

## APPENDIX D

### Other than Basic Research Grants

#### EDUCATION IN THE SCIENCES

##### ACADEMIC YEAR INSTITUTES FOR COLLEGE TEACHERS

CORNELL UNIVERSITY, Ithaca, N.Y.; C. L. Comar; 11 months; \$50,700  
UNIVERSITY OF MINNESOTA, Minneapolis; Will M. Myers, St. Paul; 10 months; \$46,300

##### ACADEMIC YEAR INSTITUTES FOR JUNIOR COLLEGE TEACHERS

UNIVERSITY OF THE PACIFIC, Stockton, Calif.; Emerson G. Cobb; 10 months; \$101,000

##### ACADEMIC YEAR INSTITUTES FOR SECONDARY SCHOOL AND COLLEGE TEACHERS

HARVARD UNIVERSITY, Cambridge, Mass.; Victor Gullemin, Jr.; \$2,470  
Victor Gullemin; 1 year; \$318,500

LOUISIANA STATE UNIVERSITY, Baton Rouge; Houston T. Karnes; 11 months; \$282,800

OHIO STATE UNIVERSITY, Columbus; John S. Richardson; 11 months; \$289,900

OKLAHOMA STATE UNIVERSITY, Stillwater; James H. Zant; 14 months; \$236,105

OREGON STATE UNIVERSITY, Corvallis; Stanley E. Williamson; 11 months; \$294,910

SYRACUSE UNIVERSITY, Syracuse, N.Y.; Alfred T. Collette; 14 months; \$287,000

Alfred T. Collette; 11 months; \$6,200

UNIVERSITY OF COLORADO, Boulder; John M. Cleveland; 11 months; \$302,900

UNIVERSITY OF ILLINOIS, Urbana; Joseph Landin; 1 year; \$310,800

UNIVERSITY OF MICHIGAN, Ann Arbor; Alfred M. Elliott; 11 months; \$284,000

UNIVERSITY OF TEXAS, Austin; Robert N. Little; 1 year; \$263,400

##### ACADEMIC YEAR INSTITUTES FOR SECONDARY SCHOOL TEACHERS

AGRICULTURAL AND MECHANICAL COLLEGE OF TEXAS, College Station; J. G. Potter; 11 months; \$189,600

AGRICULTURAL AND TECHNICAL COLLEGE OF NORTH CAROLINA, Greensboro; Gerald A. Edwards; 9 months; \$121,275

ARIZONA STATE UNIVERSITY, Tempe; Alan T. Wager; 11 months; \$278,800

ATLANTA UNIVERSITY, Atlanta, Ga.; K. A. Huggins; 11 months; \$266,800

BOSTON COLLEGE, Chestnut Hill, Mass.; Stanley J. Bezuska; 10 months; \$235,500

BOWDOIN COLLEGE, Brunswick, Maine; Reinhard L. Korgen; \$2,900

BOWLING GREEN STATE UNIVERSITY, Bowling Green, Ohio; Bruce R. Vogel; 11 months; \$199,100

BROWN UNIVERSITY, Providence, R.I.; Elmer R. Smith; 11 months; \$275,700

CORNELL UNIVERSITY, Ithaca, N.Y.; Damon Boynton; 1 year; \$251,400

FISK UNIVERSITY, Nashville, Tenn.; Myron B. Towns; 9 months; \$113,900

ILLINOIS INSTITUTE OF TECHNOLOGY, Chicago; L. R. Wilcox; 1 year; \$103,800

KANSAS STATE TEACHERS COLLEGE, Emporia; Ted F. Andrews; 1 year; \$207,800

MICHIGAN STATE UNIVERSITY, East Lansing; John M. Mason; 11 months; \$271,500

NEW MEXICO HIGHLANDS UNIVERSITY, Las Vegas; E. Gerald Meyer; 11 months; \$287,600

PENNSYLVANIA STATE UNIVERSITY, University Park; William H. Powers; 10 months; \$189,864

RUTGERS, THE STATE UNIVERSITY; New Brunswick, N.J.; Robert E. Bryan; 11 months; \$193,740

SAN DIEGO STATE COLLEGE FOUNDATION, San Diego, Calif.; Gerald A. Becker; 11 months; \$167,500

SAN JOSE STATE COLLEGE FOUNDATION, San Jose, Calif.; Leonard Feldman; 10 months; \$140,875

STANFORD UNIVERSITY, Stanford, Calif.; Harold M. Bacon; 9 months; \$288,300

STATE COLLEGE OF IOWA, Cedar Falls; Robert A. Rogers; 11 months; \$301,110

STATE UNIVERSITY OF SOUTH DAKOTA, Vermillion; Charles M. Vaughn; 11 months; \$303,400

TEMPLE UNIVERSITY, Philadelphia, Pa.; E. L. Offenbacher; 11 months; \$167,900

TEXAS WOMAN'S UNIVERSITY, Denton; Dixie Young; 11 months; \$63,400

UNIVERSITY OF DETROIT, Mich.; Lyle E. Mehlenbacher; 11 months; \$146,200

UNIVERSITY OF GEORGIA, Athens; Jonathan J. Westfall; 10 months; \$280,900

UNIVERSITY OF HAWAII, Honolulu; Michael M. Frodyma; 9 months; \$110,400

UNIVERSITY OF MISSISSIPPI, University; Noel A. Childress; 10 months; \$189,400

UNIVERSITY OF NEW MEXICO, Albuquerque; Wilson H. Ivins; 1 year; \$280,900

UNIVERSITY OF NORTH CAROLINA, Chapel Hill; E. C. Markham; 10 months; \$299,800

UNIVERSITY OF NORTH DAKOTA, Grand Forks; J. Donald Henderson; 11 months; \$254,300

UNIVERSITY OF NOTRE DAME, Notre Dame, Ind.; Arnold E. Ross; 11 months; \$258,600

UNIVERSITY OF PENNSYLVANIA, Philadelphia; J. F. Hazel; 11 months; \$271,200

UNIVERSITY OF PUERTO RICO, Rio Piedras; Mariano Garcia; 10 months; \$133,900  
 UNIVERSITY OF SOUTH CAROLINA, Columbia; W. L. Williams; 1 year; \$192,000  
 UNIVERSITY OF TENNESSEE, Knoxville; James A. Cooley; 1 year; \$147,600  
 UNIVERSITY OF UTAH, Salt Lake City; Thomas J. Parmley; 11 months; \$261,000  
 UNIVERSITY OF VIRGINIA, Charlottesville; James W. Cole, Jr.; 11 months; \$277,941  
 UNIVERSITY OF WISCONSIN, Madison; Henry Van Engen; 1 year; \$74,700  
 WASHINGTON UNIVERSITY, St. Louis, Mo.; E. U. Condon; 14 months; \$280,200  
 WESLEYAN UNIVERSITY, Middletown, Conn.; Joseph S. Daltry; 1 year; \$83,700  
 WEST VIRGINIA UNIVERSITY, Morgantown; James B. Hickman; 10 months; \$167,000

#### ADVANCED SCIENCE SEMINARS

AGRICULTURAL AND MECHANICAL COLLEGE OF TEXAS, College Station; B. C. Moore; 6 weeks; \$84,950  
 AMERICAN PHYTOPATHOLOGICAL SOCIETY, Yonkers, N.Y.; William B. Hewitt, University of California, Davis; 1 week; \$620  
 AMERICAN SOCIETY OF ZOOLOGISTS, Urbana, Ill.; Curt Stern, University of California; 1 week; \$5,060  
 BERMUDA BIOLOGICAL STATION FOR RESEARCH, INC., St. George's West, Bermuda; Keith E. Chave, Lehigh University; 6 weeks; \$8,200  
 BRANDEIS UNIVERSITY, Waltham, Mass.; Saul Barshay; 6 weeks; \$42,420  
 CARNEGIE INSTITUTE OF TECHNOLOGY, Pittsburgh, Pa.; Alan J. Perlis; \$5,620  
 FLORIDA STATE UNIVERSITY, Tallahassee; Charles R. Storey, Jr.; 8 weeks; \$38,470  
 HARVARD UNIVERSITY, Cambridge, Mass.; William Liller; 11 weeks; \$15,170  
 ILLINOIS INSTITUTE OF TECHNOLOGY, Chicago; Richard S. Hartenberg, Northwestern University; 8 weeks; \$38,700  
 NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL, Washington, D.C.; D. L. Blackstone, Jr., University of Wyoming; 16 months; \$50,000  
 NEW YORK STATE COLLEGE OF AGRICULTURE, CORNELL UNIVERSITY, Ithaca, N.Y.; W. F. Mai; 5 weeks; \$25,240  
 PENNSYLVANIA STATE UNIVERSITY, University Park; G. W. Brindley; 2 weeks; \$8,555  
 PRINCETON UNIVERSITY, Princeton, N.J.; Melvin B. Gottlieb; 6 weeks; \$48,000  
 RESEARCH FOUNDATION OF STATE UNIVERSITY OF NEW YORK, Albany; Hardy L. Shirley, Syracuse; 10 months; \$19,875  
 UNIVERSITY OF COLORADO, Boulder; Wesley E. Brittin; 16 months; \$53,710  
 UNIVERSITY OF DENVER, Denver, Colo.; William M. Mueller; Colorado Seminary; 8 weeks; \$40,545  
 UNIVERSITY OF FLORIDA, Gainesville; Per-Olov Lowdin; 9 months; \$4,000  
 Robert E. Uhrig; 8 weeks; \$35,990  
 UNIVERSITY OF HOUSTON, Houston, Tex.; Elliott I. Organick; 8 weeks; \$42,690

UNIVERSITY OF KANSAS, Lawrence; E. R. Hall; 12 weeks; \$2,000  
 G. Baley Price; 8 weeks; \$39,380  
 UNIVERSITY OF MARYLAND, College Park; Hugh D. Sisler; 6 weeks; \$56,190  
 UNIVERSITY OF NORTH CAROLINA, Chapel Hill; John W. Carr III; 1 year; \$3,000  
 UNIVERSITY OF OKLAHOMA RESEARCH INSTITUTE, Norman; William E. Bittle; 8 weeks; \$7,355  
 UNIVERSITY OF OREGON, Eugene; A. F. Mour-sund; 8 weeks; \$40,450  
 UNIVERSITY OF ROCHESTER, Rochester, N.Y.; Leonard Gillman; 8 weeks; \$40,200  
 UNIVERSITY OF SOUTHERN CALIFORNIA, Los Angeles; Jay M. Savage; 8 weeks; \$41,690  
 UNIVERSITY OF TEXAS, Austin; Howard T. Odum, Port Aransas; 2 months; \$9,000  
 VIRGINIA POLYTECHNIC INSTITUTE, Blacks-burg; James B. Eades, Jr.; \$7,500  
 C. I. Rich; 4 weeks; \$40,160  
 WOODS HOLE OCEANOGRAPHIC INSTITUTE, Woods Hole, Mass.; Melvin E. Stern; 3 months; \$30,500  
 YALE UNIVERSITY, New Haven, Conn.; Dirk Brouwer; 6 weeks; \$46,930  
 Talbot H. Waterman; 14 weeks; \$20,360

#### COORDINATED SUMMER AND IN-SERVICE INSTITUTES

ADELPHI COLLEGE, Garden City, N.Y.; H. A. Robinson; 11 months; \$111,310  
 Donald Solitar; 11 months; \$72,200  
 BOSTON COLLEGE, Chestnut Hill, Mass.; Stanley J. Bezuska; 10 months; \$74,120  
 BOWLING GREEN STATE UNIVERSITY, Bowling Green, Ohio; Bruce R. Vogel; 1 year; \$65,270  
 EAST TEXAS STATE COLLEGE, Commerce; Charles S. Rohrer; 1 year; \$93,220  
 FLORIDA STATE UNIVERSITY, Tallahassee; J. Stanley Marshall; 11 months; \$123,580  
 FORDHAM UNIVERSITY, New York, N. Y.; Charles J. Lewis; 10 months; \$72,640  
 HOWARD PAYNE COLLEGE, Brownwood, Tex.; Leonard R. Daniel; 11 months; \$56,350  
 MONTCLAIR STATE COLLEGE, Upper Mont-clair, N.J.; Max A. Sobel; 1 year; \$86,830  
 NORTH TEXAS STATE UNIVERSITY, Denton; Robert C. Sherman; 11 months; \$91,550  
 UNIVERSITY OF ALABAMA, University; Julian D. Mancill; 1 year; \$160,740  
 UNIVERSITY OF BUFFALO, Buffalo, N.Y.; Harriet F. Montague; 10 months; \$54,680  
 UNIVERSITY OF DETROIT, Detroit, Mich.; Everett L. Henderson; 11 months; \$65,720  
 Lyle E. Mehlenbacher, 1 year; \$62,950  
 UNIVERSITY OF MARYLAND, College Park; James A. Hummel and Richard A. Good; 11 months; \$52,690  
 UNIVERSITY OF NEW HAMPSHIRE, Durham; Shepley L. Ross; 11 months; \$89,180  
 UNIVERSITY OF PUERTO RICO, Mayaguez; Virgilio Biaggi, Jr.; 11 months; \$46,430  
 UNIVERSITY OF SANTA CLARA, Santa Clara, Calif.; Gerald L. Alexanderson and Irving Sussman; 11 months; \$79,300  
 UNIVERSITY OF TOLEDO, Toledo, Ohio; Archie N. Solberg; 11 months; \$74,150

WAYNE STATE UNIVERSITY, Detroit, Mich.; Karl W. Folley; 1 year; \$76,080  
WESTERN KENTUCKY STATE COLLEGE, Bowling Green; Ward C. Sumpter; 11 months; \$93,680  
WESTERN MICHIGAN UNIVERSITY, Kalamazoo; James H. Powell, 11 months; \$78,560  
WORCESTER POLYTECHNIC INSTITUTE, Worcester, Mass.; Richard F. Morton; 11 months; \$96,650

#### COOPERATIVE COLLEGE-SCHOOL SCIENCE PROGRAM

CARNEGIE INSTITUTE OF TECHNOLOGY, Pittsburgh, Pa.; E. M. Williams; 32 weeks; \$29,975  
CHAPMAN COLLEGE, Orange, Calif.; Peter Coad; 9 weeks; \$7,945  
Peter Coad; 39 weeks; \$5,695  
CLARKSON COLLEGE OF TECHNOLOGY, Potsdam, N.Y.; Robert D. Larsson; 10 weeks; \$1,400  
COLGATE UNIVERSITY, Hamilton, N.Y.; Robert E. Todd; 6 weeks; \$19,650  
COLUMBIA UNIVERSITY, New York, N.Y.; Donald Barr; 28 weeks; \$45,000  
CORNELL UNIVERSITY, Ithaca, N.Y.; Philip G. Johnson; 13 months; \$4,500  
Philip G. Johnson; 25 weeks; \$22,890  
EAST TEXAS STATE COLLEGE, Commerce, Tex.; William W. Taylor; 35 weeks; \$7,215  
FAIRMONT STATE COLLEGE, Fairmont, W. Va.; James A. LaRue, 34 weeks; \$10,730  
LOUISIANA STATE UNIVERSITY, Baton Rouge, La.; Harry J. Bennett; 5 weeks; \$22,725  
LOYOLA UNIVERSITY OF LOS ANGELES, Los Angeles, Calif.; Clarence J. Wallen; 30 weeks; \$5,490  
MANHATTAN COLLEGE, New York, N.Y.; C. Leonard O'Connor; 30 weeks; \$12,810  
MILLARD FILLMORE RESEARCH INSTITUTE, Buffalo, N.Y.; Elemer R. Gabrieli; 8 weeks; \$1,375  
NATIONAL CHILDREN'S CARDIAC HOSPITAL, Miami, Fla.; Milton S. Saslaw; 32 weeks; \$11,625  
NEW ENGLAND COLLEGE, Henniker, N.H.; Harold C. Downes; 20 weeks; \$4,600  
NEW YORK UNIVERSITY, New York; Alfred Perlmutter; 6 weeks; \$18,220  
NORTH DAKOTA STATE UNIVERSITY, Fargo; Donald Schwartz; 36 weeks; \$2,260  
NORTHEAST MISSOURI STATE TEACHERS COLLEGE, Kirksville; Dean A. Rosebery; 9 weeks; \$18,600  
OKLAHOMA STATE UNIVERSITY, Stillwater; Robert C. Fite; 8 weeks; \$27,500  
ST. CLOUD STATE COLLEGE, St. Cloud, Minn.; Philip Youngner; 5 weeks; \$25,165  
ST. JOHN'S UNIVERSITY, Jamaica, N.Y.; Vincent E. Smith; 34 weeks; \$13,515  
UNIVERSITY OF BUFFALO, Buffalo, N.Y.; Joseph G. Hoffman; 46 weeks; \$28,190  
UNIVERSITY OF MIAMI, Coral Gables, Fla.; Herman Meyer; 32 weeks; \$9,915  
UNIVERSITY OF NORTH CAROLINA, Chapel Hill; W. A. Reid, Raleigh; 6 weeks; \$22,945  
UNIVERSITY OF PITTSBURGH, Pittsburgh, Pa.; John R. Jablonski; 52 weeks; \$32,735

UNIVERSITY OF PUERTO RICO, Rio Piedras; Mariano Garcia; 36 weeks; \$5,660  
UNIVERSITY OF RHODE ISLAND, Kingston; James E. Casey; 22 weeks; \$12,405  
UNIVERSITY OF VIRGINIA, Charlottesville; A. R. Kubithau; 8 weeks; \$8,275  
Bart van't Riet; 4 months; \$18,372  
VIRGINIA STATE COLLEGE, Petersburg; Paul L. Brown, Norfolk; 6 weeks; \$17,550  
WALDEMAR MEDICAL RESEARCH FOUNDATION, Port Washington, N.Y.; Norman Molomut; 16 weeks; \$9,560  
Norman Molomut; 8 weeks; \$22,110

WESTERN MICHIGAN UNIVERSITY, Kalamazoo; George G. Mallinson; 30 weeks; \$7,370  
WEST VIRGINIA WESLEYAN COLLEGE, Buckhannon; John C. Wright; 5 weeks; \$19,100

#### COURSE CONTENT STUDIES AND DEVELOPMENT

AMERICAN ANTHROPOLOGICAL ASSOCIATION, Washington, D.C.; Malcolm Collier, University of Chicago; *A Project for the Development of the Educational Potential of Anthropology in the High Schools*; 2 years; \$59,950  
AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, Washington, D.C.; John R. Mayor; *The Development of Science Teaching Materials for the Elementary and Junior High School Grades*; 8 months; \$125,000  
William P. Viall; *Regional Conferences of School Administrators of New Science Curricula*; 1 year; \$106,800  
AMERICAN ASSOCIATION OF PHYSICS TEACHERS, Greencastle, Ind.; Malcolm Correll; *Review Conference on The Commission on College Physics*; 1 year; \$21,665  
AMERICAN INSTITUTE OF BIOLOGICAL SCIENCES, Washington, D.C.; H. Bentley Glass; *Secondary-School Program of The Biological Sciences Curriculum Study*; 1 year; \$2,022,600  
AMERICAN SOCIETY FOR ENGINEERING EDUCATION, Newark, N.J.; Joseph A. Pask, University of California; *A Study of Objective Criteria in Ceramic Engineering Education*; 1 year; \$29,000  
BRYN MAWR COLLEGE, Bryn Mawr, Pa.; Walter C. Michels; *Commission on College Physics*; 1 year; \$125,900  
CARLETON COLLEGE, Northfield, Minn.; Kenneth O. May; *Experimental Pregraduate Training Program in Mathematics*; 4 years; \$28,750  
CASE INSTITUTE OF TECHNOLOGY, Cleveland, Ohio; James B. Reswick; *Development of Dynamics Course Using Analog Computers*; 1 year; \$30,000  
CLARKSON COLLEGE OF TECHNOLOGY, Potsdam, N.Y.; Hilbert Schenck, Jr.; *Development of Apparatus and Instructional Methods for an "Interdisciplinary Laboratory to Teach Experimentation in Engineering"*; 1 year; \$19,090  
COLUMBIA UNIVERSITY, New York, N.Y.; Howard Levi; *Development of a New Course in Analysis for College Freshmen*; 10 months; \$9,090  
Howard Levi; *Development of a New Course in Analysis for College Freshmen*; \$3,510

CORNELL UNIVERSITY, Ithaca, N.Y.; R. J. Walker; *Experimental Teaching Program in Algebra*; 1 year; \$13,960

EDUCATIONAL SERVICES INC., Watertown, Mass.; Paul F. Chenea, Purdue University; *The Central Office Activities of the Commission on Engineering Education*; 1 year; \$87,300

Uri Haber-Schalm; *Extension of the Physical Science Study Committee Physics Course for Use in Colleges and Junior Colleges*; 1 year; \$141,000

Phillip Morrison, Cornell University; *Elementary School Science Curriculum Project*; 1 year; \$298,200

Campbell L. Searle, Massachusetts Institute of Technology; *Semiconductor Electronics Education Committee*; 1 year; \$126,800

Jerrold R. Zacharias; *Development of Alternate Battery of PSSC Tests*; 18 months; \$60,150

Jerrold R. Zacharias, Massachusetts Institute of Technology; *The Accumulation and Analysis of Feedback for the PSSC Course*; 1 year; \$40,500

FORDHAM UNIVERSITY, New York, N.Y.; Charles J. Lewis; *Development of a New Set of Courses in Mathematics and Physics*; 2 years; \$25,260

HARVEY MUDD COLLEGE, Claremont, Calif.; Joseph B. Platt; *Engineering Course Experimentation*; 1 year; \$32,660

MASSACHUSETTS INSTITUTE OF TECHNOLOGY, Cambridge; Kurt S. Llon; *Development Program for a Laboratory Course in Instrumentation*; 1 year; \$27,680

MATHEMATICAL ASSOCIATION OF AMERICA, Buffalo, N.Y.; R. C. Buck, University of Wisconsin; *Committee on the Undergraduate Program in Mathematics*; 2 years; \$126,500

MICHIGAN STATE UNIVERSITY, East Lansing; Robert G. Hoopes; *Undergraduate Science for the Non-Science Major*; 9 months; \$28,630

MINNESOTA ACADEMY OF SCIENCE, Austin; Paul C. Rosenbloom; *Study of Secondary-School Mathematics Curricula*; 2 years; \$187,730

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL, Washington, D.C.; H. Burr Steinbach; *Committee on Educational Policies in Agriculture*; 3 years; \$90,000

NATIONAL COUNCIL OF TEACHERS OF MATHEMATICS, Washington, D.C.; Frank B. Allen, Lyons Township High School, La Grange, Ill.; *Regional Conferences of School Supervisors of the New Curriculum in Mathematics*; 1 year; \$8,490

NEW MEXICO STATE UNIVERSITY, University Park; Ralph Crouch; *Development of Course in the Number System for Elementary School Teachers*; 16 mos; \$34,060

PURDUE UNIVERSITY, Lafayette, Ind.; Raymond Cohen; *Development of Prototype Equipment for a Modern Undergraduate Mechanical Engineering Measurement Laboratory*; 18 months; \$27,610

P. W. McFadden; *Development of Prototype Equipment for a Typical Undergraduate Heat and Mass Transfer Laboratory*; 1 year; \$18,380

STANFORD UNIVERSITY, Stanford, Calif.; E. G. Begle; *The School Mathematics Study Group*; 2 years; \$1,216,880

STATE COLLEGE OF IOWA, Cedar Falls; E. Glenadine Gibb; *Development of Teacher Training Materials in Mathematics*; 10 months; \$5,000

TULANE UNIVERSITY, New Orleans, La.; A. D. Wallace; *Development of New Undergraduate Courses in Mathematics*; 1 year; \$25,760

UNIVERSITY OF CALIFORNIA, Berkeley; David G. Mandelbaum; *Educational Resources in Anthropology Project*; \$13,840

George C. Pimentel; *Chemical Education Material Study*; 22 months; \$961,110

Robert C. Stebbins; *Elementary-School Science Project*; 2 years; \$169,560

UNIVERSITY OF ILLINOIS, Urbana; J. Myron Atkin and Stanley P. Wyatt, Jr.; *Elementary-School Science Course Content Improvement Project*; 3 years; \$319,300

Max Beberman; *University of Illinois Committee on School Mathematics*; 1 year \$385,820

H. A. Laitinen; *Development of Modern Undergraduate Analytical Chemistry Course*; 3 years; \$43,130

UNIVERSITY OF KANSAS, Lawrence; G. Baley Price; *Development of Courses on Probability, Matrices, and Calculus*; 2 years; \$71,600

UNIVERSITY OF MARYLAND, College Park; John R. Mayor; *Development of a New Course in Mathematics for Prospective Elementary School Teachers*; 3 years; \$65,710

UNIVERSITY OF MICHIGAN, Ann Arbor; H. R. Crane; *Two Conferences on Curricula for Undergraduate Majors in Physics*; 1 year; \$24,100

E. Wendell Hewson; *Development of a Course in Computer Applications in the Atmospheric Sciences*; 26 months; \$42,100

UNIVERSITY OF PENNSYLVANIA, Philadelphia; Charles C. Price; *Commission for College Chemistry*; 2 years; \$48,220

UNIVERSITY OF WICHITA, Wichita, Kans.; Robert Schrag; *Development of an Undergraduate Course in Field and Flow Systems*; 15 months; \$15,350

WEBSTER COLLEGE, Webster Groves, Mo.; Robert B. Davis; *Development of Materials for Elementary Mathematics*; 1 year; \$43,360

## DEVELOPMENTAL PROGRAM

AMERICAN ASTRONOMICAL SOCIETY, Princeton, N.J.; Frank K. Edmondson; *Conference on Graduate Education in Astronomy*; 2 days; \$12,390

REED COLLEGE, Portland, Ore.; Arthur F. Scott; *Summer Program in Inorganic Chemistry*; 8 weeks; \$55,900

UNIVERSITY OF OKLAHOMA, Norman; Walter J. Saucier; *Training Program in Meteorology*; 3 years; \$43,680

## FOREIGN PARTICIPATION

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, Washington, D.C.; John Mayor; 1 year; \$70,000

AMERICAN ASTRONOMICAL SOCIETY, Princeton, N.J.; Thornton Page; 3 years; \$86,625

AMERICAN INSTITUTE OF BIOLOGICAL SCIENCES, Washington, D.C.; Hiden T. Cox; 30 months; \$101,020

SYRACUSE UNIVERSITY, Syracuse, N.Y.; Alfred T. Collette; 10 weeks; \$12,100

#### IN-SERVICE INSTITUTE FOR ELEMENTARY SCHOOL TEACHERS

AMERICAN MUSEUM OF NATURAL HISTORY, New York, N.Y.; Franklyn M. Branley; 4 months; \$2,980

ALAMEDA COUNTY STATE COLLEGE AUXILIARY ENTERPRISES, INC., Hayward, Calif.; John D. Hancock; 9 months; \$7,430

BUCKNELL UNIVERSITY, Lewisburg, Pa.; Lester Kleft; 9 months \$6,250

CALVIN COLLEGE, Grand Rapids, Mich.; Carl J. Sinke; 9 months; \$3,940

COLORADO COLLEGE, Colorado Springs; Richard G. Beidleman; 9 months; \$5,080

DOMINICAN COLLEGE OF SAN RAFAEL, San Rafael, Calif.; Mary Augusta; 8 months; \$4,460

FLORIDA STATE UNIVERSITY, Tallahassee; Eugene D. Nichols; 8 months; \$7,090

FONTBONNE COLLEGE, St. Louis, Mo.; Mary Teresine Lewis; 8 months; \$4,600

GENERAL EXTENSION DIVISION, OREGON STATE SYSTEM OF HIGHER EDUCATION, Portland; J. Richard Byrne, Portland State College; 9 months; \$4,430

HUMBOLDT STATE COLLEGE FOUNDATION, Arcata, Calif.; Orval M. Klose; 9 months; \$7,230

INDIANA STATE COLLEGE, Terre Haute; John C. Hook; 9 months, \$6,520

KANSAS STATE TEACHERS COLLEGE, Emporia; Ted F. Andrews; 9 months; \$8,150

NORTHEAST MISSOURI STATE TEACHERS COLLEGE, Kirksville; Dean A. Rosebery; 9 months; \$5,830

NORTHEASTERN UNIVERSITY, Boston, Mass.; Benjamin C. Friedrich; 9 months; \$7,090

OKLAHOMA STATE UNIVERSITY, Stillwater; Claude W. Gatewood; 9 months; \$6,490

OREGON COLLEGE OF EDUCATION, Monmouth; Ernie L. Cummins; 9 months; \$5,250

RESEARCH FOUNDATION OF STATE UNIVERSITY OF NEW YORK, Albany; Emery L. Will, Oneonta; 9 months; \$5,400

RHODE ISLAND COLLEGE, Providence; Renato E. Leonelli; 9 months; \$5,600

SACRAMENTO STATE COLLEGE FOUNDATION, Sacramento, Calif.; H. Stewart Moredock; 9 months; \$6,060

ST. AUGUSTINE'S COLLEGE, Raleigh, N.C.; Prezell R. Robinson; 9 months; \$5,930

ST. MARY'S COLLEGE OF CALIFORNIA, St. Mary's College; T. Brendan; 9 months; \$4,790

ST. PAUL'S COLLEGE, Lawrenceville, Va.; M. Boyd Jones; 9 months; \$4,800

SAN FERNANDO VALLEY STATE COLLEGE FOUNDATION, Northridge, Calif.; Marion Bickford; 9 months; \$8,440

SAN JOSE STATE COLLEGE FOUNDATION, San Jose, Calif.; W. H. Myers; 9 months; \$6,240

SOUTHEASTERN STATE COLLEGE, Durant, Okla.; Leslie A. Dwight; 9 months; \$6,300

STATE COLLEGE OF IOWA, Cedar Falls; E. Glenadine Gibb; \$765

STATE UNIVERSITY OF IOWA, Iowa City; T. R. Porter; 7 months; \$6,340

STATE UNIVERSITY OF SOUTH DAKOTA, Vermillion; Theodore L. Reid; 9 months; \$13,210

TEMPLE UNIVERSITY, Philadelphia, Pa.; Herman C. Kranzer; 10 months; \$6,030

UNIVERSITY OF AKRON, Akron, Ohio; Alfred H. Johnson; 9 months; \$5,780

UNIVERSITY OF ARIZONA, Tucson; Arthur H. Steinbrenner; 9 months; \$5,500

UNIVERSITY OF CALIFORNIA, Berkeley; Clifford Bell, Los Angeles; 8 months; \$6,650

UNIVERSITY OF COLORADO, Boulder; James R. Wailes; 8 months; \$5,820

UNIVERSITY OF DETROIT, Detroit, Mich.; Lyle E. Mehlenbacher; 9 months; \$6,170

UNIVERSITY OF PUERTO RICO, Rio Piedras; Mariano Garcia; 9 months; \$5,880

VIRGINIA STATE COLLEGE, Petersburg; Richard H. Dunn; 9 months; \$6,190

#### IN-SERVICE INSTITUTE FOR JUNIOR HIGH SCHOOL TEACHERS

KNOX COLLEGE, Galesburg, Ill.; Rothwell Stephens; 9 months; \$9,000

MANCHESTER COLLEGE, North Manchester, Ind.; Harry R. Welmer; 8 months; \$9,850

RICKER COLLEGE, Houlton, Maine; Robert B. Maxwell; 9 months; \$9,300

UNIVERSITY OF WISCONSIN, Madison; Louis F. McAuley; 7 months; \$41,340

#### IN-SERVICE INSTITUTE FOR SECONDARY AND ELEMENTARY SCHOOL TEACHERS

MILES COLLEGE, Birmingham, Ala.; James S. Sutton; 9 months; \$8,730

UNIVERSITY OF FLORIDA, Gainesville; Kenneth P. Kidd; 10 months; \$14,520

UNIVERSITY OF HAWAII, Honolulu; Michael M. Frodyma; 9 months; \$11,720

Michael M. Frodyma; 8 months; \$17,340

#### IN-SERVICE INSTITUTE FOR SECONDARY SCHOOL TEACHERS

AGRICULTURE AND MECHANICAL COLLEGE OF TEXAS, College Station; Edmund C. Klipple; 9 months; \$5,890

Melvin C. Schroeder; 9 months; \$9,530

AGRICULTURAL AND TECHNICAL COLLEGE OF NORTH CAROLINA, Greensboro; George C. Royal, Jr.; 9 months; \$9,130

ALAMEDA COUNTY STATE COLLEGE AUXILIARY ENTERPRISES, INC., Hayward, Calif.; C. T. Purvis; 9 months; \$6,790

ALBANY STATE COLLEGE, Albany, Ga.; William E. Johnson, Jr.; 9 months; \$17,870

ALBERTUS MAGNUS COLLEGE, New Haven, Conn.; Florence D. Jacobson; 8 months; \$14,850

ALBRIGHT COLLEGE, Reading, Pa.; Richard J. Kohnmeyer; 9 months; \$6,250

ALLEGHENY COLLEGE, Meadville, Pa.; Richard L. Brown; 6 months; \$3,600

ALVERNO COLLEGE, Milwaukee, Wis.; M. Providencia; 9 months; \$4,170

**AMERICAN UNIVERSITY, Washington, D.C.;** Leo Schubert; 9 months; \$2,460  
 Leo Schubert; 9 months; \$22,830  
**ANDREWS UNIVERSITY, Berrien Springs, Mich.;** Harold T. Jones; 8 months; \$400  
**ANTIOCH COLLEGE, Yellow Springs, Ohio;** James F. Corwin; 10 months; \$9,280  
**ARIZONA STATE UNIVERSITY, Tempe;** Ernest E. Snyder; 9 months; \$12,180  
 Alan T. Wager; 9 months; \$6,940  
**ARKANSAS STATE TEACHERS COLLEGE, Conway;** Neal D. Buffaloe; 9 months; \$7,330  
 O. L. Hughes; 9 months; \$7,000  
**AUSTIN PEAY STATE COLLEGE, Clarksville, Tenn.;** Haskell C. Phillips; 9 months; \$9,110  
**BALDWIN-WALLACE COLLEGE, Berea, Ohio;** Dean L. Robb; 9 months; \$5,990  
**BEMIDJI STATE COLLEGE, Bemidji, Minn.;** W. Richard Slinkman; \$520  
 W. Richard Slinkman; 9 months; \$17,130  
**BISHOP COLLEGE, Dallas, Tex.;** V. N. Athavale; 9 months; \$16,660  
**BOSTON COLLEGE, Chestnut Hill, Mass.;** William G. Guindon; 9 months; \$5,950  
 William G. Guindon; 9 months; \$1,630  
**BOWLING GREEN STATE UNIVERSITY, Bowling Green, Ohio;** W. H. Hall; 9 months; \$13,130  
**BROOKLYN COLLEGE, Brooklyn, N.Y.;** Meyer Jordan; 9 months; \$6,870  
**BROWN UNIVERSITY, Providence, R.I.;** Charles B. MacKay; 9 months; \$6,220  
 Charles B. MacKay; 9 months; \$7,200  
**BUCKNELL UNIVERSITY, Lewisburg, Pa.;** William K. Smith; 9 months; \$5,820  
**BUTLER UNIVERSITY, Indianapolis, Ind.;** Harry E. Crull; 9 months; \$12,520  
**CALIFORNIA STATE COLLEGE, California, Pa.;** A. H. Anderson; 9 months; \$14,250  
**CALVIN COLLEGE, Grand Rapids, Mich.;** Carl J. Sinke; 9 months; \$7,570  
**CATHOLIC UNIVERSITY OF PUERTO RICO, Ponce, P.R.;** Joseph Frohnhoefer; 10 months; \$8,820  
**CENTRAL MICHIGAN UNIVERSITY, Mount Pleasant;** Malcolm H. Filson; 10 months; \$10,290  
 Wilbur Waggoner; 9 months; \$22,560  
**CENTRAL STATE COLLEGE, Edmond, Okla.;** Earl C. Rice; 9 months; \$10,550  
**CITY COLLEGE, New York, N.Y.;** Sherburne F. Barber; 9 months; \$7,430  
 Alexander Joseph; 9 months; \$9,800  
 Chester B. Kremer; 9 months; \$11,380  
 W. I. Pearman; \$780  
**CLEMSON COLLEGE, Clemson, S.C.;** J. Harvey Hobson; 9 months; \$10,070  
**COLLEGE OF THE HOLY CROSS, Worcester, Mass.;** John W. Flavin; 8 months; \$6,200  
 Robert B. MacDonnell; 8 months; \$6,390  
 Vincent O. McBrien; 8 months; \$6,760  
**COLLEGE OF IDAHO, Caldwell;** Boyd H. Henry; 9 months; \$9,690  
**COLORADO SCHOOL OF MINES, Golden;** James L. Hall; 9 months; \$7,730  
**COLORADO STATE COLLEGE, Greeley;** Albert J. Hendricks, Jr.; 8 months; \$9,830  
**CONNECTICUT COLLEGE, New London;** Alice T. Schafer; 8 months; \$5,230  
**DARTMOUTH COLLEGE, Hanover, N.H.;** Charles J. Lyon; 5 months; \$1,320  
 Charles J. Lyon; 7 months; \$7,500  
**DEPAUL UNIVERSITY, Chicago, Ill.;** Willis B. Caton; 9 months; \$13,920  
**DOMINICAN COLLEGE OF SAN RAFAEL, San Rafael, Calif.;** Mary Augusta; 8 months; \$15,930  
**DRAKE UNIVERSITY, Des Moines, Iowa;** Earle L. Canfield; 9 months; \$15,870  
**DREW UNIVERSITY, Madison, N.J.;** Robert K. Zuck; 5 months; \$4,990  
**EARLHAM COLLEGE, Richmond, Indiana;** Roland F. Smith; 9 months; \$1,590  
 Roland F. Smith; 9 months; \$6,020  
**EAST TEXAS STATE COLLEGE, Commerce;** Arthur M. Pullen; 9 months; \$6,820  
**EASTERN NAZARENE COLLEGE, Wollaston, Mass.;** W. Lloyd Taylor; 9 months; \$13,470  
**EMORY AND HENRY COLLEGE, Emory, Va.;** George M. Speed; 9 months; \$5,830  
**EMORY UNIVERSITY, Atlanta, Ga.;** Charles T. Lester; 7 months; \$13,990  
**FAIRFIELD UNIVERSITY, Fairfield, Conn.;** John A. Barone; 9 months; \$12,220  
**FAIRLEIGH DICKINSON UNIVERSITY, Rutherford, N.J.;** Harold Weinberger; 8 months; \$9,600  
 Delores E. Keller, Teaneck; 8 months; \$9,720  
**FENN COLLEGE, Cleveland, Ohio;** Walter R. Van Voorhis; 8 months; \$11,060  
**FLORIDA STATE UNIVERSITY, Tallahassee;** J. Stanley Marshall; 15 months; \$12,560  
 J. Stanley Marshall; 10 months; \$18,310  
 J. Stanley Marshall; 10 months; \$8,520  
**FORT HAYS KANSAS STATE COLLEGE, Hays;** W. Toalson; 9 months; \$7,700  
**FRANKLIN & MARSHALL COLLEGE, Lancaster, Pa.;** John H. Moss; 9 months; \$9,620  
**FRESNO STATE COLLEGE FOUNDATION, Fresno, Calif.;** Fred A. Scott; 9 months; \$7,590  
**GENERAL EXTENSION DIVISION, OREGON STATE SYSTEM OF HIGHER EDUCATION, Portland;** J. Richard Byrne, Portland State College; 8 months; \$4,840  
**GEORGE WASHINGTON UNIVERSITY, Washington, D.C.;** Charles R. Naeser; 9 months; \$4,500  
**GEORGETOWN UNIVERSITY, Washington, D.C.;** Matthew P. Theakara; 9 months; \$10,150  
**GEORGIA SOUTHERN COLLEGE, Statesboro;** Burton J. Bogitsh; 9 months; \$6,540  
**GLASSBORO STATE COLLEGE, Glassboro, N.J.;** Warren G. Roome; 9 months; \$13,680  
 Murl C. Shawver; 9 months; \$8,390  
**HAMPTON INSTITUTE, Hampton, Va.;** Victor H. Fields; 8 months; \$13,590  
**HOBART & WILLIAM SMITH COLLEGES, Geneva, N.Y.;** Robert L. Beinert; 8 months; \$550  
 Robert L. Beinert; 8 months; \$5,100  
**HOLY NAMES COLLEGE, Spokane, Wash.;** M. Eugene Gautreaux; 7 months; \$12,700  
**HUMBOLDT STATE COLLEGE FOUNDATION, Arcata, Calif.;** Henry S. Tropp; 9 months; \$8,550  
**IDAHO ACADEMY OF SCIENCE, Boise;** J. B. Spulnik, Boise Junior College; 9 months; \$5,160

Merle R. Fisher, Ricks College; 9 months; \$31,770

ILLINOIS INSTITUTE OF TECHNOLOGY, Chicago; Halm Reingold; 9 months; \$78,650

IMMACULATE HEART COLLEGE, Los Angeles, Calif.; Eugene T. Spain; 8 months; \$5,570

INCARNATE WORD COLLEGE, San Antonio, Tex.; Sister Joseph Marie; 9 months; \$11,050

INTER AMERICAN UNIVERSITY OF PUERTO RICO, San German, Puerto Rico; Ismael Velez; 8 months; \$18,290

IONA COLLEGE, New Rochelle, N.Y.; George S. Pappas; 9 months; \$8,030

JACKSONVILLE STATE COLLEGE, Jacksonville, Ala.; Newbern W. Bush; 9 months; \$7,850

KANSAS STATE COLLEGE OF PITTSBURG; R. G. Smith; 9 months; \$18,500  
R. G. Smith; 9 months; \$9,700

KANSAS STATE TEACHERS COLLEGE, Emporia; Ted F. Andrews; 9 months; \$25,590

KENT STATE UNIVERSITY, Kent, Ohio; Kenneth B. Cummins; 9 months; \$8,390

KNOX COLLEGE, Galesburg, Ill.; Paul Shepard; 8 months; \$7,390

KNOXVILLE COLLEGE, Knoxville, Tenn.; Robert H. Harvey; 8 months; \$11,880

LAFAYETTE COLLEGE, Easton, Pa.; B. E. Rhoades; 9 months; \$5,780

LAKE FOREST COLLEGE, Lake Forest, Ill.; John W. Coutts; 9 months; \$7,870

LE MOYNE COLLEGE, Memphis, Tenn.; W. W. Gibson; 9 months; \$14,450

LEWIS & CLARK COLLEGE, Portland, Ore.; Elvy L. Fredrickson; 9 months; \$5,370

LONG BEACH STATE COLLEGE FOUNDATION, Long Beach, Calif.; John J. Baird; 9 months; \$11,750

LOUISIANA STATE UNIVERSITY, Baton Rouge; Dennis M. Nead, New Orleans; 8 months; \$10,430

LOYOLA UNIVERSITY, New Orleans, La.; F. A. Benedetto; 9 months; \$8,040  
H. R. Jolley; 9 months; \$9,700  
John F. Keller; 9 months; \$13,600

MADISON COLLEGE, Harrisonburg, Va.; J. Emmert Ikenberry; 9 months; \$5,610

MANHATTAN COLLEGE, New York, N.Y.; Arthur B. Kemper; 8 months; \$9,940  
Luke V. Titone; 9 months; \$11,870  
B. Alfred Welch; 9 months; \$11,500

MARQUETTE UNIVERSITY, Milwaukee, Wis.; Arthur G. Barkow; 8 months; \$6,050  
Miriam E. Connellan; 9 months; \$4,110

MARYLHURST COLLEGE, Marylhurst, Ore.; Sister M. Loretta Ann; 8 months; \$5,500

MCNEESE STATE COLLEGE, Lake Charles, La.; S. M. Spencer; 9 months; \$9,930

MEMPHIS STATE UNIVERSITY, Memphis, Tenn.; R. W. Johnson; 9 months; \$5,320  
F. B. Schirmer, Jr.; 9 months; \$8,740

MIDDLE TENNESSEE STATE COLLEGE, Murfreesboro; J. Eldred Wiser; 9 months; \$6,320

MILLERSVILLE STATE COLLEGE, Millersville, Pa.; William B. McIlwaine; 9 months; \$6,960

MISSISSIPPI COLLEGE, Clinton; Archie H. Germany; 9 months; \$15,740

MISSISSIPPI SOUTHERN COLLEGE, Hattiesburg; Virginia Felder; 9 months; \$10,820

MISSISSIPPI STATE UNIVERSITY, State College; R. D. Boswell, Jr.; 9 months; \$9,620

MONTANA STATE UNIVERSITY, Missoula; James W. Gebhart; \$1,200

MOREHEAD STATE COLLEGE, Morehead, Ky.; William B. Owsley; 9 months; \$7,620

MOUNT MERCY COLLEGE, Pittsburgh, Pa.; Sister M. Michael; 8 months; \$6,060  
William A. Urlicchio; 8 months; \$6,760

MUNICIPAL UNIVERSITY OF OMAHA, Omaha, Nebr.; Merle E. Brooks; 9 months; \$27,930

MURRAY STATE COLLEGE FOUNDATION, Murray, Ky.; Alfred M. Wolfson; 9 months; \$6,370

NEBRASKA WESLEYAN UNIVERSITY, Lincoln; Walter R. French, Jr.; 9 months; \$7,840

NEWARK COLLEGE OF ENGINEERING RESEARCH FOUNDATION, Newark, N.J.; Herbert Barkan; 9 months; \$9,220  
John Bishop; 9 months; \$4,430  
Paul O. Hoffmann; 9 months; \$7,910

NEW YORK STATE SOCIETY FOR MEDICAL RESEARCH, INC., New York; Albert S. Kuperman, Cornell University Medical College; 9 months; \$8,450.

NEW YORK UNIVERSITY, New York; Morris Kline; 9 months; \$9,630  
Elwood J. Winters; 8 months; \$16,250

NORTH CAROLINA COLLEGE at Durham; William H. Robinson; 9 months; \$18,350

NORTH DAKOTA STATE UNIVERSITY, Fargo; Joel W. Broberg; 9 months; \$23,390

NORTHEAST LOUISIANA STATE COLLEGE, Monroe; Daniel E. Dupree; 9 months; \$12,070

NORTHEAST MISSOURI STATE TEACHERS COLLEGE, Kirksville; Dean A. Rosebery; 9 months; \$16,310

NORTHERN MICHIGAN COLLEGE, Marquette; W. James Merry; 8 months; \$10,300

NORTHLAND COLLEGE, Ashland, Wis.; Louis J. Kolonko; 9 months, \$14,640

NORTHWESTERN STATE COLLEGE, Alva, Okla.; Joe W. Melton; 9 months; \$6,370

NORTHWESTERN UNIVERSITY, Evanston, Ill.; E. H. C. Hildebrandt; 9 months; \$11,520

NORWICH UNIVERSITY, Northfield, Vt.; Edward A. Race; 8 months; \$3,700

OHIO STATE UNIVERSITY, Columbus; William R. Riley; 9 months; \$10,370

OHIO UNIVERSITY, Athens; W. T. Fishback; 8 months; \$5,080

OREGON STATE UNIVERSITY, Corvallis; Fred W. Decker; 9 months; \$5,460  
Albert R. Poole; 9 months; \$3,920

PACE COLLEGE, New York, N.Y.; Edward Ritter; 9 months; \$14,150

PENNSYLVANIA STATE UNIVERSITY, University Park; William H. Powers; 10 months; \$41,540

PRAIRIE VIEW AGRICULTURAL & MECHANICAL COLLEGE, Prairie View, Tex.; E. E. O'Banion; 9 months; \$18,410

PURDUE UNIVERSITY, Lafayette, Ind.; C. J. Goodnight; 9 months; \$31,330  
M. Wiles Keller; 9 months; \$41,940

REED COLLEGE, Portland, Ore.; Arthur F. Scott; 9 months; \$16,070

RESEARCH FOUNDATION OF STATE UNIVERSITY OF NEW YORK, Albany; Daniel W. Snader, Fredonia; 9 months; \$11,470

RESEARCH FOUNDATION OF THE UNIVERSITY OF TOLEDO, Toledo, Ohio; Archie N. Solberg; 9 months; \$1,550

RHODE ISLAND COLLEGE, Providence; Stanley M. Trail; 9 months; \$7,810

ROCKFORD COLLEGE, Rockford, Ill.; John A. Schumaker; 9 months; \$6,300

ROCKHURST COLLEGE, Kansas City, Mo.; William C. Doyle; 9 months; \$7,850

RUTGERS, THE STATE UNIVERSITY, New Brunswick, N.J.; Orhan H. Alisbah, Camden; 9 months; \$9,400  
Westervelt Griffin; 9 months; \$5,850

SACRAMENTO STATE COLLEGE FOUNDATION, Sacramento, Calif.; Stanley P. Hughart; 9 months; \$20,810

ST. AUGUSTINE'S COLLEGE, Raleigh, N.C.; Jeffery Gipson; 8 months; \$5,440

ST. CLOUD STATE COLLEGE, St. Cloud, Minn.; Harold Hopkins; 9 months; \$5,420

ST. FRANCIS COLLEGE, Loretto, Pa.; Lawrence V. Plon; 8 months; \$5,080

ST. JOSEPH'S COLLEGE, West Hartford, Conn.; Maria Clare Markham; 9 months; \$15,280

ST. LOUIS UNIVERSITY, St. Louis, Mo.; John J. Andrews; 9 months; \$7,650

ST. MARTIN'S COLLEGE, Olympia, Wash.; John Raymond; 8 months; \$8,810

ST. PETER'S COLLEGE, Jersey City, N.J.; Perry Y. Jackson; 9 months; \$7,610  
Francis A. Varrichio; 9 months; \$8,330

SAN DIEGO STATE COLLEGE FOUNDATION, San Diego, Calif.; Donald I. Eldemiller; 10 months; \$12,200  
Margaret F. Willerding; 9 months; \$24,510

SAN JOSE STATE COLLEGE FOUNDATION, San Jose, Calif.; Robert E. Arnal; 9 months; \$6,260  
Max Kramer; 9 months; \$18,530  
Laurence E. Wilson; 9 months; \$12,650

SARAH LAWRENCE COLLEGE, Bronxville, N.Y.; Edward J. Cogan; 8 months; \$23,730

SHORTER COLLEGE, Rome, Ga.; James S. Lee; 9 months; \$13,510

SOUTH CAROLINA STATE COLLEGE, Orangeburg; George W. Hunter; 9 months; \$30,480

SOUTHEASTERN STATE COLLEGE, Durant, Okla.; Leslie A. Dwight; 9 months; \$3,780  
Ernest Sturch, Jr.; 9 months; \$5,600

SOUTHERN METHODIST UNIVERSITY, Dallas, Tex.; Joe P. Harris, Jr.; 9 months; \$8,170

SOUTHWESTERN AT MEMPHIS, Memphis, Tenn.; Jack U. Russell; 9 months; \$8,540  
Arlo I. Smith; 9 months; \$7,140

STATE COLLEGE AT SALEM, Salem, Mass.; Thomas I. Ryan; 8 months; \$11,960

STATE UNIVERSITY OF IOWA, IOWA CITY; Robert E. Yager; 8 months; \$16,090

STATE UNIVERSITY OF SOUTH DAKOTA, Vermillion; Theodore L. Reid; 9 months; \$27,510

STETSON UNIVERSITY, De Land, Fla.; Gene W. Medlin; 9 months; \$2,980

STEVENS INSTITUTE OF TECHNOLOGY, Hoboken, N.J.; Robert H. Seavy; 9 months; \$14,180

STONEHILL COLLEGE, North Easton, Mass.; Thomas E. Lockary; 8 months; \$10,120

TALLADEGA COLLEGE, Talladega, Ala.; Cohen T. Simpson; 7 months; \$2,000  
Cohen T. Simpson; 7 months; \$12,030

TEACHERS COLLEGE, COLUMBIA UNIVERSITY, New York, N.Y.; Howard F. Fehr; 9 months; \$12,400

TEMPLE UNIVERSITY, Philadelphia, Pa.; Leonard Muldawer; 9 months; \$20,030

TENNESSEE AGRICULTURAL & INDUSTRIAL STATE UNIVERSITY, Nashville; William N. Jackson; 9 months; \$18,040

TEXAS WOMAN'S UNIVERSITY, Denton, Tex.; Harold T. Baker; 9 months; \$6,060  
Harlan C. Miller; 9 months; \$6,680

TRENTON STATE COLLEGE, Trenton, N.J.; Victor L. Crowell; 10 months; \$9,240

UNION COLLEGE & UNIVERSITY, Schenectady, N.Y.; C. W. Graves; 9 months; \$17,400

UNIVERSITY OF AKRON, Akron, Ohio; Mabel W. Riedinger; 9 months; \$1,010  
Mabel M. Riedinger; 9 months; \$8,600

UNIVERSITY OF ARIZONA, Tucson; Robert W. Hoshaw; 9 months; \$11,340  
John W. Robson; 9 months; \$3,140  
Arthur H. Steinbrenner; 9 months; \$7,900

UNIVERSITY OF ARKANSAS, Fayetteville; William R. Orton; 9 months; \$32,850

UNIVERSITY OF BUFFALO, Buffalo, N.Y.; Edith R. Schneckenburger; 9 months; \$6,000  
Stephen S. Winter; 9 months; \$17,170

UNIVERSITY OF CALIFORNIA, Berkeley; Clifford Bell, Los Angeles; 8 months; \$32,210

UNIVERSITY OF CHATTANOOGA, Chattanooga, Tenn.; Kenneth A. Fry; 9 months; \$13,630  
Robert L. Wilson; 9 months; \$7,010

UNIVERSITY OF CINCINNATI, Cincinnati, Ohio; I. A. Barnett; 9 months; \$19,030

UNIVERSITY OF COLORADO, Boulder; Burton W. Jones; 9 months; \$10,030

UNIVERSITY OF CONNECTICUT, Storrs; David J. Blick; 9 months; \$16,630

UNIVERSITY OF DELAWARE, Newark; J. J. Groot; 9 months; \$5,870

UNIVERSITY OF FLORIDA, Gainesville; Kenneth P. Kidd; 10 months; \$29,070  
G. Ray Noggle; 10 months; \$29,170

UNIVERSITY OF GEORGIA, Athens; Charles L. Koelsche; 9 months; \$16,130

UNIVERSITY OF HAWAII, Honolulu; Jimmie B. Smith; 6 months; \$8,440

UNIVERSITY OF KANSAS, Lawrence; William M. Balfour; 9 months; \$9,060

UNIVERSITY OF LOUISVILLE, Louisville, Ky.; W. H. Spragens; 9 months; \$5,420  
Bruce B. Vance; 9 months; \$5,740

UNIVERSITY OF MARYLAND, College Park; Robert Detenbeck; 9 months; \$20,770

UNIVERSITY OF MIAMI, Coral Gables, Fla.; Andrew F. Sobczyk; 9 months; \$25,250

UNIVERSITY OF MICHIGAN, Ann Arbor; Charles Brumfiel; 9 months; \$15,440

UNIVERSITY OF NEVADA, Reno; E. M. Beesley; 10 months; \$19,360

UNIVERSITY OF NEW MEXICO, Albuquerque; Merle Mitchell; 9 months; \$5,360



UNIVERSITY OF NORTH CAROLINA, Chapel Hill; William A. White; 9 months; \$9,050  
 Hollis J. Rogers, Greensboro; 9 months; \$22,820  
 H. V. Park, Raleigh; 9 months; \$7,520  
 UNIVERSITY OF NORTH DAKOTA, Grand Forks; Paul B. Kannowski; 9 months; \$14,310  
 UNIVERSITY OF OKLAHOMA, Norman; Richard V. Andree; 9 months; \$31,630  
 Harold V. Huneke; 10 months; \$9,780  
 UNIVERSITY OF OREGON, Eugene; A. F. Mour-  
 sund; 8 months; \$6,450  
 UNIVERSITY OF PENNSYLVANIA, Philadelphia; J. F. Hazel; 10 months; \$12,980  
 UNIVERSITY OF PITTSBURGH, Pittsburgh, Pa.; Peter Gray; 8 months; \$7,780  
 UNIVERSITY OF PUERTO RICO, Mayaguez; Virgilio Blaggi, Jr.; 9 months; \$11,790  
 Augusto Bononis; 9 months; \$14,970  
 Harold Heatwole; 9 months; \$9,930  
 J. C. Knipp; 8 months; \$9,060  
 UNIVERSITY OF REDLANDS, Redlands, Calif.; Paul R. Gleason; 8 months; \$11,270  
 UNIVERSITY OF ROCHESTER, Rochester, N.Y.; John J. Montean; 9 months; \$32,100  
 UNIVERSITY OF SAN FRANCISCO, San Francisco, Calif.; Edward J. Farrell; 10 months; \$10,070  
 UNIVERSITY OF SCRANTON, Scranton, Pa.; Joseph A. Rock; 9 months; \$18,210  
 UNIVERSITY OF SOUTHERN CALIFORNIA, Los Angeles; John W. Reith; 10 months; \$2,360  
 Paul A. White; 9 months; \$21,960  
 UNIVERSITY OF SOUTHWESTERN LOUISIANA, Lafayette; James R. Oliver; 9 months; \$18,100  
 James R. Oliver; 9 months; \$12,650  
 James R. Oliver; 9 months; \$12,960  
 UNIVERSITY OF TEXAS, Austin, E. J. Knapp, El Paso; 9 months; \$5,560  
 UNIVERSITY OF UTAH, Salt Lake City; James H. Wolfe; 9 months; \$7,650  
 UNIVERSITY OF VIRGINIA, Charlottesville; James W. Cole, Jr.; 9 months; \$21,100  
 James W. Cole, Jr.; 9 months; \$6,980  
 William C. Lowry; 9 months; \$11,100  
 UNIVERSITY OF WASHINGTON, Seattle; Roy Dubisch; 9 months; \$8,510  
 Arthur D. Welander; \$750  
 UNIVERSITY OF WYOMING, Laramie; W. Norman Smith; 9 months; \$7,510  
 UTAH STATE UNIVERSITY, Logan; McRay Cloward, Cedar City; 8 months; \$8,660  
 Marden Broadbent, Provo; 8 months; \$6,760  
 VILLANOVA UNIVERSITY, Villanova, Pa.; J. Bernard Hubbert; 9 months; \$14,270  
 VIRGINIA STATE COLLEGE, Petersburg; Richard H. Dunn; 9 months; \$7,790  
 Richard H. Dunn; 9 months; \$18,000  
 WAKE FOREST COLLEGE, Winston-Salem, N.C.; Ben M. Seelbinder; 9 months; \$6,880  
 WAYNE STATE UNIVERSITY, Detroit, Mich.; William V. Mayer; 8 months; \$9,080  
 WEST CHESTER STATE COLLEGE, West Chester, Pa.; Albert E. Filano; 10 months; \$6,750  
 WEST VIRGINIA UNIVERSITY, Morgantown; I. Dee Peters; 9 months; \$84,470

WESTERN MICHIGAN UNIVERSITY, Kalamazoo; George G. Mallinson; 9 months; \$12,800  
 WILLIAM JEWELL COLLEGE, Liberty, Mo.; Wallace A. Hilton; 9 months; \$11,530  
 XAVIER UNIVERSITY, New Orleans, La.; Sister Miriam Francis; 9 months; \$7,960  
 Sister M. Veronica; 9 months; \$7,390  
 YESHIVA UNIVERSITY, New York, N.Y.; Abe Gelbart; 9 months; \$82,750  
 William Zlot; 9 months; \$5,640  
 YOUNGSTOWN UNIVERSITY, Youngstown, Ohio; Bernard J. Yozwiak; 9 months; \$5,820

#### PUBLIC UNDERSTANDING OF SCIENCE

AMERICAN INSTITUTE OF PHYSICS, New York, N.Y.; Elmer Hutchlsson; *Seminars for Science Writers*; 14 months; \$15,530  
 Elmer Hutchlsson; *Seminars for Science Writers*; 1 month; \$34,140  
 CITY COLLEGE, New York, N.Y.; Mina Rees; *Planning of a New Educational Television Series*; 1 year; \$10,000  
 COUNCIL FOR THE ADVANCEMENT OF SCIENCE WRITING, Inc., New York, N.Y.; Pierre C. Fraley; *A Science Seminar for Magazine Editors*; 3 days; \$5,605  
 EDUCATIONAL TESTING SERVICE, Princeton, N.J.; John S. Hollister; *Nationwide Educational Television Science Film Program*; 2 years; \$30,300  
 NEW YORK UNIVERSITY, New York; Hillier Krieghbaum; *Program to Train Science News Reporters*; 2 weeks; \$14,740  
 STATE OF WISCONSIN BOARD OF REGENTS OF STATE COLLEGES, Madison; Harry F. Bangsberg; *Science Seminar for Mass Communications Personnel*; 4 days; \$3,990  
 TULANE UNIVERSITY, New Orleans, La.; Quentin Ault; *Science News Seminar for Selected Southern Newspaper Editors*; 5 months; \$7,237  
 UNIVERSITY OF CALIFORNIA, Berkeley; A. Hunter Dupree; *History of Science in the Federal Government, 1940-1960*; 3 years; \$177,560  
 UNIVERSITY OF MICHIGAN, Ann Arbor; Charles W. Wixom; *Conference on Science in the Press*; 2 days; \$17,990

#### RESEARCH PARTICIPATION FOR COLLEGE TEACHERS PROGRAM

BRANDEIS UNIVERSITY, Waltham, Mass.; Myron Rosenblum; 12 weeks; \$11,110  
 CASE INSTITUTE OF TECHNOLOGY, Cleveland, Ohio; J. Reid Shelton; 11 months; \$18,750  
 FLORIDA STATE UNIVERSITY, Tallahassee; Barron B. Scarborough; 11 months; \$21,110  
 Leland Shanor; 8 weeks; \$14,000  
 HOWARD UNIVERSITY, Washington, D.C.; Joseph B. Morris; 10 weeks; \$16,960  
 INDIANA UNIVERSITY, Bloomington; Harry G. Day; 8 weeks; \$10,600  
 John B. Patton; 8 weeks; \$6,500  
 IOWA STATE UNIVERSITY, Ames; Paul F. Romberg; 9 weeks; \$10,830  
 KANSAS STATE UNIVERSITY, Manhattan; Jack L. Lambert; 9 months; \$3,620  
 LOUISIANA STATE UNIVERSITY, Baton Rouge; Robert V. Nauman; 10 weeks; \$24,355  
 Vincent E. Parker; 9 weeks; \$15,810

NEW MEXICO HIGHLANDS UNIVERSITY, Las Vegas; James P. Zietlow 1 year; \$30,530

NORTH DAKOTA STATE UNIVERSITY, Fargo; J. A. Callenbach; 11 months; \$10,240

OHIO STATE UNIVERSITY, Columbus; F. E. Deatherage; 1 year; \$17,480

OKLAHOMA STATE UNIVERSITY RESEARCH FOUNDATION, Stillwater; Marvin T. Edmison; 10 weeks; \$7,745  
Glenn W. Todd; 1 year; \$13,320

OREGON STATE UNIVERSITY, Corvallis; W. H. Slabaugh; 8 weeks; \$29,770

PENNSYLVANIA STATE UNIVERSITY, University Park; William M. Lepley; 10 weeks; \$14,430  
M. J. Montjar; 9 weeks; \$9,900

PURDUE UNIVERSITY, Lafayette, Ind.; Kirk L. Athow; 12 weeks; \$10,470  
M. X. Zarrow; 1 year; \$23,980

ROSWELL PARK MEMORIAL INSTITUTE, Buffalo, N.Y.; Edwin A. Mirand; 13 weeks; \$17,530

STANFORD UNIVERSITY, Stanford, Calif.; Willis W. Harman; 12 weeks; \$26,330

STATE UNIVERSITY OF SOUTH DAKOTA, Vermillion; George P. Scott; 11 months; \$4,210

SYRACUSE UNIVERSITY, Syracuse, N.Y.; James A. Luker; 12 weeks; \$8,330

TUFTS UNIVERSITY, Medford, Mass.; M. Kent Wilson; 8 weeks; \$14,940

UNIVERSITY OF BUFFALO, Buffalo, N.Y.; Howard Tleckelmann; \$2,310

UNIVERSITY OF CALIFORNIA, Berkeley; Richard Fulrath; 1 year; \$23,135

UNIVERSITY OF COLORADO, Boulder; Albert A. Bartlett; 10 weeks; \$17,040  
Bert M. Tolbert; 10 weeks; \$23,250

UNIVERSITY OF FLORIDA, Gainesville; Stanley S. Ballard; 1 year; \$11,300  
Wallace S. Brey, Jr.; 1 year; \$15,460

UNIVERSITY OF GEORGIA, Athens; William J. Payne; 10 weeks; \$9,890

UNIVERSITY OF ILLINOIS, Urbana; C. Ladd Prosser; 8 weeks; \$14,300

UNIVERSITY OF KANSAS, Lawrence; C. A. Vanderwerf; 11 weeks; \$30,740

UNIVERSITY OF MARYLAND, College Park; John S. Toll; 10 weeks; \$22,590

UNIVERSITY OF MASSACHUSETTS, Amherst; Edward L. Davis; 11 months; \$6,875

UNIVERSITY OF MISSISSIPPI, University; Russell W. Maatman; 1 year; \$16,980

UNIVERSITY OF NEBRASKA, Lincoln; John W. Weymouth; 1 year; \$17,150

UNIVERSITY OF NORTH CAROLINA, Chapel Hill; Homer C. Folks, Raleigh; 1 year; \$31,160  
T. Ewald Maki, Raleigh; 10 weeks; \$4,000

UNIVERSITY OF NORTH DAKOTA, Grand Forks; H. E. Ederstrom; 8 weeks; \$2,810

UNIVERSITY OF OKLAHOMA, Norman; Richard V. Andree; 1 year; \$51,500  
Alfred J. Weinheimer; 11 months; \$21,330

UNIVERSITY OF ROCHESTER, Rochester, N.Y.; Stanley R. Glasser; 8 weeks; \$16,280

UNIVERSITY OF SOUTHERN CALIFORNIA, Los Angeles; Walter E. Martin; 10 weeks; \$15,280

UNIVERSITY OF TENNESSEE, Knoxville; William E. Bull; 11 weeks; \$25,100

UNIVERSITY OF VIRGINIA, Charlottesville; Bart Van't Riet; 1 year; \$13,410

UNIVERSITY OF WISCONSIN, Madison; Robert W. Finley; 11 months; \$17,785

UTAH STATE UNIVERSITY, Logan; H. B. Peterson; 12 weeks; \$14,960

VIRGINIA INSTITUTE OF MARINE SCIENCE, Gloucester Point; Robert S. Bailey; 1 year; \$33,180

WESTERN RESERVE UNIVERSITY, Cleveland, Ohio; Gerald E. Tauber; 1 year; \$11,020

#### RESEARCH PARTICIPATION FOR HIGH SCHOOL TEACHERS PROGRAM

BOYCE THOMPSON INSTITUTE FOR PLANT RESEARCH, Inc., Yonkers, N.Y.; Lawrence P. Miller; 8 weeks; \$12,430

CARNEGIE INSTITUTE OF TECHNOLOGY, Pittsburgh, Pa.; B. R. Teare, Jr.; 8 weeks; \$27,015

CITY COLLEGE, New York, N.Y.; Chester B. Kremer; 11 months; \$17,950

CLARK UNIVERSITY, Worcester, Mass.; Roy S. Anderson; 1 year; \$4,720

CLARKSON COLLEGE OF TECHNOLOGY, Potsdam, N.Y.; Theodore Renzema; 9 weeks; \$15,080

COLLEGE OF WOOSTER, Wooster, Ohio; John D. Reinheimer; 11 months; \$8,140

COLORADO STATE UNIVERSITY RESEARCH FOUNDATION, Fort Collins; Merle G. Payne; 1 year; \$18,200

CORNELL UNIVERSITY, Ithaca, N.Y.; Phillip G. Johnson; 11 months; \$33,120

DARTMOUTH COLLEGE, Hanover, N.H.; Thomas E. Kurtz; 8 weeks; \$11,060

GEORGE WASHINGTON CARVER FOUNDATION, TUSKEGEE INSTITUTE, Ala.; Clarence T. Mason; 8 weeks; \$9,780

GEORGE WASHINGTON UNIVERSITY, Washington, D.C.; R. B. Stevens; 1 year; \$3,330

ILLINOIS INSTITUTE OF TECHNOLOGY, Chicago; Sidney I. Miller; 1 year; \$15,580

INDIANA UNIVERSITY, Bloomington; L. S. McClung; 11 months; \$8,960

IOWA STATE UNIVERSITY, Ames; Paul Romberg; 9 weeks; \$24,740

KANSAS STATE TEACHERS COLLEGE, Emporia; Ted F. Andrews; 1 year; \$21,450

MONTANA STATE UNIVERSITY, Missoula; Paul H. Baldwin; 8 weeks; \$7,060

NEW MEXICO HIGHLANDS UNIVERSITY, Las Vegas; E. Gerald Meyer; 1 year; \$16,800

NORTH DAKOTA STATE UNIVERSITY, Fargo; J. A. Callenbach; 11 months; \$17,110

NORTH TEXAS STATE UNIVERSITY, Denton; Robert C. Sherman; 1 year; \$13,490

PRAIRIE VIEW AGRICULTURAL AND MECHANICAL COLLEGE, Prairie View, Tex.; E. E. O'Banion; 1 year; \$12,340

RENSSELAER POLYTECHNIC INSTITUTE, Troy, N.Y.; Robert L. Strong; 8 weeks; \$20,130

RESEARCH FOUNDATION OF STATE UNIVERSITY OF NEW YORK, Albany; Edwin C. Jahn, Syracuse; 10 weeks; \$8,050

ST. JOHN'S UNIVERSITY, Jamaica, N.Y.; Paul T. Medici; 8 weeks; \$17,810

STANFORD UNIVERSITY, Stanford, Calif.; O. Cutler Shepard; 11 months; \$10,820

STATE UNIVERSITY OF SOUTH DAKOTA, Vermillion; George P. Scott; 11 months; \$18,720

TENNESSEE AGRICULTURAL AND INDUSTRIAL STATE UNIVERSITY, Nashville; Samuel von Winbush; 8 weeks; \$7,060

U.S. NAVY ELECTRONICS LABORATORY, San Diego, Calif.; Robert W. Young; 62 weeks; \$8,500

UNIVERSITY OF ARIZONA, Tucson; Jefferson C. Davis; 11 months; \$15,360

UNIVERSITY OF BUFFALO, Buffalo, N.Y.; How-Tieckelmann; 11 months; \$11,430

UNIVERSITY OF CALIFORNIA, Berkeley; Fred E. Dickinson; 11 months; \$39,150

Robert L. Thornton; 10 weeks; \$47,880  
Richard A. Bernhardt, Davis; 8 weeks; \$9,660

UNIVERSITY OF DELAWARE, Newark; James C. Kakavas; 8 weeks; \$11,630

UNIVERSITY OF GEORGIA, Athens; Robert A. McRorie; 10 weeks; \$22,070

UNIVERSITY OF HAWAII, Honolulu; Harry Zeitlin; 10 weeks; \$10,870

UNIVERSITY OF MASSACHUSETTS, Amherst; Edward L. Davis; 11 months; \$5,720

UNIVERSITY OF MISSISSIPPI, University; Barton Milligan; 1 year; \$11,440

UNIVERSITY OF NORTH CAROLINA, Chapel Hill; Robert M. Pinkerton, Raleigh; 1 year; \$7,710

UNIVERSITY OF NORTH DAKOTA, Grand Forks, Francis A. Jacobs; 8 weeks; \$3,920

UNIVERSITY OF OKLAHOMA, Norman; Horace Hoffman; 11 months; \$12,230

Carl D. Riggs; 11 months; \$14,760

UNIVERSITY OF THE PACIFIC, Stockton, Calif.; Joel W. Hedgpeth; Dillon Beach; 1 year; \$13,420

UNIVERSITY OF RHODE ISLAND, Kingston; Eugene C. Winslow; 8 weeks; \$6,320

UNIVERSITY OF ROCHESTER, Rochester, N.Y.; John J. Montean; 11 months; \$23,350

UNIVERSITY OF SOUTHERN CALIFORNIA, Los Angeles; Charles S. Copeland; 4 months; \$2,780

UNIVERSITY OF VERMONT, Burlington; Howard M. Smith, Jr.; 11 months; \$11,760

UNIVERSITY OF VIRGINIA, Charlottesville; Jacques Rappaport; 8 weeks; \$8,020

UNIVERSITY OF WISCONSIN, Madison; Donald H. Bucklin; 11 months; \$48,970

WAYNE STATE UNIVERSITY, Detroit, Mich.; George H. Schenk; 8 weeks; \$10,320

#### SCIENTIFIC MANPOWER STUDIES

AMERICAN UNIVERSITY, Washington, D.C.; Ernest S. Griffith; *Current Role of the Sino-Soviet Bloc in the Development of the Scientific and Engineering Manpower Resources of Other Countries*; 2 months; \$1,725

ENGINEERS JOINT COUNCIL, New York, N.Y.; Carl Frey; *Analysis of 1962 Salary and Other Professional Earnings of Engineering Faculty Members*; 7 months; \$10,870

FEDERATION OF AMERICAN SOCIETIES FOR EXPERIMENTAL BIOLOGY, Washington, D.C.; Milton O. Lee; *Tabulation and Analysis of Ph. D. Dissertations in the Basic Medical Sciences*; 8 months; \$9,258

MIDDLE EAST INSTITUTE, Washington, D.C.; Fahim I. Qubain; *The Employment and Training of Scientists and Engineers in the Middle East*; 1 year; \$17,595

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL, Washington, D.C.; M. H. Trytten; *Continuation of Revision of Study on Soviet Professional Manpower*; 3 months; \$1,584

NATIONAL MERIT SCHOLARSHIP CORPORATION, Evanston, Ill.; John L. Holland; *Study of Institutional Characteristics Related to College Productivity*; 1 year; \$25,185

NATIONAL OPINION RESEARCH CENTER, Chicago, Ill.; Peter H. Rossi; *Development of A Study Plan for Post Enumeration Census Study*; \$3,538

NATIONAL SCIENCE TEACHERS ASSOCIATION, Washington, D.C.; Robert H. Carleton; *1961-62 Registry of High School Science and Mathematics Teachers*; 1 year; \$36,800

Robert H. Carleton; *1962-63 Registry of High School Science and Mathematics Teachers*; 1 year; \$42,550

SETON HALL UNIVERSITY, South Orange, N.J.; John B. Tsu; *Employment and Utilization of Communist China's Scientists and Engineers, 1950-1962*; 7 months; \$7,000

U.S. DEPARTMENT OF COMMERCE, BUREAU OF THE CENSUS, Washington, D.C.; Richard M. Scammon; *Post-Censal Survey of Professional and Technical Manpower*; 18 months; \$290,000

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, OFFICE OF EDUCATION, Washington, D.C.; E. Glenn Featherston; *1960-61 Survey of Federal Funds for Science Education*; 9 months; \$13,405

Ralph M. Flynt; *Survey of Offerings and Enrollments in Nonpublic Secondary Schools*; 18 months; \$19,710

Francis A. J. Ianni; *Study of the 1961 Graduating Classes of American Undergraduate Colleges*; 6 months; \$5,000

Virgil Walker; *Sources of Financial Support of Graduate Students*; 6 months; \$22,224

U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS, Washington, D.C.; Ewan Clague; *Development of Long-Range Estimates of Demand for Scientific and Technical Personnel*; 1 year; \$49,700

Ewan Clague; *A Pilot Study of the Quality of Responses to Surveys of Scientific and Technical Personnel in Industry*; 7 months; \$18,000

UNIVERSITY OF MARYLAND, College Park; Dudley Dillard; *Evaluation of Utilization of Women as a Manpower Resource in the Soviet Union*; 2 months; \$1,725

UNIVERSITY OF WISCONSIN, Madison; Gerald G. Somers; *The Labor Market Behavior of Scientists and Engineers in Jet and Missiles Production*; 1 year; \$15,295

#### SEMINAR ON MODERN SCIENCE AND MATHEMATICS IN SECONDARY SCHOOLS, NIGERIA

EARLHAM COLLEGE, Richmond, Ind.; Laurence E. Strong; 4 months; \$8,565

EDUCATIONAL SERVICES INC., Watertown, Mass.; Uri Haber-Schaim; 4 months; \$11,420

STANFORD UNIVERSITY, Stanford, Calif.; Edward G. Begle; 4 months; \$9,000

## SPECIAL CONFERENCES AND SYMPOSIA

EDUCATIONAL SERVICES INC., Watertown, Mass.; Jerrold R. Zacharias; *One-Week Training Conference for the Summer Institute Staffs Dealing with the Physics Course Prepared by the Physical Science Study Committee*; 1 week; \$14,700

## SPECIAL FIELD INSTITUTES

COLORADO STATE UNIVERSITY RESEARCH FOUNDATION, Fort Collins; Herbert Riehl; *The Atmosphere and the Water Cycle*; 11 weeks; \$9,520

HOWARD UNIVERSITY, Washington, D.C.; Evon Z. Vogt; *Field Institute in Anthropology*; 3 months; \$15,075

UNIVERSITY OF CALIFORNIA, Berkeley; Arno P. Schnlewind; *Conference on the Mechanical Behavior of Wood*; 6 days; \$15,485

UNIVERSITY OF KANSAS, Lawrence; Charles D. Michener; *Entomological Field Course in Mexico and Central America*; 3 months; \$3,100

UNIVERSITY OF MICHIGAN, Ann Arbor; Paul F. Zweifel; *Conference in Neutron Physics*; 7 days; \$8,990

VIRGINIA POLYTECHNIC INSTITUTE, Blacksburg; James B. Eades, Jr.; *A Conference on Lunar Exploration*; 5 days; \$36,995

WASHINGTON STATE UNIVERSITY, Pullman; William W. Elmendorf; *Field School in Ethnography*; 4 months; \$2,045

## STATE ACADEMIES OF SCIENCE PROGRAM

ACADEMY OF SCIENCE OF ST. LOUIS, St. Louis, Mo.; Donn P. Brazier; 20 months; \$13,545

ALABAMA ACADEMY OF SCIENCE, Montevallo; Ruric E. Wheeler, Howard College; 20 months; \$8,200

ARIZONA ACADEMY OF SCIENCE, Phoenix; Chester R. Leathers, Arizona State University; 18 months; \$17,580

ARKANSAS ACADEMY OF SCIENCE, Russellville; John W. Keesee, University of Arkansas; 17 months; \$6,810

CHICAGO ACADEMY OF SCIENCES, Chicago, Ill.; William J. Beecher; 17 months; \$10,315

COLORADO-WYOMING ACADEMY OF SCIENCE, Colorado Springs, Colo.; Richard G. Beldleman, Colorado College; 17 months; \$3,935

FLORIDA ACADEMY OF SCIENCE, Winter Park; Paul A. Vestal, Rollins College; 16 months; \$14,000

FRANKLIN INSTITUTE, Philadelphia, Pa.; Robert W. Neathery; 15 months; \$3,795

GEORGIA ACADEMY OF SCIENCE, Chamblee; William H. Jones, Emory University; 11 months; \$8,510

HAWAIIAN ACADEMY OF SCIENCE, Honolulu; Albert B. Carr, University of Hawaii; 18 months; \$4,220

Paul C. Ekern, University of Hawaii; 18 months; \$2,900

Wallace G. Sanford, University of Hawaii; 18 months; \$19,205

IDAHO ACADEMY OF SCIENCE, Boise; Verl G. Garrard, University of Idaho; 18 months; \$14,205

INDIANA ACADEMY OF SCIENCE, Notre Dame; Howard H. Michaud, Purdue University; 18 months; \$17,150

IOWA ACADEMY OF SCIENCE, Inc., Iowa City; T. R. Porter, State University of Iowa; 18 months; \$21,040

KANSAS ACADEMY OF SCIENCE, Hays; John Breukelman, Kansas State Teachers College; 18 months; \$7,800

Margaret B. Parker, Kansas State College; 19 months; \$22,160

LOUISIANA STATE UNIVERSITY, Baton Rouge; Harry J. Bennett; 17 months; \$20,255

Harry J. Bennett; 17 months; \$6,010

MARYLAND ACADEMY OF SCIENCES, Baltimore; Nigel O'C. Wolf; 1 year; \$12,980

Nigel O'C. Wolf; 1 year; \$2,630

Nigel O'C. Wolf; 18 months; \$2,740

MICHIGAN ACADEMY OF SCIENCE, ARTS, AND LETTERS, East Lansing; Wayne Taylor, Michigan State University; 18 months; \$20,900

MINNESOTA ACADEMY OF SCIENCE, Austin; Walter O. Lundberg, University of Minnesota; 20 months; \$8,050

Walter O. Lundberg, University of Minnesota; 20 months; \$6,325

MISSISSIPPI ACADEMY OF SCIENCES, Inc., State College; Clyde Q. Sheely, Mississippi State University; 18 months; \$35,455

MONTANA ACADEMY OF SCIENCES, Missoula; John P. Robinson; 18 months; \$8,755

MUSEUM OF ART, SCIENCE, AND INDUSTRY, Bridgeport, Conn.; Earle W. Newton; 18 months; \$9,845

NEBRASKA ACADEMY OF SCIENCES, Inc., Omaha; James A. Rutledge, University of Nebraska; 18 months; \$13,920

NEW MEXICO ACADEMY OF SCIENCE, Albuquerque; J. D. Hopperton, New Mexico Institute of Mining and Technology; 21 months; \$9,785

NORTH CAROLINA ACADEMY OF SCIENCE, Durham; Herbert E. Speece, North Carolina State College; 20 months; \$10,975

NORTHERN NEW ENGLAND ACADEMY OF SCIENCE, Durham, N.H.; Allen L. King, Dartmouth College; 19 months; \$13,500

Howard I. Wagner, State Department of Education; 20 months; \$4,000

OHIO ACADEMY OF SCIENCE, Columbus; Gerald Acker, Bowling Green State University; 20 months; \$7,735

William A. Manuel, Ohio Wesleyan University; 18 months; \$23,000

OKLAHOMA ACADEMY OF SCIENCE, Stillwater; Robert C. Fite, Oklahoma State University; 20 months; \$7,870

J. Teague Self, University of Oklahoma; 20 months; \$21,310

OREGON ACADEMY OF SCIENCE, Portland; John T. Van Bruggen, University of Oregon Medical School; 14 months; \$7,880

PENNSYLVANIA ACADEMY OF SCIENCE, Easton; Charles L. Bikle, Milton Hershey School; 15 months; \$9,005

SOUTH DAKOTA ACADEMY OF SCIENCE, Vermillion; T. Van Bruggen, State University of South Dakota; 18 months; \$5,810

T. Van Bruggen, State University of South Dakota; 18 months; \$1,935

T. Van Bruggen, State University of South Dakota; 18 months; \$9,780

T. Van Bruggen, State University of South Dakota; 18 months; \$8,740

TENNESSEE ACADEMY OF SCIENCE, Nashville; Myron S. McCay, University of Chattanooga; 19 months; \$13,325

Albert L. Myers, Carson-Newman College; 18 months; \$3,570

W. Roger Rusk, University of Tennessee; 18 months; \$12,100

TEXAS ACADEMY OF SCIENCE, Galveston; Addison E. Lee, University of Texas; 18 months; \$19,365

Charles LaMotte, Agricultural and Mechanical College of Texas; 20 months; \$10,610

UNIVERSITY OF PUERTO RICO, Rio Piedras; Herminio Lugo; 18 months; \$25,070

UTAH ACADEMY OF SCIENCES, ARTS, AND LETTERS, Logan; Orson Whitney Young, Weber College; 18 months; \$14,720

WASHINGTON ACADEMY OF SCIENCES, Washington, D.C.; John K. Taylor, National Bureau of Standards; 1 year; \$5,550

John K. Taylor, National Bureau of Standards; 1 year; \$2,500

John K. Taylor, National Bureau of Standards; 18 months; \$10,550

WEST VIRGINIA ACADEMY OF SCIENCE, Morgantown; Arthur B. Gould, West Virginia Wesleyan College; 17 months; \$5,850

WISCONSIN ACADEMY OF SCIENCES, ARTS, AND LETTERS, Beloit; Jack R. Arndt, University of Wisconsin; 18 months; \$7,175

#### SUMMER CONFERENCE FOR COLLEGE TEACHERS

AMERICAN UNIVERSITY, Washington, D.C.; Matthew F. Norton; 14 days; \$16,600

CASE INSTITUTE OF TECHNOLOGY, Cleveland, Ohio; Gordon M. Barrow; 19 days; \$15,200

COLORADO SCHOOL OF MINES, Golden; Robert J. Welmer; 27 days; \$24,900

COLORADO STATE UNIVERSITY RESEARCH FOUNDATION, Fort Collins; Ferdinand Baer; 20 days; \$16,900

Donald R. Wood; 19 days; \$14,100

DARTMOUTH COLLEGE, Hanover, N.H.; Daniel Rosenthal, University of California; 10 days; \$11,900

FAIRMONT STATE COLLEGE, Fairmont, W. Va.; John W. Hogarty; 25 days; \$19,000

GENERAL EXTENSION DIVISION, OREGON SYSTEM OF HIGHER EDUCATION, Portland; Robert W. Rempfer, Portland State College; 20 days; \$11,400

GEORGETOWN UNIVERSITY, Washington, D.C.; Matthew P. Thekaekara; 24 days; \$21,000

INSTITUTE OF PAPER CHEMISTRY, Appleton, Wis.; Elwood O. Dillingham; 12 days; \$14,100

LEHIGH UNIVERSITY, Bethlehem, Pa.; Everett Pitcher; 19 days; \$18,000

MARQUETTE UNIVERSITY, Milwaukee, Wis.; John E. Kelley; 20 days; \$12,400

MICHIGAN COLLEGE OF MINING AND TECHNOLOGY, Houghton; James M. Neilson; 15 days; \$16,900

MONTCLAIR STATE COLLEGE, Upper Montclair, N.J.; Anthony J. Pettofrezzo; 12 days; \$11,000

OHIO STATE UNIVERSITY, Columbus; Daryle H. Busch; 12 days; \$13,200

OKLAHOMA STATE UNIVERSITY, Stillwater; L. Wayne Johnson; 14 days; \$16,800

PENNSYLVANIA STATE UNIVERSITY, University Park; William H. Powers; 27 days; \$7,100

PRINCETON UNIVERSITY, Princeton, N.J.; A. J. Maruca; 19 days; \$17,900

RUTGERS, THE STATE UNIVERSITY, New Brunswick, N.J.; Richard F. Gabriel; 20 days; \$18,200

TUFTS UNIVERSITY, Medford, Mass.; M. Kent Wilson; 13 days; \$13,800

UNIVERSITY OF ARIZONA, Tucson; Donald L. Webb; 19 days; \$15,300

UNIVERSITY OF CALIFORNIA, Berkeley; Clifford Bell, Los Angeles; 26 days; \$18,900

Daniel Rosenthal, Los Angeles; 10 days; \$11,200

UNIVERSITY OF FLORIDA, Gainesville; Wallace S. Brey, Jr.; 12 days; \$13,680

UNIVERSITY OF LOUISVILLE, Louisville, Ky.; Daniel F. Jackson; 21 days; \$19,100

UNIVERSITY OF MIAMI, Coral Gables, Fla.; E. F. Low, Jr.; 26 days; \$14,800

UNIVERSITY OF MICHIGAN, Ann Arbor; Phillip S. Jones; 26 days; \$21,600

UNIVERSITY OF NORTH CAROLINA, Chapel Hill; C. Ritchie Bell; 19 days; \$14,700

UNIVERSITY OF SOUTHERN CALIFORNIA, Los Angeles; Robert D. Vold; 16 days; \$15,200

UNIVERSITY OF SOUTHWESTERN LOUISIANA, Lafayette; James R. Oliver; 27 days; \$17,400

UNIVERSITY OF UTAH, Salt Lake City; Eugene E. Kohlbecker; 26 days; \$19,200

VANDERBILT UNIVERSITY, Nashville, Tenn.; B. F. Bryant and James R. Wesson; 26 days; \$17,300

WASHINGTON STATE UNIVERSITY, Pullman; Sidney G. Hacker; 26 days; \$19,800

Charles Gardner Shaw; 12 days; \$14,800

WAYNE STATE UNIVERSITY, Detroit, Mich.; Willard H. Parsons; 20 days; \$20,400

#### SUMMER INSTITUTES FOR COLLEGE TEACHERS

AGRICULTURAL AND MECHANICAL COLLEGE OF TEXAS, College Station; J. H. Caddess; 15 weeks; \$51,300

Robert G. Cochran; 6 weeks; \$18,100

AMERICAN UNIVERSITY, Washington, D.C.; Leo Schubert; 6 weeks; \$49,250

ARIZONA STATE UNIVERSITY, Tempe; Gordon L. Bender; 6 weeks; \$40,500

AUBURN UNIVERSITY, Auburn, Ala.; Ernest Williams; 10½ weeks; \$31,700

BELOIT COLLEGE, Beloit, Wis.; S. C. Hayward; 6 weeks; \$33,000

R. Ronald Palmer; 6 weeks; \$30,200

BOWDOIN COLLEGE, Brunswick, Maine; Dan E. Christie; 6 weeks; \$51,100

BUCKNELL UNIVERSITY, Lewisburg, Pa.; Charles H. Coder, Jr.; 6 weeks; \$40,500

COLORADO STATE UNIVERSITY, Fort Collins; John H. Nath; 8 weeks; \$33,600

DUKE UNIVERSITY, Durham, N.C.; Harold J. Humm; 5 weeks; \$15,375

EMORY UNIVERSITY, Atlanta, Ga.; William H. Jones; 9 weeks; \$43,300

FISK UNIVERSITY, Nashville, Tenn.; Nelson Fuson; 6 weeks; \$23,400

FORT HAYS KANSAS STATE COLLEGE, Hays, Kans.; Harold S. Chogull; 8 weeks; \$30,200

GEORGIA INSTITUTE OF TECHNOLOGY, Atlanta; James A. Stanfield; 6 weeks; \$35,050

HARVARD UNIVERSITY, Cambridge, Mass.; Thomas S. Parsons, University of Toronto; 6 weeks; \$47,400

ILLINOIS INSTITUTE OF TECHNOLOGY, Chicago; Peter Chiarulli; 8 weeks; \$41,100

IOWA STATE UNIVERSITY, Ames; Glenn Murphy; 6 weeks; \$43,900  
Glenn Murphy; 6 weeks; \$21,400  
Bernard Vinograde; 6 weeks; \$33,150

LOUISIANA STATE UNIVERSITY, Baton Rouge; Harry D. Richardson; 9 weeks; \$26,600

MICHIGAN COLLEGE OF MINING AND TECHNOLOGY, Houghton; Kenneth M. McMillin; 10 weeks; \$35,600

NORTHWESTERN UNIVERSITY, Evanston, Ill.; Edward J. Taaffe; 6 weeks; \$31,050

OAK RIDGE INSTITUTE, Oak Ridge, N.C.; Ralph T. Overman; 6 weeks; \$17,600  
Ralph T. Overman; 7 weeks; \$16,900  
Ralph T. Overman; 8 weeks; \$19,200

OKLAHOMA STATE UNIVERSITY, Stillwater; Carl E. Marshall; 9 weeks; \$64,450  
Jan J. Tuma; 9 weeks; \$61,347

OREGON STATE UNIVERSITY, Corvallis; A. V. Logan; 6 weeks; \$34,750

PURDUE UNIVERSITY, Lafayette, Ind.; John E. Christian; 6 weeks; \$14,500

RUTGERS, THE STATE UNIVERSITY, New Brunswick, N.J.; Joshua Bariaz; 8 weeks; \$46,900

STATE UNIVERSITY OF IOWA, Iowa City; Don Lewis; 8 weeks; \$63,800

STEVENS INSTITUTE OF TECHNOLOGY, Hoboken, N.J.; Robert H. Seavy; 6 weeks; \$33,700

SYRACUSE UNIVERSITY, Syracuse, N.Y.; M. W. Jennison; 6 weeks; \$14,500

TULANE UNIVERSITY, New Orleans, La.; John K. Hampton, Jr.; 8 weeks; \$19,200

UNIVERSITY OF ARIZONA, Tucson; M. R. Bottaccini; 8 weeks; \$36,100

UNIVERSITY OF CALIFORNIA, Berkeley; George Jura; 8 weeks; \$23,700  
Duane F. Marble, University of Pennsylvania; 8 weeks; \$49,600  
Robert F. Murphy; 6 weeks; \$32,200  
Peter K. Henrich, Los Angeles; 8 weeks; \$70,100

UNIVERSITY OF COLORADO, Boulder; James Chinn; 10 weeks; \$56,100  
Alec J. Kelso; 10 weeks; \$65,700  
G. B. Williams, University of Michigan; 8 weeks; \$55,100

UNIVERSITY OF GEORGIA, Athens; John Jewett; 10 weeks; \$30,750

UNIVERSITY OF HOUSTON, Houston, Tex.; Herbert H. Curry; 8 weeks; \$51,300

UNIVERSITY OF ILLINOIS, Urbana; Jerry S. Dobrovolsky; 8 weeks; \$52,600  
Joseph Landin; 12 weeks; \$77,515

UNIVERSITY OF KANSAS, Lawrence; Arnold A. Strassenburg; 8 weeks; \$37,400

UNIVERSITY OF MISSISSIPPI, University; William A. Wilbanks; 11 weeks; \$47,500

UNIVERSITY OF NORTH CAROLINA, Chapel Hill; H. D. Crockford; 6 weeks; \$38,100

UNIVERSITY OF NOTRE DAME, Notre Dame, Ind.; Harry C. Saxe; 7 weeks; \$38,500

UNIVERSITY OF OKLAHOMA, Norman; H. E. Hoffman; 8 weeks; \$22,800

UNIVERSITY OF OREGON, Eugene; Richard W. Castenholz; 8 weeks; \$34,500

UNIVERSITY OF THE PACIFIC, Stockton, Calif.; Emerson G. Cobb; 5 weeks; \$16,100

UNIVERSITY OF SOUTHWESTERN LOUISIANA, Lafayette; James R. Oliver; 9 weeks; \$21,100

UNIVERSITY OF WASHINGTON, Seattle; Roy Dubisch; 6 weeks; \$43,700

VANDERBILT UNIVERSITY, Nashville, Tenn.; R. B. Channell; 6 weeks; \$61,300

WASHINGTON STATE UNIVERSITY, Pullman; Harry Stern; 8 weeks; \$24,000

WORCESTER POLYTECHNIC INSTITUTE, Worcester, Mass.; Glen A. Richardson; 8 weeks; \$55,800

#### SUMMER INSTITUTES FOR SECONDARY SCHOOL AND COLLEGE TEACHERS

INDIANA UNIVERSITY, Bloomington; L. S. McClung; 4 weeks; \$28,900

MISSISSIPPI STATE UNIVERSITY, State College; Clyde Q. Sheely; 11 weeks; \$138,200

MONTANA STATE COLLEGE, Bozeman; L. O. Binder; 5 weeks; \$55,000

PHILADELPHIA COLLEGE OF PHARMACY AND SCIENCE, Pa.; Arthur Osol; 6 weeks; \$28,800

TUSKEGEE INSTITUTE, Tuskegee Institute, Ala.; B. D. Mayberry; 8 weeks; \$19,000

UNIVERSITY OF ILLINOIS, Urbana; Peter Yankwich; 8 weeks; \$47,000

UNIVERSITY OF KANSAS, Lawrence; Russell N. Bradt; 8 weeks; \$98,800

UNIVERSITY OF OKLAHOMA, Norman; Richard V. Andree; 9 weeks; \$84,675  
H. E. Hoffman; 8 weeks; \$46,400

UNIVERSITY OF WASHINGTON, Seattle; Arthur D. Welander; 8 weeks; \$38,000

#### SUMMER INSTITUTES FOR SECONDARY SCHOOL TEACHERS

AGRICULTURAL AND MECHANICAL COLLEGE OF TEXAS, College Station; E. B. Middleton; 12 weeks; \$72,700  
Melvin C. Schroeder; 12 weeks; \$63,600  
Albert Collier, Galveston; 4 weeks; \$22,900

AGRICULTURAL AND TECHNICAL COLLEGE OF NORTH CAROLINA, Greensboro; Gerald A. Edwards; 6 weeks; \$59,150  
Artis P. Graves; 9 weeks; \$69,300

ALABAMA AGRICULTURAL AND MECHANICAL COLLEGE, Normal; Vandon E. White; 10 weeks; \$48,300

ALABAMA COLLEGE, Montevallo; Paul C. Bailey; 10 weeks; \$96,900

ALAMEDA COUNTY STATE COLLEGE, Hayward, Calif.; C. T. Purvis; 8 weeks; \$50,200

ALBANY STATE COLLEGE, Albany, Ga.; Alexander A. Hall, Sr.; 6 weeks; \$49,800

ALFRED UNIVERSITY, Alfred, N.Y.; E. Gordon Ogden; 6 weeks; \$57,500

ALLEGHENY COLLEGE, Meadville, Pa.; Gerald S. Reisner; 7 weeks; \$67,200

**AMERICAN UNIVERSITY**, Washington, D.C.; Leo Schubert; 7 weeks; \$58,700  
**ANTIOCH COLLEGE**, Yellow Springs, Ohio; James F. Corwin; 8 weeks; \$94,400  
**ARIZONA STATE UNIVERSITY**, Tempe; John N. Aronson; 8 weeks; \$40,500  
     Valentine Galasyn; 8 weeks; \$71,200  
     Lehi T. Smith; 7 weeks; \$49,900  
**ARKANSAS STATE COLLEGE**, State College; W. W. Nedrow; 5 weeks; \$35,700  
**ATLANTA UNIVERSITY**, Atlanta, Ga.; K. A. Huggins; 9 weeks; \$64,700  
**AUBURN UNIVERSITY**, Auburn, Ala.; Ernest Williams; 10½ weeks; \$60,100  
     Ernest Williams; 10½ weeks; \$79,300  
**BALDWIN-WALLACE COLLEGE**, Berea, Ohio; Dean L. Robb; 6 weeks; \$40,000  
**BALL STATE TEACHERS COLLEGE**, Muncie, Ind.; Jerry J. Nisbet; 10 weeks; \$75,300  
**BAYLOR UNIVERSITY**, Waco, Tex.; Bryce C. Brown; 8 weeks; \$77,000  
**BIRMINGHAM-SOUTHERN COLLEGE**, Birmingham, Ala.; Hoyt M. Kaylor; 8 weeks; \$76,600  
**BOARD OF REGENTS OF WISCONSIN STATE COLLEGES**, Madison; Eugene R. McPhee; 4 weeks; \$32,800  
     Eugene R. McPhee; 6 weeks; \$47,800  
**BOSTON COLLEGE**, Chestnut Hill, Mass.; Walter J. Fimian, Jr.; 6 weeks; \$13,600  
     William G. Guindon; 6 weeks; \$30,700  
**BOSTON UNIVERSITY**, Boston, Mass.; J. D. Barton, Jr.; 6 weeks; \$41,300  
**BOWDOIN COLLEGE**, Brunswick, Maine; Alton H. Gustafson; 6 weeks; \$37,700  
     Samuel E. Kammerling; 6 weeks; \$38,600  
     Reinhard L. Korgen; 6 weeks; \$60,600  
     Noel C. Little; 6 weeks; \$14,500  
**BOWLING GREEN STATE UNIVERSITY**, Bowling Green, Ohio; Bruce R. Vogeli; 5 weeks; \$41,400  
**BRADLEY UNIVERSITY**, Peoria, Ill.; A. Wayne McGaughey; 6 weeks; \$42,200  
**BRIGHAM YOUNG UNIVERSITY**, Provo, Utah; Lane A. Compton; 9 weeks; \$8,900  
**BROOKLYN COLLEGE**, Brooklyn, N.Y.; Meyer Jordan; 6 weeks; \$35,500  
**BROWN UNIVERSITY**, Providence, R.I.; Lealyn B. Clapp; 6 weeks; \$44,750  
     Elmer R. Smith; 6 weeks; \$59,500  
**BUCKNELL UNIVERSITY**, Lewisburg, Pa.; Lester Kleff; 6 weeks; \$66,500  
**CAPITAL UNIVERSITY**, Columbus, Ohio; Carl F. Slevert; 6 weeks; \$36,800  
**CARLETON COLLEGE**, Northfield, Minn.; Duncan Stewart; 6 weeks; \$48,000  
     Kenneth W. Wegner; 6 weeks; \$52,400  
**CASE INSTITUTE OF TECHNOLOGY**, Cleveland, Ohio; Paul E. Guenther; 7 weeks; \$60,800  
**CATHOLIC UNIVERSITY OF AMERICA**, Washington, D.C.; Raymond W. Moller; 6 weeks; \$52,800  
**CATHOLIC UNIVERSITY OF PUERTO RICO**, Santa Maria, Ponce; Joseph Frohnhoefer; 6 weeks; \$22,200  
**CENTRAL MICHIGAN UNIVERSITY**, Mount Pleasant; Malcolm H. Filson; 8 weeks; \$35,300  
     Carl A. Scheel; 8 weeks; \$41,400  
     Lester H. Serier; 8 weeks; \$75,500  
**CENTRAL MISSOURI STATE COLLEGE**, Warrensburg; Sam P. Hewitt; 10 weeks; \$90,300  
**CENTRAL STATE COLLEGE**, Wilberforce, Ohio; Bernard H. Johnson; 8 weeks; \$33,500  
**CHICAGO PARK DISTRICT**, Ill.; Donald W. Rogers; 4 weeks; \$31,900  
**CITY COLLEGE**, New York, N.Y.; Chester B. Kremer; 6 weeks; \$49,900  
**CLARK UNIVERSITY**, Worcester, Mass.; John S. Stubbe; 6 weeks; \$39,800  
**CLARKSON COLLEGE OF TECHNOLOGY**, Potsdam, N.Y.; F. Gordon Lindsey; 8 weeks; \$96,000  
**CLEMSON COLLEGE**, Clemson, S.C.; Floyd I. Brownley, Jr.; 6 weeks; \$56,800  
**COLBY COLLEGE**, Waterville, Maine; Evans B. Reid; 6 weeks; \$81,700  
**COLGATE UNIVERSITY**, Hamilton, N.Y.; Carl W. Munshower; 6 weeks; \$49,600  
     Oran B. Stanley; 6 weeks; \$60,300  
**COLLEGE OF THE HOLY CROSS**, Worcester, Mass.; Robert B. MacDonnell; 6 weeks; \$57,800  
     Vincent O. McBrien; 6 weeks; \$55,200  
**COLLEGE OF ST. THOMAS**, St. Paul, Minn.; Martin Allen; 6 weeks; \$46,600  
**COLLEGE OF WILLIAM AND MARY**, Williamsburg, Va.; Melvin A. Pittman; 8 weeks; \$119,000  
**COLORADO COLLEGE**, Colorado Springs; Richard G. Beldleman; 8 weeks; \$42,500  
     Richard G. Beldleman; 8 weeks; \$86,600  
     Lester A. Michel; 6 weeks; \$40,300  
**COLORADO SCHOOL OF MINES**, Golden; James L. Hall; 6 weeks; \$46,000  
**COLORADO STATE COLLEGE**, Greeley; Bert O. Thomas; 8 weeks; \$66,700  
**COLORADO STATE UNIVERSITY**, Fort Collins; Edward B. Reed; 8 weeks; \$53,800  
**COLORADO STATE UNIVERSITY RESEARCH FOUNDATION**, Fort Collins; William D. Derbyshire; 8 weeks; \$40,100  
**COLUMBIA UNIVERSITY**, New York, N.Y.; Daniel A. Greenberg; 6 weeks; \$70,900  
**CONVERSE COLLEGE**, Spartanburg, S. C.; Walter James Wyatt; 8 weeks; \$77,600  
**CORNELL UNIVERSITY**, Ithaca, N.Y.; R. William Shaw; 7 weeks; \$71,200  
**DENISON UNIVERSITY**, Granville, Ohio; Robert A. Roberts; 6 weeks; \$48,000  
**DEPAUW UNIVERSITY**, Greencastle, Ind.; Clinton B. Gass; 6 weeks; \$46,400  
**DILLARD UNIVERSITY**, New Orleans, La.; Clifford R. Bryan; 6 weeks; \$29,500  
     Jan Hamer; 6 weeks; \$29,400  
**DRAKE UNIVERSITY**, Des Moines, Iowa; B. E. Gillam; 8 weeks; \$59,100  
     Leland P. Johnson; 9 weeks; \$71,100  
**DREW UNIVERSITY**, Madison, N.J.; Bernard Greenspan; 6 weeks; \$44,300  
**DUKE UNIVERSITY**, Durham, N.C.; Thomas D. Reynolds; 9 weeks; \$136,575  
**EARLHAM COLLEGE**, Richmond, Ind.; Murvel R. Garner; 6 weeks; \$26,900  
**EAST CAROLINA COLLEGE**, Greenville, N.C.; Frank W. Eller; 6 weeks; \$41,900  
**EASTERN ILLINOIS UNIVERSITY**, Charleston; Weldon N. Baker; 8 weeks; \$76,500

**EASTERN MICHIGAN UNIVERSITY, Ypsilanti; James M. Barnes; 6 weeks; \$63,000**

**EASTERN NEW MEXICO UNIVERSITY, Portales; Ruth B. Thomas; 8 weeks; \$79,300**

**EMORY UNIVERSITY, Atlanta, Ga.; Trevor Evans; 7 weeks; \$49,100**

**FISK UNIVERSITY, Nashville, Tenn.; James R. Lawson; 8 weeks; \$82,800**

**FLORIDA STATE UNIVERSITY, Tallahassee; Sherwood M. Reichard; 8 weeks; \$19,000  
James E. Snover; 8 weeks; \$39,900**

**FORDHAM UNIVERSITY, New York, N.Y.; Frederick L. Canavan; 6 weeks; \$48,000**

**FORT HAYS KANSAS STATE COLLEGE, Hays; W. Tolson; 9 weeks; \$56,000**

**FRANKLIN AND MARSHALL COLLEGE, Lancaster, Pa.; Marvin E. Kauffman; 6 weeks; \$83,650  
Donald W. Western; 6 weeks; \$40,300**

**GENERAL EXTENSION DIVISION, OREGON STATE SYSTEM OF HIGHER EDUCATION, Portland; J. Richard Byrne, Portland State College; 8 weeks; \$38,400**

**GEORGE PEABODY COLLEGE FOR TEACHERS, Nashville, Tenn.; H. Craig Sipe; 10 weeks; \$78,800  
H. Craig Sipe; 10 weeks; \$129,000**

**GEORGETOWN UNIVERSITY, Washington, D.C.; Malcolm W. Oliphant; 8 weeks; \$51,600  
Charles L. Koelsche; 10 weeks; \$71,200  
T. H. Whitehead; 10 weeks; \$79,000**

**GRAMBLING COLLEGE, Grambling, La.; Archie L. Lacey, Hunter College; 8 weeks; \$51,500**

**HAMILTON COLLEGE, Clinton, N.Y.; Brewster H. Gere; 6 weeks; \$52,100**

**HAMPTON INSTITUTE, Hampton, Va.; Victor H. Fields; 8 weeks; \$58,000**

**HOPK COLLEGE, Holland, Mich.; Jay E. Folkert; 6 weeks; \$43,200  
Curtis A. Rogers; 6 weeks; \$42,500**

**HOWARD UNIVERSITY, Washington, D.C.; Marie C. Taylor; 8 weeks; \$51,700**

**HUSTON-TILLOTSON COLLEGE, Austin, Tex.; J. H. Morton; 6 weeks; \$50,400**

**ILLINOIS WESLEYAN UNIVERSITY, Bloomington; Wayne W. Wantland; 8 weeks; \$71,800**

**INDIANA UNIVERSITY FOUNDATION, Bloomington; John B. Droste; 6 weeks; \$36,700  
Virgil H. Heniser, Howe High School, Indianapolis; 4 weeks; \$27,400  
George K. Neumann; 8 weeks; \$46,300  
T. G. Perry; 6 weeks; \$34,200  
Frederic C. Schmidt; 8 weeks; \$52,700  
Marie S. Wilcox, T. C. Howe High School, Indianapolis; 6 weeks; \$53,200**

**INTER AMERICAN UNIVERSITY OF PUERTO RICO, San German; Ismael Velez; 5 weeks; \$35,200**

**IOWA STATE UNIVERSITY, Ames; Orlando C. Kreider; 6 weeks; \$81,100  
Leo A. Thomas; 6 weeks; \$20,800**

**JOHNS HOPKINS UNIVERSITY, Baltimore, Md.; William Kelso Morrill, Sr.; 6 weeks; \$64,500**

**JUNIATA COLLEGE, Huntingdon, Pa.; David M. Hercules; 6 weeks; \$40,300**

**KANSAS STATE COLLEGE of Pittsburg; R. G. Smith; 8 weeks; \$76,700**

**KANSAS STATE TEACHERS COLLEGE, Emporia; Otto M. Smith; 12 weeks; \$223,000**

**KANSAS STATE UNIVERSITY, Manhattan; J. R. Chelkowsky; 8 weeks; \$55,200  
Leonard E. Fuller; 8 weeks; \$60,500**

**KENT STATE UNIVERSITY, Kent, Ohio; Kenneth B. Cummins; 8 weeks; \$65,400**

**KENTUCKY RESEARCH FOUNDATION, Lexington; John M. Carpenter; 8 weeks; \$91,300**

**KENYON COLLEGE, Gambier, Ohio; J. M. Pappenbagen; 6 weeks; \$47,170**

**KNOX COLLEGE, Galesburg, Ill.; Herbert Priestley; 8 weeks; \$67,500  
Rothwell Stephens; 6 weeks; \$49,800**

**LAFAYETTE COLLEGE, Easton, Pa.; Charles W. Saalfrank; 6 weeks; \$24,100**

**LEHIGH UNIVERSITY, Bethlehem, Pa.; Clarence A. Shook; 6 weeks; \$48,100**

**LONG BEACH STATE COLLEGE FOUNDATION, Long Beach, Calif.; M. Dale Arvey; 6 weeks; \$28,000**

**LOUISIANA POLYTECHNIC INSTITUTE, Ruston; Donald L. Fernholz; 9 weeks; \$52,500**

**LOUISIANA STATE UNIVERSITY, Baton Rouge; Benjamin E. Mitchell; 9 weeks; \$53,300  
Robert V. Nauman; 9 weeks; \$58,200  
Hulen B. Williams; 9 weeks; \$92,200**

**MACALESTER COLLEGE, St. Paul, Minn.; Russell B. Hastings; 8 weeks; \$72,600**

**UNIVERSITY OF MAINE, Orono; S. H. Kimball; 6 weeks; \$48,200**

**MARQUETTE UNIVERSITY, Milwaukee, Wis.; Raymond A. Bournique; 8 weeks; \$53,900  
L. J. Helder; 6 weeks; \$35,500**

**MARSHALL FOUNDATION, Inc., Huntington, W. Va.; Donald C. Martin; 10 weeks; \$73,000**

**MEMPHIS STATE UNIVERSITY, Memphis, Tenn.; J. W. Fox; 8 weeks; \$77,200  
H. S. Kaltenborn; 8 weeks; \$43,300**

**MIAMI UNIVERSITY, Oxford, Ohio; L. Warren Nelson; 6 weeks; \$63,600  
Bruce V. Weldner; 8 weeks; \$97,100**

**MICHIGAN STATE UNIVERSITY, East Lansing; Sherwood K. Haynes; 11 weeks; \$61,350  
Jack B. Kinsinger; 6 weeks; \$46,750  
T. Wayne Porter; 11 weeks; \$65,200  
John Wagner; 11 weeks; \$83,000**

**MIDDLE TENNESSEE STATE COLLEGE, Murfreesboro; J. Eldred Wiser; 11 weeks; \$103,300**

**MILLERSVILLE STATE COLLEGE, Millersville, Pa.; William B. McIlwaine; 6 weeks; \$30,400**

**MISSISSIPPI SOUTHERN COLLEGE, Hattiesburg; John H. Allen; 9 weeks; \$87,000  
B. O. VanHook; 9 weeks; \$57,700**

**MONTANA STATE COLLEGE, Bozeman; L. O. Binder; 10 weeks; \$44,900  
William B. Cook; 6 weeks; \$39,800  
William G. Walter; 5 weeks; \$27,600**

**MONTANA STATE UNIVERSITY, Missoula; Gordon B. Castle; 8 weeks; \$14,900  
James W. Gebhart; 10 weeks; \$78,400  
William M. Myers; 10 weeks; \$76,000**

**MORGAN STATE COLLEGE, Baltimore, Md.; Thomas P. Fraser; 6 weeks; \$63,000**

**MURRAY STATE COLLEGE FOUNDATION, Murray, Ky.; Walter E. Blackburn; 8 weeks; \$63,800**

**NEBRASKA WESLEYAN UNIVERSITY, Lincoln; Walter R. French, Jr.; 8 weeks; \$67,400**



NEW MEXICO HIGHLANDS UNIVERSITY, Las Vegas; R. A. Deering; 7 weeks; \$37,800  
 Galen W. Ewing; 4 weeks; \$34,200  
 Clarence G. Struckwisch; 10 weeks; \$89,100

NEW MEXICO STATE UNIVERSITY, University Park; E. L. Cleveland; 8 weeks; \$51,300

NORTH CAROLINA COLLEGE at Durham; William H. Robinson; 6 weeks; \$77,900

NORTH DAKOTA STATE UNIVERSITY, Fargo; F. L. Minnear; 8 weeks; \$94,000

NORTHEAST LOUISIANA STATE COLLEGE, Monroe; William K. Easley; 9 weeks; \$37,900  
 B. Earl Prince; 9 weeks; \$42,200

NORTHEAST MISSOURI STATE TEACHERS COLLEGE, Kirksville; Dean A. Rosebery; 8 weeks; \$74,900

NORTHERN MICHIGAN COLLEGE, Marquette; Holmes Boynton; 8 weeks; \$43,100  
 Roy E. Heath; 8 weeks; \$48,700

NORTHWESTERN STATE COLLEGE OF LOUISIANA, Natchitoches; James A. Noel; 9 weeks; \$64,500

NORTHWESTERN UNIVERSITY, Evanston, Ill.; E. H. C. Hildebrandt; 8 weeks; \$75,800

OAK RIDGE INSTITUTE OF NUCLEAR STUDIES, Inc., Oak Ridge, Tenn.; W. W. Grigorleff; 8 weeks; \$33,200  
 Ralph T. Overman; 4 weeks; \$6,100

OBERLIN COLLEGE, Oberlin, Ohio; E. P. Vance; 8 weeks; \$122,100

OHIO STATE UNIVERSITY, Columbus, Ohio; Robert C. Fisher; 8 weeks; \$91,300  
 A. B. Garrett; 6 weeks; \$49,750  
 John S. Richardson; 8 weeks; \$77,800  
 Edmund M. Spieker; 10 weeks; \$42,400

OHIO UNIVERSITY FUND, Inc., Athens; Lawrence P. Eblin; 6 weeks; \$60,700

OHIO WESLEYAN UNIVERSITY, Delaware; Arthur C. Breyer; 8 weeks; \$52,100  
 William D. Stull; 8 weeks; \$81,700

OKLAHOMA BAPTIST UNIVERSITY, Shawnee; Jack O. Purdue; 8 weeks; \$51,300

OKLAHOMA STATE UNIVERSITY, Stillwater; L. Herbert Bruneau; 9 weeks; \$73,800  
 James H. Zant; 8 weeks; \$67,600

OREGON STATE UNIVERSITY, Corvallis; Albert R. Poole; 8 weeks; \$64,500  
 Stanley E. Williamson; 8 weeks; \$65,500

PENNSYLVANIA STATE UNIVERSITY, University Park; William H. Powers; 6 weeks; \$107,100

PRAET INSTITUTE, Brooklyn, N.Y.; John Michael O'Gorman; 6 weeks; \$40,400

PRINCETON UNIVERSITY, Princeton, N.J.; A. J. Maruca; 7 weeks; \$54,200

PURDUE UNIVERSITY, Lafayette, Ind.; D. A. Davenport; 8 weeks; \$64,900  
 M. Wiles Keller; 8 weeks; \$68,200  
 J. D. Novak; 8 weeks; \$68,800  
 I. Walerstein; 8 weeks; \$46,000  
 I. Walerstein; 8 weeks; \$44,300

RANDOLPH-MACON WOMAN'S COLLEGE, Lynchburg, Va.; Helen L. Whidden; 6 weeks; \$61,000

REED COLLEGE, Portland, Ore.; Frederick A. Courts; 8 weeks; \$41,400  
 John Leadley; 8 weeks; \$95,700  
 Arthur H. Livermore; 6 weeks; \$43,000

RENSSELAER POLYTECHNIC INSTITUTE, Troy, N.Y.; A. A. K. Booth; 8 weeks; \$145,800

RESEARCH FOUNDATION OF STATE UNIVERSITY OF NEW YORK, Albany; M. Ira Dubins, Oneonta; 8 weeks; \$51,900  
 Alexander G. Major, Potsdam; 6 weeks; \$64,300

RUTGERS, THE STATE UNIVERSITY, New Brunswick, N.J.; Joshua Barlaz; 6 weeks; \$55,700  
 Richard K. Olsson; 6 weeks; \$41,100  
 Paul G. Pearson; 6 weeks; \$43,500  
 Robert L. Sells; 7 weeks; \$54,800

SACRAMENTO STATE COLLEGE FOUNDATION, Sacramento, Calif.; Carl E. Ludwig; 6 weeks; \$60,800  
 Siegfried Nussenbaum; 6 weeks; \$39,800

ST. AUGUSTINE'S COLLEGE, Raleigh, N.C.; Jeffrey Gipson; 6 weeks; \$50,400

ST. CLOUD STATE COLLEGE, St. Cloud, Minn.; Harold Hopkins; 5 weeks; \$48,800

ST. LOUIS UNIVERSITY, St. Louis, Mo.; Francis Regan; 6 weeks; \$48,300  
 Arthur G. Rouse; 6 weeks; \$23,600

ST. MARY'S COLLEGE, Winona, Minn.; L. George; 8 weeks; \$19,000

SAN DIEGO STATE COLLEGE FOUNDATION, San Diego, Calif.; Allen M. Bassett; 8 weeks; \$37,600  
 Clifford E. Smith; 9 weeks; \$58,750

SAN JOSE STATE COLLEGE CORPORATION, San Jose, Calif.; Leonard I. Holder; 6 weeks; \$38,500  
 W. H. Myers; 6 weeks; \$57,100

SARAH LAWRENCE COLLEGE, Bronxville, N.Y.; Edward J. Cogan; 6 weeks; \$34,800

SEATTLE UNIVERSITY, Seattle, Wash.; Ernest Bertin; 8 weeks; \$75,100

SETON HILL COLLEGE, Greensburg, Pa.; Sister Mary Thaddeus; 6 weeks; \$43,200

SIMMONS COLLEGE, Boston, Mass.; Philip M. Richardson; 6 weeks; \$24,600  
 John A. Timm; 6 weeks; \$24,400

SOUTH CAROLINA STATE COLLEGE, Orangeburg; George W. Hunter; 8 weeks; \$73,300

SOUTH DAKOTA SCHOOL OF MINES AND TECHNOLOGY, Rapid City; Howard C. Peterson; 8 weeks; \$128,800

SOUTH DAKOTA STATE COLLEGE, Brookings; Kenneth E. Howard; 8 weeks; \$80,300

SOUTHEASTERN LOUISIANA COLLEGE, Hammond; Robert W. Kelly; 9 weeks; \$64,700

SOUTHEASTERN STATE COLLEGE, Durant, Okla.; Leslie A. Dwight; 8 weeks; \$72,300

SOUTHERN ILLINOIS UNIVERSITY, Carbondale; Morton R. Kenner; 8 weeks; \$62,300  
 I. L. Shechmeister; 8 weeks; \$62,100

SOUTHERN METHODIST UNIVERSITY, Dallas, Tex.; Joe P. Harris, Jr.; 6 weeks; \$31,000  
 Joe P. Harris, Jr.; 8 weeks; \$39,500

SOUTHERN UNIVERSITY AND AGRICULTURAL AND MECHANICAL COLLEGE, Baton Rouge, La.; Rogers J. Newman; 8 weeks; \$36,600  
 Spaulding M. Ruffin; 8 weeks; \$35,500  
 Lee B. Stephens; 8 weeks; \$59,500

SOUTHWESTERN STATE COLLEGE, Weatherford, Okla.; Earl A. Reynolds; 8 weeks; \$50,700

STANFORD UNIVERSITY, Stanford, Calif.; Harold M. Bacon; 6 weeks; \$52,400

STATE COLLEGE OF IOWA, Cedar Falls; Irvin H. Brune; 8 weeks; \$59,800  
 Dorothy C. Matala; 8 weeks; \$62,700

STATE UNIVERSITY OF SOUTH DAKOTA, Vermillion; M. M. Hasse; 8 weeks; \$77,900  
 Robert L. Stevenson; 8 weeks; \$65,900

STEPHEN F. AUSTIN STATE COLLEGE, Nacogdoches, Tex.; E. L. Miller; 6 weeks; \$30,400

STEVENS INSTITUTE OF TECHNOLOGY, Hoboken, N.J.; Robert H. Seavy; 6 weeks; \$64,700

SYRACUSE UNIVERSITY, Syracuse, N.Y.; John G. Burdick; 6 weeks; \$51,150  
 Robert B. Davis; 6 weeks; \$51,700  
 William R. Frederickson; 6 weeks; \$62,500

TEACHERS COLLEGE, COLUMBIA UNIVERSITY, New York, N.Y.; Howard F. Fehr; 6 weeks; \$40,300  
 Frederick L. Fitzpatrick; 6½ weeks; \$30,800

TEMPLE UNIVERSITY, Philadelphia, Pa.; John M. Mickelson; 9 weeks; \$48,700  
 Elmer L. Offenbacher; 9 weeks; \$88,200

TENNESSEE AGRICULTURAL AND INDUSTRIAL STATE UNIVERSITY, Nashville; Rutherford H. Adkins; 8 weeks; \$50,400

TEXAS CHRISTIAN UNIVERSITY, Fort Worth; John W. Forsyth; 6 weeks; \$92,200

TEXAS COLLEGE OF ARTS AND INDUSTRIES, Kingsville; James M. Robinson, Jr.; 6 weeks; \$29,100

TEXAS SOUTHERN UNIVERSITY, Houston; Robert J. Terry; 12 weeks; \$94,200

TEXAS TECHNOLOGICAL COLLEGE, Lubbock; Earl D. Camp; 9 weeks; \$86,700  
 Charles L. Riggs; 9 weeks; \$66,700

TEXAS WOMAN'S UNIVERSITY, Denton; Harold T. Baker; 9 weeks; \$21,300  
 Harlan C. Miller; 6 weeks; \$39,200

THIEL COLLEGE, Greenville, Pa.; Bela G. Kolossvary; 6 weeks; \$50,800

TUFTS UNIVERSITY, Medford, Mass.; M. Kent Wilson; 6 weeks; \$44,400

TULANE UNIVERSITY, New Orleans, La.; Gall S. Young; 9 weeks; \$75,800

TUSKEGEE INSTITUTE, Tuskegee Institute, Ala.; Lawrence F. Koons; 8 weeks; \$58,300

UNION COLLEGE & UNIVERSITY, Schenectady, N.Y.; D. K. Baker; 8 weeks; \$130,800

UNIVERSITY OF ALASKA, College; William R. Cashen; 8 weeks; \$70,000

UNIVERSITY OF ARIZONA, Tucson; Millard G. Seeley; 8 weeks; \$65,500  
 Arthur H. Steinbrenner; 8 weeks; \$63,900

UNIVERSITY OF ARKANSAS, Fayetteville; William R. Orton; 6 weeks; \$48,400  
 Leo J. Paulissen; 6 weeks; \$59,600

UNIVERSITY OF CALIFORNIA, Berkeley; Gideon T. James; 8 weeks; \$62,700  
 Lola S. Kelly; 8 weeks; \$28,500  
 Mario Menesini; 8 weeks; \$64,400  
 Roderick B. Park; 6 weeks; \$39,550  
 Clifford Bell, Los Angeles; 6 weeks; \$33,200  
 Robert L. Pecsok, Los Angeles; 6 weeks; \$30,850  
 Norman A. Watson, Los Angeles; 6 weeks; \$29,200  
 William H. Meyer, Santa Barbara; 6 weeks; \$49,800

UNIVERSITY OF CINCINNATI, Ohio; H. David Lipsich; 6 weeks; \$51,800

UNIVERSITY OF COLORADO, Boulder; John M. Cleveland; 8 weeks; \$54,000

John R. Clopton; 8 weeks; \$113,700  
 Leon W. Rutland, Jr.; 8 weeks; \$40,900

UNIVERSITY OF CONNECTICUT, Storrs; David J. Bick; 6 weeks; \$59,700

UNIVERSITY OF DAYTON, Dayton, Ohio; K. C. Schraut; 6 weeks; \$40,300

UNIVERSITY OF DELAWARE, Newark; John A. Brown; 6 weeks; \$29,800

UNIVERSITY OF FLORIDA, Gainesville; N. Eldred Bingham; 8 weeks; \$50,800  
 H. H. Sisler; 8 weeks; \$63,100

UNIVERSITY OF HAWAII, Honolulu; Sidney C. Hsiao; 6 weeks; \$15,800  
 Harry Zeitlin; 6 weeks; \$67,900

UNIVERSITY OF IDAHO, Moscow; William F. Barr; 8 weeks; \$28,800  
 Edgar H. Grahn; 8 weeks; \$97,200  
 Hans Sagan; 8 weeks; \$43,400

UNIVERSITY OF ILLINOIS, Urbana; Max Beberman; 6 weeks; \$220,450  
 Halm Reingold; 8 weeks; \$105,800

UNIVERSITY OF KANSAS, Lawrence; Edward I. Shaw; 8 weeks; \$19,000

UNIVERSITY OF MARYLAND, College Park; Joshua R. C. Brown; 7 weeks; \$85,600

UNIVERSITY OF MINNESOTA, Minneapolis; William H. Marshall; 5 weeks; \$20,400  
 Paul R. O'Connor; 6 weeks; \$40,500  
 Frank Verbrugge; 10 weeks; \$114,650  
 Blanchard O. Krogstad, Duluth; 5 weeks; \$26,500  
 Francis A. Spurrell, St. Paul; 6 weeks; \$14,500

UNIVERSITY OF MISSISSIPPI, University; Noel A. Childress; 11 weeks; \$115,400

UNIVERSITY OF MISSOURI, Columbia; Robert E. Brooks; 8 weeks; \$60,000  
 Paul B. Burcham; 8 weeks; \$51,000  
 Wesley J. Dale; 8 weeks; \$64,900  
 Harold Q. Fuller; 8 weeks; \$96,500

UNIVERSITY OF NEBRASKA, Lincoln; Wendell L. Gauger; 8 weeks; \$90,900  
 Walter E. Mientka; 8 weeks; \$52,100

UNIVERSITY OF NEVADA, Reno; R. N. Thompson; 6 weeks; \$47,800

UNIVERSITY OF NEW HAMPSHIRE, Durham; Harold A. Iddles; 8 weeks; \$79,300

UNIVERSITY OF NEW MEXICO, Albuquerque; Frank C. Gentry; 8 weeks; \$65,200  
 Loren D. Potter; 9 weeks; \$21,500

UNIVERSITY OF NORTH CAROLINA, Chapel Hill; Edward A. Cameron; 6 weeks; \$91,900  
 Roy L. Ingram; 6 weeks; \$38,800  
 Joseph W. Straley; 6 weeks; \$33,310

UNIVERSITY OF NORTH DAKOTA, Grand Forks; J. Donald Henderson; 8 weeks; \$80,600

UNIVERSITY OF NOTRE DAME, Notre Dame, Ind.; Emil T. Hofman; 7 weeks; \$73,100  
 Arnold E. Ross; 7 weeks; \$162,600

UNIVERSITY OF OKLAHOMA, Norman; H. E. Hoffman; 8 weeks; \$38,700  
 H. E. Hoffman; 4 weeks; \$40,300  
 H. E. Hoffman; 9 weeks; \$64,700  
 H. E. Hoffman; 9 weeks; \$64,900

UNIVERSITY OF OREGON, Corvallis; A. F. Moursund; 8 weeks; \$65,400  
 Arnold L. Soderwall; 8 weeks; \$35,000

UNIVERSITY OF PENNSYLVANIA, Philadelphia; J. F. Hazel; 6 weeks; \$80,600

UNIVERSITY OF PITTSBURGH, Pa.; John C. Knipp; 6 weeks; \$31,800

UNIVERSITY OF PORTLAND, Portland, Oreg.; C. W. Bonhorst; 6 weeks; \$34,900

UNIVERSITY OF PUERTO RICO, Rio Piedras; Augusto Bobonis; 8 weeks; \$95,200  
 Juan D. Curet; 7 weeks; \$70,225  
 Mariano Garcia; 7 weeks; \$60,575

UNIVERSITY OF REDLANDS, Redlands, Calif.; Reinhold J. Krantz; 9 weeks; \$57,175

UNIVERSITY OF RHODE ISLAND, Kingston; William E. Werner; 6 weeks; \$43,000

UNIVERSITY OF ROCHESTER, Rochester, N.Y.; John J. Montean; 6 weeks; \$40,000  
 John J. Montean; 6 weeks; \$39,000

UNIVERSITY OF THE SOUTH, Sewanee, Tenn.; H. Malcolm Owen; 8 weeks; \$60,700

UNIVERSITY OF SOUTH CAROLINA, Columbia; W. L. Williams; 8 weeks; \$85,400

UNIVERSITY OF SOUTHERN CALIFORNIA, Los Angeles; Paul A. White; 6 weeks; \$43,300

UNIVERSITY OF SOUTHWESTERN LOUISIANA, Lafayette; James R. Oliver; 9 weeks; \$53,800  
 James R. Oliver; 9 weeks; \$54,900  
 James R. Oliver; 9 weeks; \$57,400

UNIVERSITY OF TENNESSEE, Knoxville; Edgar D. Eaves; 8 weeks; \$62,500

UNIVERSITY OF TEXAS, Austin; Addison E. Lee; 9 weeks; \$117,075

UNIVERSITY OF UTAH, Salt Lake City; Robert Anderson; 8 weeks; \$36,900  
 E. Allan Davis; 7 weeks; \$65,400  
 Thomas J. Parmley; 8 weeks; \$70,000  
 Robert C. Pendleton; 8 weeks; \$18,800

UNIVERSITY OF VERMONT, Burlington; N. James Schoomaker; 7 weeks; \$67,000  
 Nelson L. Walbridge; 8 weeks; \$65,100

UNIVERSITY OF VIRGINIA, Charlottesville; James W. Cole, Jr.; 8 weeks; \$74,378  
 William C. Lowry; 8 weeks; \$40,700

UNIVERSITY OF WASHINGTON, Seattle; Richard H. Fleming; 9 weeks; \$47,500  
 L. A. Sanderman; 8 weeks; \$52,400

UNIVERSITY OF WISCONSIN, Madison; Robert A. Jaggard, Milwaukee; 8 weeks; \$62,700

UNIVERSITY OF WYOMING, Laramie; Carl A. Cinnamon; 8 weeks; \$20,400  
 Samuel W. Harding; 10 weeks; \$99,900  
 W. Norman Smith; 5 weeks; \$49,000

UTAH STATE UNIVERSITY, Logan; Merrill H. Gunnell; 10 weeks; \$81,500  
 Neville C. Hunsaker; 10 weeks; \$79,700

VALPARAISO UNIVERSITY, Valparaiso, Ind.; Arthur E. Hallerberg; 7 weeks; \$40,900

VASSAR COLLEGE, Poughkeepsie, N.Y.; John H. Johnson; 6 weeks; \$37,700

VILLANOVA UNIVERSITY, Villanova, Pa.; J. Bernard Hubbert; 6 weeks; \$44,700

VIRGINIA STATE COLLEGE, Petersburg; Richard H. Dunn; 8 weeks; \$111,800

WAKE FOREST COLLEGE, Winston-Salem, N.C.; John W. Nowell; 6 weeks; \$58,700  
 George P. Williams, Jr.; 6 weeks; \$24,825

WASHINGTON STATE UNIVERSITY, Pullman; Alfred B. Butler; 8 weeks; \$92,500  
 Sidney G. Hacker; 8 weeks; \$64,800

WAYNE STATE UNIVERSITY, Detroit, Mich.; Walter Chavin; 8 weeks; \$19,000  
 John T. Sanford; 8 weeks; \$64,900

WESLEYAN UNIVERSITY, Middletown, Conn.; Joseph S. Daltry; 6 weeks; \$99,000

WEST VIRGINIA UNIVERSITY, Morgantown; James B. Hickman; 10 weeks; \$95,600

WEST VIRGINIA WESLEYAN COLLEGE, Buckhannon; John C. Wright; 6 weeks; \$59,200

WESTERN ILLINOIS UNIVERSITY, Macomb; Arnold Wendt; 6 weeks; \$31,400

WESTERN MARYLAND COLLEGE, Westminster; Harwell P. Sturdivant; 6 weeks; \$38,600

WESTERN RESERVE UNIVERSITY, Cleveland, Ohio; William M. Heston; 11 weeks; \$130,000

WESTERN WASHINGTON STATE COLLEGE, Bellingham; James S. Martin; 8 weeks; \$45,400  
 Sheldon T. Rio; 9 weeks; \$59,700

WILLAMETTE UNIVERSITY, Salem, Oreg.; Paul M. Duell; 6 weeks; \$47,700

WISCONSIN STATE COLLEGE, River Falls; Richard J. Delorit; 4 weeks; \$40,600

WITENBERG UNIVERSITY, Springfield, Ohio; Everett H. Bush; 8 weeks; \$45,500

YALE UNIVERSITY, New Haven, Conn.; Stuart R. Brinkley; 6 weeks; \$86,000

**SUMMER INSTITUTES FOR ELEMENTARY SCHOOL PERSONNEL**

ARIZONA STATE UNIVERSITY, Tempe; Theodore W. Munch; 6 weeks; \$32,800

BELOIT COLLEGE, Beloit, Wis.; Edwin F. Wilde; 6 weeks; \$29,300

BIRMINGHAM-SOUTHERN COLLEGE, Birmingham, Ala.; Hoyt M. Kaylor; 8 weeks; \$37,700

DEPAUW UNIVERSITY, Greencastle, Ind.; Clinton B. Gass; 6 weeks; \$25,500

EASTERN MICHIGAN UNIVERSITY, Ypsilanti; Albert W. Brown; 6 weeks; \$34,500

HOWARD COLLEGE, Birmingham, Ala.; R. E. Wheeler; 6 weeks; \$32,100

NEW MEXICO STATE UNIVERSITY, University Park; Darrell S. Willey; 6 weeks; \$32,200

NORTHERN ILLINOIS UNIVERSITY, DeKalb; Frederick W. Rolf; 8 weeks; \$46,300

NORTHERN MICHIGAN COLLEGE, Marquette; Henry S. Helmonen; 6 weeks; \$31,900

PRAIRIE VIEW AGRICULTURAL AND MECHANICAL COLLEGE; Prairie View, Tex.; Israel E. Glover; 6 weeks; \$27,700

RUTGERS, THE STATE UNIVERSITY, New Brunswick, N.J.; Guido Weigend; 6 weeks; \$36,200

SAN JOSE STATE COLLEGE FOUNDATION, San Jose, Calif.; John L. Marks; 6 weeks; \$34,000

SOUTHEASTERN STATE COLLEGE, Durant, Okla.; Leslie A. Dwight; 4 weeks; \$21,000

STATE TEACHERS COLLEGE, Minot, N. Dak.; Cyril C. Moore; 8 weeks; \$36,300

UNIVERSITY OF BUFFALO, Buffalo, N.Y.; Stephen S. Winter; 6 weeks; \$32,100

UNIVERSITY OF GEORGIA, Athens; Charles L. Koelsche; 10 weeks; \$36,300

UNIVERSITY OF MARYLAND, College Park; John R. Mayor; 6 weeks; \$32,800

UNIVERSITY OF NORTH DAKOTA, Grand Forks; Bernt L. Wills; 8 weeks; \$42,200

UNIVERSITY OF OREGON, Eugene; James C. Stovall; 8 weeks; \$42,400

UNIVERSITY OF UTAH, Salt Lake City; L. Edwin Hirschi; 8 weeks; \$38,500  
WEBSTER COLLEGE, Webster Groves, Mo.; Robert B. Davis, Syracuse University; 6 weeks; \$30,300

### SUMMER SCIENCE TRAINING PROGRAM FOR SECONDARY SCHOOL STUDENTS

AGRICULTURAL AND MECHANICAL COLLEGE OF TEXAS, College Station; Melvin Eisner; 6 weeks; \$9,400

William S. McCulley; 6 weeks; \$8,650  
John J. Sperry; 6 weeks; \$5,760

ALBERT EINSTEIN MEDICAL CENTER, Philadelphia, Pa.; Samuel J. Aji; 8 weeks; \$4,780  
AMERICAN MUSEUM-HAYDEN PLANETARIUM, New York, N.Y.; Franklyn M. Branley; 4 weeks; \$8,260

AMERICAN UNIVERSITY, Washington, D.C.; Leo Schubert; 9 weeks; \$8,050

APPALACHIAN STATE TEACHERS COLLEGE, Boone, N.C.; F. Ray Derrick; 5 weeks; \$16,290

ARIZONA STATE COLLEGE, Flagstaff; J. Harvey Butchart; 5 weeks; \$7,560

ASSUMPTION COLLEGE, Worcester, Mass.; Alfons J. van der Linden; 6 weeks; \$16,460

AUBURN UNIVERSITY, Auburn, Ala.; Joseph T. Hood; 8 weeks; \$8,960

AUGSBURG COLLEGE AND THEOLOGICAL SEMINARY, Minneapolis, Minn.; Courtland L. Agre; 6 weeks; \$10,130

BENNETT COLLEGE, Greensboro, N.C.; J. Henry Sayles; 6 weeks; \$28,150

BOWLING GREEN STATE UNIVERSITY, Bowling Green, Ohio; W. H. Hall; 7 weeks; \$7,000

BOYCE THOMPSON INSTITUTE FOR PLANT RESEARCH, INC., Yonkers, N.Y.; Lawrence P. Miller; 6 weeks; \$6,100

BRANDEIS UNIVERSITY, Waltham, Mass.; Philip A. St. John; 6 weeks; \$3,580

BROWN UNIVERSITY, Providence, R.I.; Charles B. MacKay; 6 weeks; \$24,960

BUCKNELL UNIVERSITY, Lewisburg, Pa.; Lester Kieft; 6 weeks; \$9,910

BUTLER UNIVERSITY, Indianapolis, Ind.; William H. Bessey; 7 weeks; \$7,360

CAPE HAZE MARINE LABORATORY, Sarasota, Fla.; Eugenie Clark; 8 weeks; \$2,240

CARNEGIE INSTITUTE OF TECHNOLOGY, Pittsburgh, Pa.; Edward R. Schatz; 9 weeks; \$8,790

CASE INSTITUTE OF TECHNOLOGY, Cleveland, Ohio; L. J. Green; 7 weeks; \$6,070

CITY COLLEGE, New York, N.Y.; Chester B. Kremer; 6 weeks; \$13,970

CLARKSON COLLEGE OF TECHNOLOGY, Potsdam, N.Y.; Harry S. Bingham; 8 weeks; \$24,700

CLARK UNIVERSITY, Worcester, Mass.; Roy S. Anderson; 10 weeks; \$1,340

COLLEGE OF THE HOLY NAMES, Oakland, Calif.; Sister Mary Baptista; 6 weeks; \$11,990

COLORADO COLLEGE, Colorado Springs; Richard G. Beldeman; 8 weeks; \$13,410

COLORADO SCHOOL OF MINES, Golden; James L. Hall; 6 weeks; \$14,715

COMMITTEE FOR ADVANCED SCIENCE TRAINING, Los Angeles, Calif.; Harry Sobel; 10 weeks; \$8,520

CORNELL UNIVERSITY, Ithaca, N.Y.; Philip G. Johnson; 7 weeks; \$4,960

DENISON UNIVERSITY, Granville, Ohio; Robert W. Alrutz; 8 weeks; \$10,310

DEPAUL UNIVERSITY, Chicago, Ill.; John R. Cortelyou; 8 weeks; \$2,330

EMORY & HENRY COLLEGE, Emory, Va.; Marius Blesi; 5 weeks; \$12,760

EMORY UNIVERSITY, Atlanta, Ga.; James C. Lester; 5 weeks; \$26,170

FLORIDA STATE UNIVERSITY, Tallahassee; Robert Kallin; 6 weeks; \$11,000

GENERAL EXTENSION DIVISION, OREGON STATE SYSTEM OF HIGHER EDUCATION, Portland; Robert L. Broussard; 8 weeks; \$11,420

GEORGETOWN UNIVERSITY, Washington, D.C.; Lawrence S. Lillienfeld; 9 weeks; \$7,500

GRAMBLING COLLEGE, Grambling, La.; Emile C. Fonsworth; 8 weeks; \$18,650

GRINNELL COLLEGE, Grinnell, Iowa; Neil D. Kent; 7 weeks; \$20,750

HIRAM COLLEGE, Hiram, Ohio; Edward B. Rosser; 6 weeks; \$13,140

HOWARD UNIVERSITY, Washington, D.C.; Herman Branson; 8 weeks; \$17,250

HUMBOLDT STATE COLLEGE FOUNDATION, Arcata, Calif.; John E. Butler; 6 weeks; \$17,870

HUNTER COLLEGE, New York, N.Y.; Melvin S. Schwartz; 6 weeks; \$7,460

Henry D. Thompson; 5 weeks; \$4,820

ILLINOIS INSTITUTE OF TECHNOLOGY, Chicago; Haim Reingold; 36 weeks; \$18,720

INDIANA UNIVERSITY, Bloomington; Paul Klinge; 8 weeks; \$24,120

John B. Patton; 10 weeks; \$2,200

INTER AMERICAN UNIVERSITY OF PUERTO RICO, San German; Ismael Velez; 5 weeks; \$11,930

Ismael Velez; 3 weeks; \$5,780

JACKSON STATE COLLEGE, Jackson, Miss.; Benjamin H. McLemore; 8 weeks; \$14,300

KANSAS STATE TEACHERS COLLEGE, Emporia; Otto M. Smith; 6 weeks; \$14,780

KENTUCKY STATE COLLEGE, Frankfort; Lloyd E. Alexander; 8 weeks; \$15,810

LEHIGH UNIVERSITY, Bethlehem, Pa.; Albert Wilansky; 6 weeks; \$7,020

LEMOYNE COLLEGE, Memphis, Tenn.; W. W. Gibson; 6 weeks; \$9,860

LIVINGSTON STATE COLLEGE, Livingston, Ala.; Lillian C. Manley; 6 weeks; \$5,230

LOUISIANA POLYTECHNIC INSTITUTE, Ruston; William R. Higgs; 9 weeks; \$15,920

LOUISIANA STATE UNIVERSITY, Baton Rouge; John F. Christman; 9 weeks; \$24,340

LOYOLA UNIVERSITY, Chicago, Ill.; Thomas E. Malone; 8 weeks; \$9,930

MANCHESTER COLLEGE, North Manchester, Ind.; Harry R. Weimer; 8 weeks; \$9,380

MANHATTAN COLLEGE, New York, N.Y.; C. Leonard O'Connor; 6 weeks; \$11,550

MICHIGAN STATE UNIVERSITY, East Lansing; M. Isobel Blyth; 6 weeks; \$23,310

MISSISSIPPI STATE UNIVERSITY, State College; Clyde Q. Sheely; 4 weeks; \$19,620

MORGAN STATE COLLEGE, Baltimore Md.; John W. King; 6 weeks; \$20,020

MORRIS BROWN COLLEGE, Atlanta, Ga.; James H. Penn; 8 weeks; \$17,250

MURRAY STATE COLLEGE FOUNDATION, Murray, Ky.; W. E. Blackburn; 8 weeks; \$23,520

NEWARK COLLEGE OF ENGINEERING RESEARCH FOUNDATION, Newark, N.J.; Joseph M. Fitzgerald; 6 weeks; \$5,300

NEW MEXICO HIGHLANDS UNIVERSITY, Las Vegas; Lora M. Shields; 6 weeks; \$15,000

NORTH CAROLINA COLLEGE AT DURHAM; James S. Lee; 7 weeks; \$20,000

NORTH DAKOTA STATE UNIVERSITY, Fargo; J. A. Callenbach; 10 weeks; \$1,670  
Donald Schwartz; 8 weeks; \$2,090

NORTHEASTERN UNIVERSITY, Boston, Mass.; Charles M. Goolsby; 6 weeks; \$19,550

NORTHERN MICHIGAN COLLEGE, Marquette; John P. Farrell; 6 weeks; \$14,150

NORTHWESTERN STATE COLLEGE OF LOUISIANA, Natchitoches; Richard E. Garth; 9 weeks; \$7,430

NORTHWESTERN UNIVERSITY, Evanston, Ill.; F. G. Seulberger; 5 weeks; \$28,070

OHIO STATE UNIVERSITY, Columbus; Paul T. Yarrington; 9 weeks; \$17,300

OHIO WESLEYAN UNIVERSITY, Delaware; Thomas S. Oey; 10 weeks; \$1,970

OKLAHOMA STATE UNIVERSITY, Stillwater; L. F. Sheerar; 6 weeks; \$15,300

OREGON STATE UNIVERSITY, Corvallis; R. E. Gaskell; 7 weeks; \$21,560  
John F. Tatom; 6 weeks; \$12,930

PENNSYLVANIA STATE UNIVERSITY, University Park; Richard D. Schein; 8 weeks; \$2,000

PRAIRIE VIEW AGRICULTURAL AND MECHANICAL COLLEGE, Prairie View, Tex.; Israel E. Glover; 6 weeks; \$7,780  
E. E. O'Banion; 6 weeks; \$8,220

PURDUE UNIVERSITY, Lafayette, Ind.; Richard C. Dodson; 8 weeks; \$20,210

ROLLINS COLLEGE, Winter Park, Fla.; Bruce B. Wavell; 6 weeks; \$7,620

ROSCOE B. JACKSON MEMORIAL LABORATORY, Bar Harbor, Maine; John L. Fuller; 10 weeks; \$15,720

ROSWELL PARK MEMORIAL INSTITUTE, Buffalo, N.Y.; Edwin Mirand; 9 weeks; \$18,945

ST. LOUIS UNIVERSITY, St. Louis, Mo.; John J. Andrews; 4 weeks; \$5,680

SAN DIEGO STATE COLLEGE FOUNDATION, San Diego, Calif.; Edmund I. Deaton; 6 weeks; \$8,640

SAN FERNANDO VALLEY STATE COLLEGE FOUNDATION, Northridge, Calif.; Lorence G. Collins; 6 weeks; \$7,740

SAN JOSE STATE COLLEGE FOUNDATION, San Jose, Calif.; Benjamin F. Naylor; 6 weeks; \$14,350

SOUTH DAKOTA STATE COLLEGE, Brookings; Stanley Sundet; 6 weeks; \$7,920

SOUTHEASTERN STATE COLLEGE, Durant, Okla.; Leslie Dwight; 6 weeks; \$6,700

SOUTHERN ILLINOIS UNIVERSITY, Carbondale; Howard G. Applegate; 6 weeks; \$600  
George H. Gass; 8 weeks; \$19,690

SOUTHERN METHODIST UNIVERSITY, Dallas, Tex.; Frank J. Palas; 6 weeks; \$8,910

SOUTHERN STATE COLLEGE, Magnolia, Ark.; John J. Chapman; 6 weeks; \$5,350

STATE UNIVERSITY OF IOWA, Iowa City; Robert E. Yager; 8 weeks; \$29,370

STATE UNIVERSITY OF SOUTH DAKOTA, Vermillion; Wayne W. Gutzman; 6 weeks; \$10,450

SYRACUSE UNIVERSITY, Syracuse, N.Y.; Alfred T. Collette; 6 weeks; \$16,270

TEMPLE UNIVERSITY, Philadelphia, Pa.; Walter S. Lawton; 6 weeks; \$9,270

TEXAS COLLEGE, Tyler; Sekender A. Khan; 6 weeks; \$8,310

TOUGALOO SOUTHERN CHRISTIAN COLLEGE, Tougaloo, Miss.; A. A. Branch; 6 weeks; \$17,310

TUFTS UNIVERSITY, Medford, Mass.; William Stergios, Braintree; 10 weeks; \$25,550

UNIVERSITY OF ALASKA, College; William S. Wilson; 6 weeks; \$17,900

UNIVERSITY OF ARIZONA, Tucson; Thomas L. Martin, Jr.; 6 weeks; \$17,050  
John W. Robson; 10 weeks; \$7,230

UNIVERSITY OF BRIDGEPORT, Bridgeport, Conn.; Earle M. Bigsbee; 7 weeks; \$25,000

UNIVERSITY OF BUFFALO, Buffalo, N.Y.; Harriet F. Montague; 6 weeks; \$3,370

UNIVERSITY OF CALIFORNIA, Berkeley; Howard A. Shugart; 9 weeks; \$26,640  
Frantisek Wolf; 6 weeks; \$9,000  
Norris W. Rakestraw, La Jolla; 9 weeks; \$7,990  
Clifford Bell, Los Angeles; 6 weeks; \$9,740

UNIVERSITY OF FLORIDA, Gainesville; Luther A. Arnold; 8 weeks; \$12,290

UNIVERSITY OF GEORGIA, Athens; C. T. Clark; 6 weeks; \$10,650

UNIVERSITY OF HAWAII, Honolulu; Toshio Murashige; 7 weeks; \$18,960

UNIVERSITY OF HOUSTON, Houston, Tex.; John C. Allred; 6 weeks; \$17,570

UNIVERSITY OF ILLINOIS, Urbana; Jerry S. Dobrovolny; 6 weeks; \$13,090  
F. A. Kummerow; 8 weeks; \$3,890

UNIVERSITY OF MARYLAND, College Park; James C. Armstrong; 13 weeks; \$6,690

UNIVERSITY OF MIAMI, Coral Gables, Fla.; Herman Meyer; 6 weeks; \$8,900

UNIVERSITY OF MICHIGAN, Ann Arbor; Leigh C. Anderson; 6 weeks; \$20,380

UNIVERSITY OF MISSISSIPPI, University; Samuel F. Clark; 6 weeks; \$13,970  
Paul G. Hahn; 6 weeks; \$8,630

UNIVERSITY OF MISSOURI, Columbia; Charles R. Remington, Jr., Rolla; 7 weeks; \$12,250

UNIVERSITY OF NEVADA, Reno; Wendell A. Mordy; 7 weeks; \$23,525

UNIVERSITY OF NORTH CAROLINA, Chapel Hill; Samuel B. Knight; 6 weeks; \$22,410  
Hollis J. Rogers, Greensboro; 5 weeks; \$10,470

UNIVERSITY OF NORTH DAKOTA, Grand Forks; Paul B. Kannotski; 8 weeks; \$14,270

UNIVERSITY OF NOTRE DAME, Notre Dame, Ind.; Arnold E. Ross; 7 weeks; \$24,370

UNIVERSITY OF OKLAHOMA, Norman; H. E. Hoffman; 8 weeks; \$25,500

UNIVERSITY OF PUERTO RICO, Rio Piedras; Francisco Garriga; 6 weeks; \$9,300  
Eddie Ortiz; 6 weeks; \$11,720

UNIVERSITY OF RHODE ISLAND, Kingston; James W. Cobble; 6 weeks; \$4,990

UNIVERSITY OF SOUTHWESTERN LOUISIANA, Lafayette; James R. Oliver; 9 weeks; \$12,940

UNIVERSITY OF TENNESSEE, Knoxville; J. H. Wood; 6 weeks; \$10,310

UNIVERSITY OF TEXAS, Austin; H. J. Ettlinger; 6 weeks; \$5,970

William C. Gardner, Jr.; 6 weeks; \$8,980  
Irwin Spear; 7 weeks; \$11,240

Murray M. Copeland, Houston; 8 weeks; \$3,390

UNIVERSITY OF WISCONSIN, Madison; George W. Sledge; 6 weeks; \$16,320

VARIETY CHILDREN'S RESEARCH FOUNDATION, Miami, Fla.; M. Michael Sigel; 12 weeks; \$2,610

VASSAR COLLEGE, Poughkeepsie, N.Y.; Joseph F. Mucci; 5 weeks; \$5,800

VETERANS ADMINISTRATION HOSPITAL, Albuquerque, N. Mex.; L. Louise Leonard; 8 weeks; \$500

VIRGINIA UNION UNIVERSITY, Richmond; Walter O. Bradley; 6 weeks; \$12,350

WESLEYAN UNIVERSITY, Middletown, Conn.; Ernest Stabler; 6 weeks; \$20,000

Lamar Washington, Massachusetts Institute of Technology, Boston; 8 weeks; \$45,340

WEST VIRGINIA UNIVERSITY, Morgantown; O. J. Burger; 5 weeks; \$4,550

WESTERN ILLINOIS UNIVERSITY, Macomb; Eugene Pergament; 8 weeks; \$4,380

WESTERN KENTUCKY STATE COLLEGE, Bowling Green; Tate C. Page; 8 weeks; \$22,720

WESTERN MICHIGAN UNIVERSITY, Kalamazoo; George C. Mallinson; 6 weeks; \$13,520

WESTERN STATE COLLEGE OF COLORADO, Gunnison; Aubrey W. Lawrence; 6 weeks; \$8,550

WHITWORTH COLLEGE, Spokane, Wash.; Hugh W. Johnston; 8 weeks; \$9,990

WILEY COLLEGE, Marshall, Tex.; Rufus L. McGee; 6 weeks; \$5,950

WORCESTER FOUNDATION FOR EXPERIMENTAL BIOLOGY, Shrewsbury, Mass.; Frederick R. Avis; 9 weeks; \$20,020

YESHIVA UNIVERSITY, New York, N.Y.; Moses D. Tendler; 9 weeks; \$12,950

William Zlot; 8 weeks; \$6,480

#### SUPPLEMENTARY STUDENT SCIENCE PROJECTS

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, Washington, D.C.; Dael Wolfe; *Holiday Lectures for Selected High School Students*; 2 years; \$127,360

COUNCIL OF CHIEF STATE SCHOOL OFFICERS, Washington, D.C.; Edgar Fuller; *Revision of the Purchase Guide*; 2 years; \$45,090

DARTMOUTH COLLEGE, Hanover, N.H.; William P. Davis, Jr.; *Summer Science Program for Talented High School Students and Selected Secondary School Teachers*; 6 weeks; \$36,080

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL, Washington, D.C.;

J. B. Rosser; *Printing and Distribution of Copies of a Pamphlet Entitled "Careers in Mathematics"*; \$4,000

Richard C. Vetter; *Booklet on Oceanography entitled "Turn to the Sea"*; 14 months; \$5,770

NATIONAL SCIENCE TEACHERS ASSOCIATION, Washington, D.C.; Robert H. Carleton; *Supplementary Student Science Project*; 2 weeks; \$9,195

SCIENCE SERVICE, INC., Washington, D.C.; Karl Frank; *Supplementary Student Science Project*; 16 months; \$45,090

#### SUPPLEMENTARY TEACHING AIDS

ADELPHI COLLEGE, Garden City, N.Y.; Richard M. Klein; *Fish Experiments for Undergraduate Instruction in Learning and Motivation*; 1 year; \$5,420

AMERICAN PSYCHOLOGICAL ASSOCIATION, Washington, D.C.; John G. Darley and Robert B. Hudson; *Film Series in Psychology*; 1 year; \$187,770

BOSTON COLLEGE, Chestnut Hill, Mass.; Stanley J. Bezuska; *Development of Formal Deductive and Symbolic Logic Training and Teaching Equipment*; 1 year; \$10,120

CARLETON COLLEGE, Northfield, Minn.; William A. Butler, Robert J. Kolenkow and Robert A. Reitz; *Demonstration of Properties of Light With an Optical Maser*; 1 year; \$3,535

CARNEGIE INSTITUTE OF TECHNOLOGY, Pittsburgh, Pa.; Walton Forstall; *Development of Take-Home Kits for Experimentation in Engineering*; 1 year; \$15,525

Milton C. Shaw; *Development of Analog Experiments and Apparatus for Studying the Plastic Flow Characteristics of Materials*; 1 year; \$13,800

CATHOLIC UNIVERSITY, Washington, D.C.; A. J. Durell; *Development of Laboratory Equipment for Experimental Stress Analysis Demonstrations*; 2 years; \$20,870

COLORADO STATE UNIVERSITY, Fort Collins; John J. Faris; *Development of a Microwave Spectroscopy Experiment for Undergraduates*; 9 months; \$1,480

COLUMBIA UNIVERSITY, New York, N.Y.; H. Dean Baker; *Development of Energy Conversion Devices*; 1 year; \$39,070

Allan M. Sachs; *Development of a Spark Chamber*; 1 year; \$7,990

EDUCATIONAL SERVICES, INC., Watertown, Mass.; Ascher H. Shapiro, Massachusetts Institute of Technology; *Motion Pictures to Improve Instruction in Fluid Dynamics*; 1 year; \$324,000

Jerrold R. Zacharias, Massachusetts Institute of Technology; *Testing and Evaluation of the Extended PSSO Films for Television and Classroom Use*; 6 months; \$13,058

Jerrold R. Zacharias; *Production of Additional Films for the PSSO Course*; 6 months; \$112,850

Jerrold R. Zacharias and James S. Strickland; *The Production of Films of Demonstration and Laboratory Experiments for College and University Physics Courses*; 1 year; \$238,900

Jerrold R. Zacharias, Massachusetts Institute of Technology; *Production of PSSO Films*; 1 year; \$149,845

- FLORIDA STATE UNIVERSITY, Tallahassee; Guenter Schwarz; *Experiments and Demonstrations for the Three Semester General Physics Course*; 2 years; \$27,600
- GEORGIA INSTITUTE OF TECHNOLOGY, Atlanta; M. R. Carstens; *Development of Equipment for the Study of Unsteady Flow in a Pipe*; 1 year; \$7,520
- HARVARD UNIVERSITY, Cambridge, Mass.; Louis F. Fieser; *Development of Low-Cost Skeletal Models of Molecules*; 1 year; \$17,250
- Eugene G. Rochow; *Development of Equipment for Demonstrating Magnetic Susceptibility and Absorption/Emission Spectra*; 1 year; \$11,860
- HUNTER COLLEGE, New York, N.Y.; Dorothy N. Naiman; *Development of a Model of the Human Brain for Individual Student Production and Use*; 1 year; \$2,350
- INDIANA UNIVERSITY FOUNDATION, Bloomington; Clarence M. Flaten; *Production of Developmental Anatomy Films*; 1 year; \$31,500
- IOWA STATE UNIVERSITY, Ames; Paul F. Romberg; *Preparation of Educational Motion Pictures in the Plant Sciences*; 15 months; \$89,500
- JOHNS HOPKINS UNIVERSITY, Baltimore, Md.; Donald W. Benson; *Development of a Manikin for Teaching Endotracheal Intubation*; 1 year; \$4,490
- H. E. Hoelscher; *"Invisible" Fixed and Fluidized Beds for Laboratory Demonstration and Study*; 1 year; \$11,860
- KENYON COLLEGE, Gambler, Ohio; Franklin Miller, Jr.; *The Production of a Series of Short Teaching-Aid Film in Physics*; 6 months; \$44,640
- MANHATTAN COLLEGE, New York, N.Y.; C. Albert Welsh; *Development of Apparatus for Automatic Plotting of Phase, Gain, and Root Locus from Pole-Zero Constellations*; 2 years; \$9,530
- NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL, Washington, D.C.; Richard C. Vetter; *Filmstrips in Oceanography*; 18 months; \$44,120
- NEW MEXICO HIGHLANDS UNIVERSITY, Las Vegas; Galen W. Ewing; *Equipment Development for College and University Courses in Instrumental Methods in Chemical Analysis, Physical Chemistry, and Related Fields*; 2 years; \$13,110
- PRINCETON UNIVERSITY, Princeton, N.J.; Hubert N. Alvea; *Development of Tested Overhead Projection Series of Experiments*; 1 year; \$29,850
- REED COLLEGE, Portland, Oreg.; Frederick D. Tabbutt; *Development of Equipment and Experiments for Teaching Instrumental Analysis*; 8 months; \$5,935
- RENSSELAER POLYTECHNIC INSTITUTE, Troy, N.Y.; E. John Winhold; *Versatile Nuclear Coincidence Apparatus for Undergraduate Use*; 1 year; \$12,150
- RESEARCH FOUNDATION OF STATE UNIVERSITY OF NEW YORK, Albany; William M. Harlow, Syracuse; *A Motion Picture on the Mechanism of Moisture Movement in Wood*; 9 months; \$2,300
- UNION COLLEGE & UNIVERSITY, Schenectady, N.Y.; J. Modrey; *Development of Micro-Pneumatic Breadboard*; 3 months \$5,635
- UNIVERSITY OF ARKANSAS, Fayetteville; Denys O. Akhurst; *Development of Lecture Demonstration Equipment for Courses in the Theory of Electromagnetic Fields and Waves*; 2 years; \$16,060
- UNIVERSITY OF CALIFORNIA, Berkeley; John E. Dorn, Earl R. Parker and Jack Washburn; *Development of Lecture Demonstration Equipment for Materials Science Course for Engineers*; 1 year; \$14,030
- Robert F. Helzer; *Preparation of a Sound-Color Film on the Olmec Site in Mexico*; 1 year; \$23,110
- E. F. King and R. C. Mackey; *Development of Solid-State Pulse-Code Modulation System for Laboratory Study and Demonstration*; 2 years; \$21,505
- Robert Macey and Lester Packer; *Development of Equipment for Monitoring Physiological Parameters in the Student Laboratory*; 2 years; \$31,330
- Frank A. Pitelka; *The Production of a Sound-Color Film on Predator-Prey Relationships*; 6 months; \$6,600
- Norman N. Goldstein, Jr., Sir Francis Drake High School, San Anselmo; *Development of Instruments for the Study of Physiological Phenomena in Advanced Secondary Biology*; 1 year; \$25,145
- UNIVERSITY OF COLORADO, Boulder; Malcolm Correll and Albert A. Bartlett; *Development of Student Apparatus for Measuring Relativistic Change of Mass and Momentum Spectra of Electrons from Beta Ray Sources*; 1 year; \$14,180
- UNIVERSITY OF DELAWARE, Newark; Carl N. Shuster, Jr.; *Development and Adaptation of Plastic-Embedding Techniques to Aid Students in the Three-Dimensional Visualization of Animal Anatomy*; 18 months; \$8,900
- UNIVERSITY OF ILLINOIS, Urbana; William L. Everitt; *A Conference on Motion Pictures for Instruction in Electrical Engineering*; 1 year; \$23,750
- UNIVERSITY OF KANSAS, Lawrence; Kenneth E. Rose; *Development of Demonstrations by Microscopy as Teaching Aids in the Science of Solids*; 2 years; \$15,110
- UNIVERSITY OF MIAMI, Coral Gables, Fla.; Thorne Shipley, Bascom Palmer Eye Institute, Miami; *Development of Student Laboratory Equipment in Visual Sciences*; 3 years; \$19,870
- UNIVERSITY OF MICHIGAN, Ann Arbor; Joseph E. Shigley; *Development of Laboratory Equipment for Teaching Dynamic Analysis*; 1 year; \$4,590
- UNIVERSITY OF MINNESOTA, Minneapolis; Donald E. Olson; *Development of the Use of Semiconductor Particle Detectors in Magnetic Deflection Beta Particle Spectrometers*; 1 year; \$1,460
- UNIVERSITY OF MISSOURI, Columbia; John F. Lamb and James R. Tudor; *Development of Experimental Equipments for Showing Forces Exerted on Current Carrying Conductors in Magnetic Fields Near Iron Surfaces*; 15 months; \$29,980
- UNIVERSITY OF NEW MEXICO, Albuquerque; Richard K. Moore; *Development of Kit-Style Digital Computers for Construction and Use by the Students at the High School Level*; 1 year; \$17,650
- UNIVERSITY OF ROCHESTER, Rochester, N.Y.; Robert E. Hopkins and M. Parker Givens;

*Interference Studies With the Optical Maser*; 1 year; \$8,870

H. B. Voelcker, Jr.; *Development of Apparatus and Experiments for a Modern Communications Laboratory*; 2 years; \$50,200

UNIVERSITY OF TEXAS, Austin; W. C. Gardner, Jr.; *Development of a Nuclear Magnetic Resonance Spectrometer for Instructional Purposes*; 2 years; \$4,025

UNIVERSITY OF UTAH, Salt Lake City; Edward M. Eyring; *Development of a Pressure-Jump Apparatus to Illustrate Relaxation Methods of Measuring Rates of Rapid Reactions in Solution*; 1 year; \$4,730

VANDERBILT UNIVERSITY, Nashville, Tenn.; Karl B. Schnelle, Jr.; *Development of Equipment to Illustrate Mass Transfer and Reactor Dynamics and the Dynamic Testing of Chemical Process Systems*; 15 months; \$11,790

WALDEMAR MEDICAL RESEARCH FOUNDATION, Inc., Port Washington, N.Y.; Norman Molomut; *Design and Development of Individual Kits for Student Use in High School Biology and Chemistry Laboratory*; 2 years; \$10,410

WASHINGTON STATE UNIVERSITY, Pullman; Charles F. Morrison, Jr.; *Development of a General Utility Analytical Chemical Instrument*; 1 year; \$8,090

WESTERN RESERVE UNIVERSITY, Cleveland, Ohio; Ralph H. Petrucci; *Development of Three Dimensional Models in Phase Rule Studies*; 2 years; \$10,030

YESHIVA UNIVERSITY, New York, N.Y.; Roman Vishniac; *Living Biology, Film Series*; 21 months; \$143,050

#### SUPPLEMENTARY TRAINING FOR TEACHERS

AMERICAN SOCIETY FOR ENGINEERING EDUCATION, Newark, N.J.; Lloyd Berg, Montana State College; *Supplementary Training for Science Teachers Program Entitled "Summer School for Chemical Engineering Teachers"*; 6 days; \$22,040

BELLOIT COLLEGE, Beloit, Wis.; Edward C. Fuller; *Teaching a Course Combining Introductory Chemistry and Physics*; 3 months; \$10,380

CORNELL UNIVERSITY, Ithaca, N.Y.; Lyman G. Parratt; *Project Conference in Relativity in College Physics*; 3 weeks; \$52,770

DUKE UNIVERSITY, Durham, N.C.; J. J. Ger-gen; *Experimental Program in the Retraining of Armed Service Officers for Teaching Mathematics*; \$11,300

FISK UNIVERSITY, Nashville, Tenn.; Nelson Fuson; *Thirteenth Annual Fisk University Infrared Spectroscopy Institute*; 11 days; \$9,170

MATHEMATICAL ASSOCIATION OF AMERICA, Buffalo, N.Y.; Cletus O. Oakley, Haverford College; *Program of Visiting Lectures to Secondary Schools*; 2 years; \$100,000

MICHIGAN STATE UNIVERSITY, East Lansing; Wayne Taylor; *Supplementary Training for Science Teachers Program*; 4 weeks; \$21,200

NEW YORK STATE SOCIETY FOR MEDICAL RESEARCH, New York, N.Y.; Harold A. Levey, State University of New York; *Supplementary Training for Science Teachers Program Entitled "Modern Aspects of Biology*

*Laboratory Experiments in Physiology"*; 6 weeks; \$17,875

NORTHWESTERN UNIVERSITY, Evanston, Ill.; Ronald R. Novalis; *A Study of Lens Regeneration in the Eye of Salamanders*; 2 years; \$2,860

RENSSELAER POLYTECHNIC INSTITUTE, Troy, N.Y.; Stephen E. Wiberley; *Summer Institute in Instrumental Methods of Analysis*; 8 weeks; \$22,170

STANFORD UNIVERSITY, Stanford, Calif.; Lawrence Blinks, Pacific Grove; *Supplementary Training for Science Teachers Program*; 10 weeks; \$23,680

TAU BETA PI ASSOCIATION, Inc., Knoxville, Tenn.; Robert H. Nagel; *A Compilation of Financial Aid for Graduate Study in Engineering*; 1 year; \$2,000

UNIVERSITY OF COLORADO, Boulder; James R. Wailes; *Summer Institute for Science Supervisors*; 3 weeks; \$14,940

UNIVERSITY OF DAYTON, Dayton, Ohio; Carl I. Michaelis; *Supplementary Training for Science Teachers Program*; 11 months; \$3,020

UNIVERSITY OF MIAMI, Coral Gables, Fla.; Carl H. Oppenheimer, Miami; *Supplementary Training for Science Teachers Program in Marine Microbiology*; 6 weeks; \$15,910

UNIVERSITY OF NEBRASKA, Lincoln; Harold G. Beenken; *The Role of Bio-Medical Engineering in Universities and Hospitals*; 5 months; \$7,970

UNIVERSITY OF SOUTH FLORIDA, Tampa; T. C. Helvey; *Second Southeastern Conference on Aero-Space Sciences for High School Physics Teachers*; 13 days; \$16,270

UNIVERSITY OF TEXAS, Austin; Harold J. Plass, Jr.; *Development of Teachers of Engineering Mechanics*; 1 year; \$16,700

WELLESLEY COLLEGE, Wellesley, Mass.; Delaphine G. R. Wyckoff; *Intensive Study Session for High School Teachers of Biology*; 10 days; \$8,620

WESTERN ILLINOIS UNIVERSITY, Macomb; Eugene Pergament; *Summer Science Training Program for Secondary School Students*; \$400

#### SUPPLEMENTARY TRAINING FOR UNDERGRADUATES

ASSOCIATED COLLEGE OF THE MIDWEST, Chicago, Ill.; Blair Stewart; *Supplementary Training for Undergraduates*; 3½ years; \$46,830

#### TRAVELING SCIENCE LIBRARIES

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, Washington, D.C.; Hilary J. Deason; *Traveling Elementary School Science Library*; 18 months; \$86,900

OAK RIDGE INSTITUTE OF NUCLEAR STUDIES, Inc., Oak Ridge Tenn.; W. W. Grigorieff; *Special Institute for Future Science Teachers*; 1 year; \$10,800

#### UNDERGRADUATE RESEARCH PARTICIPATION

AMERICAN MUSEUM OF NATURAL HISTORY, New York, N.Y.; Evelyn Shaw; \$1,957

CARNEGIE INSTITUTE OF TECHNOLOGY, Pittsburgh, Pa.; Everard M. Williams; \$14,625



CLARK UNIVERSITY, Worcester, Mass.; Gerson Kegeles; \$6,785  
 LAFAYETTE COLLEGE, Easton, Pa.; William F. Hart; \$690  
 MICHIGAN STATE UNIVERSITY, East Lansing; Erwin J. Benne; \$9,050  
 OBERLIN COLLEGE, Oberlin, Ohio; Norman C. Craig; \$690  
 OHIO WESLEYAN UNIVERSITY, Delaware; Arthur C. Breyer; \$5,645  
 WESTERN RESERVE UNIVERSITY, Cleveland, Ohio; Gerald Tauber; \$4,760

**UNDERGRADUATE INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM**

AGRICULTURAL AND MECHANICAL COLLEGE OF TEXAS, College Station; David W. Rosberg; 2 years; \$19,140  
 ALABAMA AGRICULTURAL AND MECHANICAL COLLEGE, Normal; Mildred S. Robertson; 2 years; \$18,380  
 ALABAMA COLLEGE, Montevallo; Daniel R. McMillan; 2 years; \$24,550  
 ALAMEDA COUNTY STATE COLLEGE FOUNDATION, Hayward, Calif.; Thomas H. Southard; 2 years; \$25,000  
 ALBERTUS MAGNUS COLLEGE, New Haven, Conn.; Dorothea Rudnick; 2 years; \$4,500  
 ALBION COLLEGE, Albion, Mich.; William J. Gilbert; 2 years; \$5,440  
 ALVERNO COLLEGE, Milwaukee, Wis.; M. Bernarda Handrup; 2 years; \$1,000  
 AMERICAN UNIVERSITY, Washington, D.C.; A. B. Chaet; 2 years; \$21,940  
 AMHERST COLLEGE, Amherst, Mass.; Bruce B. Benson; 2 years; \$14,130  
 ANTIOCH COLLEGE, Yellow Springs, Ohio; C. Vernon Cannon; 2 years; \$12,800  
 ARIZONA STATE UNIVERSITY, Tempe; George C. Beakley; 2 years; \$12,600  
 Alan T. Wager; 2 years; \$24,990  
 AUGSBURG COLLEGE AND THEOLOGICAL SEMINARY, Minneapolis, Minn.; Courtland L. Agre; 2 years; \$5,840  
 AUGUSTANA COLLEGE, Rock Island, Ill.; E. R. Erickson; 2 years; \$9,570  
 AUGUSTANA COLLEGE, Sioux Falls, S.D.; Robert Roy Kintner; 2 years; \$3,000  
 BARD COLLEGE, Annandale-on-Hudson, N.Y.; Henry Kritzler; 2 years; \$3,780  
 BARNARD COLLEGE, COLUMBIA UNIVERSITY, New York, N.Y.; Edward J. King; 2 years; \$7,560  
 BELLARMINE COLLEGE, Louisville, Ky.; Richard W. Sames; 2 years; \$12,800  
 BETHANY COLLEGE, Bethany, W. Va.; John Daniel Draper; 2 years; \$9,950  
 BIRMINGHAM-SOUTHERN COLLEGE, Birmingham, Ala.; Thomas J. Carrington; 2 years; \$3,250  
 BOSTON UNIVERSITY, Boston, Mass.; Lowell V. Coulter; 2 years; \$18,030  
 BOWDOIN COLLEGE, Brunswick, Maine; Noel C. Little; 2 years; \$5,000  
 BROOKLYN COLLEGE, Brooklyn, N.Y.; George Gibson; 2 years; \$2,770  
 Carroll W. Grant; 2 years; \$7,830  
 B. Kurrelmeyer; 2 years; \$1,470  
 Wilbur G. Valentine; 2 years; \$3,220

BROWN UNIVERSITY, Providence, R.I.; George L. Church; 2 years; \$11,730  
 M. V. Edds, Jr.; 2 years; \$24,590  
 BRYN MAWR COLLEGE, Bryn Mawr, Pa.; Ernst Berliner; 2 years; \$12,340  
 BUCKNELL UNIVERSITY, Lewisburg, Pa.; Roy C. Tasker; 2 years; \$24,740  
 BUTLER UNIVERSITY, Indianapolis, Ind.; Keith M. Seymour; 2 years; \$3,000  
 CALIFORNIA INSTITUTE OF TECHNOLOGY, Pasadena; Ward Whaling; 2 years; \$13,490  
 CARLETON COLLEGE, Northfield, Minn.; Kenneth O. May; 2 years; \$23,150  
 CARNEGIE INSTITUTE OF TECHNOLOGY, Pittsburgh, Pa.; Robert B. Carlin; 2 years; \$25,000  
 Emerson M. Pugh; 2 years; \$24,920  
 CASE INSTITUTE OF TECHNOLOGY, Cleveland, Ohio; R. H. Thomas; 2 years; \$24,950  
 R. H. Thomas; 2 years; \$24,930  
 CITY COLLEGE, New York, N.Y., Leonard P. Sayles; 2 years; \$24,890  
 Henry Semat; 2 years; \$16,550  
 Henry Semat; 2 years; \$24,680  
 CLARK UNIVERSITY, Worcester, Mass., Gerson Kegeles; 2 years; \$8,310  
 COKER COLLEGE, Hartsville, S.C.; Joseph B. Harris; 2 years; \$3,960  
 COLBY COLLEGE, Waterville, Maine; Evans B. Reid; 2 years; \$5,310  
 COLLEGE OF THE HOLY CROSS, Worcester, Mass.; John W. Flavin; 2 years; \$8,200  
 COLLEGE OF IDAHO, Caldwell, Lyle M. Stanford; 2 years; \$4,930  
 COLLEGE OF MOUNT ST. VINCENT, New York, N.Y.; Thomas F. Shea; 2 years; \$10,830  
 COLLEGE OF WILLIAM AND MARY, Williamsburg, Va.; Mitchell A. Byrd; 2 years; \$10,000  
 COLORADO COLLEGE, Colorado Springs; Wilbur H. Wright; 2 years; \$24,500  
 COLORADO SCHOOL OF MINES, Golden; L. W. LeRoy; 2 years; \$790  
 COLORADO STATE UNIVERSITY RESEARCH FOUNDATION, Fort Collins; Louis R. Weber; 2 years; \$18,000  
 COLUMBIA UNIVERSITY, New York, N.Y.; Charles O. Beckmann; 2 years; \$12,080  
 Guy S. Longobardo; 2 years; \$24,780  
 COOPER UNION, New York, N.Y.; William C. Shapiro; 2 years; \$21,430  
 CORNELL COLLEGE, Mount Vernon, Iowa; Earl Scott; 2 years; \$6,700  
 CORNELL UNIVERSITY, Ithaca, N.Y.; R. B. Reeves; 2 years; \$12,160  
 H. A. Scheraga; 2 years; \$24,950  
 A. M. Srb; 2 years; \$17,500  
 DARTMOUTH COLLEGE, Hanover, N.H.; Robert W. Decker; 2 years; \$10,230  
 William T. Doyle; 2 years; \$12,000  
 Miles V. Hayes; 2 years; \$10,000  
 DENISON UNIVERSITY, Granville, Ohio; Paul T. Mountjoy; 2 years; \$10,560  
 DEPAUL UNIVERSITY, Chicago, Ill., Edwin J. Schilling; 2 years; \$12,100  
 DEPAUW UNIVERSITY, Greencastle, Ind.; Clinton Gass; 2 years; \$19,480  
 John A. Ricketts; 2 years; \$6,200  
 DOANE COLLEGE, Crete, Nebr.; Robert C. Makosky; 2 years; \$4,880

**DREW UNIVERSITY**, Madison, N.J.; Donald A. Scott; 2 years; \$11,900  
**DREXEL INSTITUTE OF TECHNOLOGY**, Philadelphia, Pa.; Narindra Nath Puri; 2 years; \$25,000  
**DRURY COLLEGE**, Springfield, Mo.; Lora Bond; 2 years; \$5,570  
**DUKE UNIVERSITY**, Durham, N.C.; J. H. Saylor; 2 years; \$7,490  
     Walter J. Seelye; 2 years; \$3,820  
     Karl E. Zener; 2 years; \$12,260  
**DUQUESNE UNIVERSITY**, Pittsburgh, Pa.; Kurt C. Schreiber; 2 years; \$4,510  
**EARLHAM COLLEGE**, Richmond, Ind.; Carrolle A. Markle; 2 years; \$6,040  
**EAST CENTRAL STATE COLLEGE**, Ada, Okla.; Oscar L. Parker; 2 years; \$9,330  
**EASTERN ILLINOIS UNIVERSITY**, Charleston; Glenn Q. Lefler; 2 years; \$5,000  
**EASTERN MICHIGAN UNIVERSITY**, Ypsilanti; Albert W. Brown; 2 years; \$19,640  
**ELMIRA COLLEGE**, Elmira, N.Y.; Richard R. Bond; 2 years; \$24,380  
**EMORY UNIVERSITY**, Atlanta, Ga.; R. A. Day, Jr.; 2 years; \$25,000  
**FAIRFIELD UNIVERSITY**, Fairfield, Conn.; Robert E. Varnerin; 2 years; \$21,890  
**FLORIDA STATE UNIVERSITY**, Tallahassee; Leland Shanor; 2 years; \$24,790  
**FISK UNIVERSITY**, Nashville, Tenn.; Irvin W. Elliott; 2 years; \$9,480  
**GEORGE WASHINGTON UNIVERSITY**, Washington, D.C.; Russell B. Stevens; 2 years; \$5,170  
**GEORGETOWN UNIVERSITY**, Washington, D.C.; William T. Taylor; 2 years; \$25,000  
**GEORGIA INSTITUTE OF TECHNOLOGY**, Atlanta; J. P. Vidosic; 2 years; \$25,000  
**GOUCHER COLLEGE**, Baltimore, Md.; Dorothy L. Bernstein; 2 years; \$20,500  
**HAMLIN UNIVERSITY**, St. Paul, Minn.; Kent H. Bracewell; 2 years; \$2,500  
**HAMPDEN-SYDNEY COLLEGE**, Hampden-Sydney, Va.; G. Tyler Miller, Jr.; 2 years; \$9,970  
**HANOVER COLLEGE**, Hanover, Ind.; Richard L. Conklin; 2 years; \$2,210  
**HARVARD UNIVERSITY**, Cambridge, Mass.; R. W. Hickman; 2 years; \$20,050  
     Alan V. Jopling; 2 years; \$3,780  
     Ronald E. Vanelli; 2 years; \$17,850  
**HARVEY MUDD COLLEGE**, Claremont, Calif.; Warren E. Wilson; 2 years; \$25,000  
**HASTINGS COLLEGE**, Hastings, Nebr.; Clyde C. Sachtleben; 2 years; \$4,760  
**HAVERFORD COLLEGE**, Haverford, Pa.; Fay Aizenberg-Selove; 2 years; \$10,090  
**HOFSTRA COLLEGE**, Hempstead, N.Y.; Harold E. Clearman; 2 years; \$6,130  
**HOOD COLLEGE**, Frederick, Md.; Jane D. McCarrell; 2 years; \$5,000  
**HOWARD UNIVERSITY**, Washington, D.C.; Moddie D. Taylor; 2 years; \$24,790  
**HUNTER COLLEGE**, New York, N.Y.; Jewell Hughes Bushey; 2 years; \$20,350  
**ILLINOIS INSTITUTE OF TECHNOLOGY**, Chicago; Leslie R. Hedrick; 2 years; \$6,180  
**ILLINOIS STATE NORMAL UNIVERSITY**, Normal; R. E. Dilks; 2 years; \$10,000  
**INDIANA UNIVERSITY**, Bloomington, John B. Patton; 2 years; \$25,000  
**IOWA STATE UNIVERSITY**, Ames; Oscar E. Tauber; 2 years; \$10,440  
**JOHN CARROLL UNIVERSITY**, Cleveland, Ohio; Richard J. Gaul; 2 years; \$13,930  
**KANSAS STATE UNIVERSITY**, Manhattan; Ralph G. Nevins; 2 years; \$13,130  
**KANSAS WESLEYAN UNIVERSITY**, Salina; Charles B. Creager; 2 years; \$6,500  
**KING'S COLLEGE**, Wilkes-Barre, Pa.; Jay A. Young; 2 years; \$12,000  
**KNOX COLLEGE**, Galesburg, Ill.; Leland Harris; 2 years; \$25,000  
**LAKE FOREST COLLEGE**, Lake Forest, Ill.; Harald C. Jensen; 2 years; \$23,000  
**LAWRENCE COLLEGE**, Appleton, Wis.; Olga A. Smith; 2 years; \$10,720  
**LEBANON VALLEY COLLEGE**, Annville, Pa.; Howard A. Neldig; 2 years; \$7,200  
**LEHIGH UNIVERSITY**, Bethlehem, Pa.; George R. Jenkins; 2 years; \$24,420  
**LEMOYNE COLLEGE**, Memphis, Tenn.; W. W. Gibson; 2 years; \$9,330  
**LORAS COLLEGE**, Dubuque, Iowa; Donald R. Hutchinson; 2 years; \$4,210  
**LOS ANGELES STATE COLLEGE**, Los Angeles, Calif.; Harry C. Coffin; 2 years; \$6,020  
**LOUISIANA STATE UNIVERSITY**, Baton Rouge; Hulén B. Williams; 2 years; \$24,710  
     Donald G. Davis, New Orleans; 2 years; \$13,720  
**LOYOLA UNIVERSITY**, Chicago, Ill.; Walter Peters; 2 years; \$12,500  
**LUTHER COLLEGE**, Decorah, Iowa; David T. Nelson; 2 years; \$13,690  
**MACALESTER COLLEGE**, St. Paul, Minn.; C. H. Shifflet; 2 years; \$22,290  
**MANCHESTER COLLEGE**, North Manchester, Ind.; Harry R. Welmer; 2 years; \$2,550  
**MANHATTAN COLLEGE**, New York, N.Y.; C. Albert Welsh; 2 years; \$15,000  
**MARQUETTE UNIVERSITY**, Milwaukee, Wis.; Arthur C. Moeller; 2 years; \$25,000  
**MASSACHUSETTS INSTITUTE OF TECHNOLOGY**, Cambridge; Charles L. Miller; 2 years; \$24,700  
     H. G. Stever; 2 years; \$24,920  
**MERRIMACK COLLEGE**, North Andover, Mass.; Charles O. Ahonen; 2 years; \$11,410  
**MICHIGAN COLLEGE OF MINING & TECHNOLOGY**, Houghton; Marriott W. Bredekamp; 2 years; \$2,830  
**MICHIGAN STATE UNIVERSITY**, East Lansing; Herman E. Koenig; 2 years; \$24,080  
**MILLSAPS COLLEGE**, Jackson, Miss.; J. B. Price; 2 years; \$6,160  
**MISSISSIPPI SOUTHERN COLLEGE**, Hattiesburg; J. Fred Walker; 2 years; \$12,500  
**MISSISSIPPI STATE UNIVERSITY**, State College; E. Irl Howell; 2 years; \$24,770  
**MONMOUTH COLLEGE**, Monmouth, Ill.; Garrett W. Thlessen; 2 years; \$6,000  
**MONTANA STATE COLLEGE**, Bozeman; Irving E. Dayton; 2 years; \$25,000  
**MONTANA STATE UNIVERSITY**, Missoula; Arthur E. Livingston; 2 years; \$22,640  
     John M. Stewart; 2 years; \$2,990

MORRHOUSE COLLEGE, Atlanta, Ga.; James H. Birnie; 2 years; \$22,950

MORGAN STATE COLLEGE, Baltimore, Md.; George H. Spaulding; 2 years; \$10,370

MOUNT HOLYOKE COLLEGE, South Hadley, Mass.; Anna J. Harrison; 2 years; \$20,800

MUSKINGUM COLLEGE, New Concord, Ohio; Simon J. Vellenga; 2 years; \$8,650

NEBRASKA WESLEYAN UNIVERSITY, Lincoln; Walter R. French, Jr.; 2 years; \$25,000

NEW MEXICO HIGHLANDS UNIVERSITY, Las Vegas; R. A. Deering; 2 years; \$21,240

NEW MEXICO STATE UNIVERSITY, University Park; Marlowe G. Anderson; 2 years; \$25,000

NEW YORK UNIVERSITY, New York; Lawrence A. Bornstein; 2 years; \$25,000

NORTH DAKOTA STATE UNIVERSITY, Fargo; Earl A. Helgeson; 2 years; \$5,150

NORTH GEORGIA COLLEGE, Dahlonega; J. C. Simms; 2 years; \$2,500

NORTHEASTERN UNIVERSITY, Boston, Mass.; M. W. Essigmann; 2 years; \$25,000  
Reginald G. Lacount; 2 years; \$24,840

NORTHERN ILLINOIS UNIVERSITY, De Kalb; Michael J. Joncich; 2 years; \$10,000

NORTHWESTERN STATE COLLEGE, Natchitoches, La.; George H. Ware; 2 years; \$7,210

NORTHWESTERN UNIVERSITY, Evanston, Ill.; William A. Hunt; 2 years; \$13,930  
Allen S. Hussey; 2 years; \$25,000

OVERLIN COLLEGE, Oberlin, Ohio; Carl E. Howe; 2 years; \$16,290  
Ralph H. Turner; 2 years; \$12,380

OHIO STATE UNIVERSITY, Columbus; Alfred B. Garrett; 2 years; \$24,770  
Roy F. Reeves; 2 years; \$24,990

OHIO WESLEYAN UNIVERSITY, Delaware; Roy G. Bossert; 2 years; \$8,570  
Elwood B. Shirling; 2 years; \$9,620

OKLAHOMA BAPTIST UNIVERSITY, Shawnee; J. O. Purdue; 2 years; \$5,520

OKLAHOMA STATE UNIVERSITY, Stillwater; Paul A. McCollum; 2 years; \$24,940

OREGON STATE UNIVERSITY, Corvallis; Donald G. Humphrey; 2 years; \$9,940  
E. A. Yunker; 2 years; \$21,740

OTTAWA UNIVERSITY, Ottawa, Kans.; W. D. Bemcels; 2 years; \$2,030

OTTERBEIN COLLEGE, Westerville, Ohio; Paul Matthews; 2 years; \$4,000

PACIFIC LUTHERAN UNIVERSITY, Tacoma, Wash.; Charles D. Anderson; 2 years; \$13,070

PACIFIC UNION COLLEGE, Angwin, Calif.; A. V. Winn; 2 years; \$17,510

PENNSYLVANIA STATE UNIVERSITY, University Park; William M. Lepley; 2 years; \$6,100  
Richard G. Stoner; 2 years; \$25,000

POLYTECHNIC INSTITUTE OF BROOKLYN, Brooklyn, N.Y.; J.J. Dropkin; 2 years; \$21,870

POMONA COLLEGE, Claremont, Calif.; R. Nelson Smith; 2 years; \$25,000

PORTLAND STATE COLLEGE, Portland, Oreg.; Mark Gurevitch; 2 years; \$25,000

PRESBYTERIAN COLLEGE, Clinton, S.C.; K. N. Carter; 2 years; \$5,680

PRINCETON UNIVERSITY, Princeton, N.J.; Walter Kaufmann; 2 years; \$3,440

PURDUE UNIVERSITY, Lafayette, Ind.; Raymond Cohen; 2 years; \$25,000  
J. R. Eaton; 2 years; \$25,000  
J. C. Rogler; 2 years; \$24,970  
I. Walerstein; 2 years; \$22,800

RANDOLPH-MACON COLLEGE, Ashland, Va.; Bruce V. English; 2 years; \$7,440

RANDOLPH-MACON WOMAN'S COLLEGE, Lynchburg, Va.; A. Marquerite Risley; 2 years; \$2,470

REED COLLEGE, Portland, Oreg.; William L. Parker; 2 years; \$24,730

RENSSELAER POLYTECHNIC INSTITUTE, Troy, N.Y.; P. M. DeRusso; 2 years; \$5,990  
H. B. Huntington; 2 years; \$24,350  
Stephen E. Wiberley; 2 years; \$24,820

ROLLINS COLLEGE, Winter Park, Fla.; Herbert E. Hellwege; 2 years; \$23,160

ROSE POLYTECHNIC INSTITUTE, Terre Haute, Ind.; Charles C. Rogers; 2 years; \$22,830

ROSEMONT COLLEGE, Rosemont, Pa.; Mary Colman Wall; 2 years; \$5,450

RUTGERS, THE STATE UNIVERSITY, New Brunswick, N.J.; Donald J. Lewis; 2 years; \$24,650  
Leslie A. Stauber; 2 years; \$4,880  
Phillip A. Vaughan; 2 years; \$15,000

ST. JOSEPH'S COLLEGE, Philadelphia, Pa.; John S. O'Connor; 2 years; \$25,000

ST. LAWRENCE UNIVERSITY, Canton, N.Y.; Edward N. Warner; 2 years; \$21,500

ST. LOUIS UNIVERSITY, St. Louis, Mo.; Lyman J. Wood; 2 years; \$25,000

ST. MARY'S COLLEGE, Winona, Minn.; Donald R. Morgan; 2 years; \$6,830

ST. MARY'S UNIVERSITY OF SAN ANTONIO, San Antonio, Tex.; William J. Hamm; 2 years; \$3,490

ST. NORBERT COLLEGE, West De Pere, Wis.; Lawrence L. Motif; 2 years; \$3,350

ST. OLAF COLLEGE, Northfield, Minn.; Peter E. Fossum; 2 years; \$9,000

SHIMER COLLEGE, Mount Carroll, Ill.; J. Bennet Olson; 2 years; \$20,630

SIMPSON COLLEGE, Indianola, Iowa; Jack L. Carter; 2 years; \$9,210

SKIDMORE COLLEGE, Saratoga Springs, N.Y.; Edwin M. Moseley; 2 years; \$22,820

SOUTHERN METHODIST UNIVERSITY, Dallas, Tex.; Howard J. Henry; 2 years; \$24,590  
John A. Savage; 2 years; \$24,970

SOUTHWESTERN AT MEMPHIS, Memphis, Tenn.; M. Foster Moose; 2 years; \$12,000

STANFORD UNIVERSITY, Stanford, Calif.; L. I. Schiff; 2 years; \$19,000  
D. A. Skoog; 2 years; \$19,860  
John K. Vennard; 2 years; \$6,350

STATE UNIVERSITY OF IOWA, Iowa City; Ralph L. Shriner; 2 years; \$16,180

STATE UNIVERSITY OF SOUTH DAKOTA, Vermillion; Charles M. Vaughn; 2 years; \$15,220

STEPHEN F. AUSTIN STATE COLLEGE, Nacogdoches, Tex.; J. Herndon Butt, Jr.; 2 years; \$15,000

STEVENS INSTITUTE OF TECHNOLOGY, Hoboken, N.J.; James H. Potter; 2 years; \$25,000

**STILLMAN COLLEGE**, Tuscaloosa, Ala.; Wil-  
 ham H. Venable, Jr.; 2 years; \$4,000  
**SWARTHMORE COLLEGE**, Swarthmore, Pa.;  
 Gilbert P. Haight, Jr.; 2 years; \$9,550.  
**SYRACUSE UNIVERSITY**, Syracuse, N.Y.;  
 Marshall W. Jennison; 2 years; \$21,410  
 Frederick G. Sherman; 2 years; \$24,230  
 Bernard D. Wood; 2 years; \$21,690  
**TAYLOR UNIVERSITY**, Upland, Ind.; Elmer  
 Nussbaum; 2 years; \$6,970  
**TRIEL COLLEGE**, Greenville, Pa.; Walter H.  
 Puterbaugh; 2 years; \$1,900  
**TUFTS UNIVERSITY**, Medford, Mass.; Ashley  
 S. Campbell; 2 years; \$13,360  
 M. Kent Wilson; 2 years; \$7,320  
**TULANE UNIVERSITY**, New Orleans, La.;  
 Hans B. Jonassen; 2 years; \$22,560  
**TUSCULUM COLLEGE**, Greenville, Tenn.;  
 Arnold Van Pelt; 2 years; \$4,550  
**TUSKEGEE INSTITUTE**, Tuskegee, Ala.; Z. W.  
 Dybezak; 2 years; \$25,000  
**UNION COLLEGE AND UNIVERSITY**, Schene-  
 cady, N.Y.; Harold E. Way; 2 years; \$15,000  
**UNIVERSITY OF ALABAMA**, University; Wil-  
 lard F. Gray; 2 years; \$25,000  
**UNIVERSITY OF ARIZONA**, Tucson; John W.  
 Harshbarger; 2 years; \$24,400  
**UNIVERSITY OF ARKANSAS**, Fayetteville;  
 Thomas B. Jefferson; 2 years; \$2,050  
 Samuel Siegel; 2 years; \$5,800  
**UNIVERSITY OF CALIFORNIA**, Berkeley; S. F.  
 Cook; 2 years; \$9,000  
 Morgan Harris; 2 years; \$13,230  
 E. R. Hardwick, Los Angeles; 2 years;  
 \$8,540  
 Austin H. Riesen, Riverside; 2 years;  
 \$12,700  
 J. W. Cotton, Santa Barbara; 2 years;  
 \$4,790  
**UNIVERSITY OF CINCINNATI**, Cincinnati,  
 Ohio; William A. Spoor; 2 years; \$25,000  
**UNIVERSITY OF COLORADO**, Boulder; Malcolm  
 Correll; 2 years; \$20,910  
 Frank Kreith; 2 years; \$25,000  
**UNIVERSITY OF CONNECTICUT**, Storrs; H. G.  
 Hewitt; 2 years; \$24,580  
**UNIVERSITY OF DAYTON**, Dayton, Ohio;  
 Leonard Mann; 2 years; \$5,000  
**UNIVERSITY OF DELAWARE**, Newark; James  
 P. Hartnett; 2 years; \$25,000  
 G. Fred Somers; 2 years; \$24,710  
**UNIVERSITY OF GEORGIA**, Athens; Vernon J.  
 Hurst; 2 years; \$12,390  
**UNIVERSITY OF HAWAII**, Honolulu; James C.  
 Gilbert; 2 years; \$20,790  
 Paul J. Scheuer; 2 years; \$25,000  
**UNIVERSITY OF HOUSTON**, Houston, Tex.;  
 Sara E. Huggins; 2 years; \$11,270  
 W. E. Wentworth; 2 years; \$8,270  
**UNIVERSITY OF ILLINOIS**, Urbana; G. M.  
 Almy; 2 years; \$25,000  
 H. A. Laitinen; 2 years; \$25,000  
**UNIVERSITY OF KANSAS**, Lawrence; David  
 Paretsky; 2 years; \$11,360  
 Frederick E. Samson, Jr.; 2 years;  
 \$22,650  
**UNIVERSITY OF KENTUCKY**, Lexington; Lyle  
 R. Dawson; 2 years; \$24,090  
**UNIVERSITY OF MAINE**, Orono; John W.  
 Beamesderfer; 2 years; \$24,830  
 Clarence E. Bennett; 2 years; \$13,880  
 B. R. Spelcher; 2 years; \$9,530  
**UNIVERSITY OF MARYLAND**, College Park; U.  
 Van Wijk; 2 years; \$6,250  
**UNIVERSITY OF MASSACHUSETTS**, Amherst;  
 Lawrence M. Bartlett; 2 years; \$25,000  
**UNIVERSITY OF MICHIGAN**, Ann Arbor; Leigh  
 C. Anderson; 2 years; \$8,980  
 K. L. Jones; 2 years; \$5,240  
 Thomas D. Rowe; 2 years; \$25,000  
 G. J. Van Wylen; 2 years; \$23,310  
 Edward L. Walker; 2 years; \$17,910  
**UNIVERSITY OF MINNESOTA**, Minneapolis;  
 Stanley Bruckenstein; 2 years; \$17,170  
 Alfred O. C. Nier; 2 years; \$23,570  
 Robert E. Sloan; 2 years; \$24,460  
 Armas W. Tamminen, Duluth; 2 years;  
 \$4,400  
**UNIVERSITY OF MISSOURI**, Columbia; Clinton  
 H. Conaway; 2 years; \$12,240  
 Louis V. Holroyd; 2 years; \$20,580  
 Harold K. Fuller, Rolla; 2 years; \$25,000  
**UNIVERSITY OF NEBRASKA**, Lincoln; Russell  
 C. Nelson; 2 years; \$13,580  
**UNIVERSITY OF NEVADA**, Reno; Paul F.  
 Secord; 2 years; \$10,660  
**UNIVERSITY OF NEW HAMPSHIRE**, Durham;  
 R. E. Houston, Jr.; 2 years; \$13,840  
**UNIVERSITY OF NEW MEXICO**, Albuquerque;  
 Ruben D. Kelly; 2 years; \$24,070  
**UNIVERSITY OF NORTH CAROLINA**, Chapel  
 Hill; H. D. Crockford; 2 years; \$23,990  
 Edmund Berkeley, Greensboro; 2 years;  
 \$7,600  
 Raymond L. Murray, Raleigh; 2 years;  
 \$25,000  
**UNIVERSITY OF NORTH DAKOTA**, Grand  
 Forks; George C. Wheeler; 2 years; \$10,000  
**UNIVERSITY OF NOTRE DAME**, Notre Dame,  
 Ind.; Clyde H. Hoffman; 2 years; \$10,560  
 Frederick D. Rossini; 2 years; \$6,650  
**UNIVERSITY OF OKLAHOMA**, Norman; How-  
 ard W. Larsh; 2 years; \$25,000  
 C. A. Plint; 2 years; \$8,120  
**UNIVERSITY OF OREGON**, Eugene; F. J.  
 Reithel; 2 years; \$12,940  
**UNIVERSITY OF PENNSYLVANIA**, Philadelphia;  
 Charles C. Price; 2 years; \$12,650  
**UNIVERSITY OF PITTSBURGH**, Pittsburgh, Pa.;  
 T. H. Dunkelberger; 2 years; \$25,000  
**UNIVERSITY OF PUERTO RICO**, Rio Piedras;  
 Gustavo Candelas; 2 years; \$24,610  
**UNIVERSITY OF PUERTO RICO**, Mayaguez; J.  
 Maldonado Capriles; 2 years; \$2,830  
**UNIVERSITY OF REDLANDS**, Redlands, Calif.;  
 Charles D. Howell; 2 years; \$21,720  
**UNIVERSITY OF ROCHESTER**, Rochester, N.Y.;  
 M. F. Kaplan; 2 years; \$24,340  
 Winston D. Walters; 2 years; \$10,560  
**UNIVERSITY OF ST. THOMAS**, Houston, Tex.;  
 George H. Dubay; 2 years; \$10,000  
**UNIVERSITY OF SANTA CLARA**, Santa Clara,  
 Calif.; John B. Drabmann; 2 years; \$4,960  
**UNIVERSITY OF SCRANTON**, Scranton, Pa.;  
 Joseph P. Harper; 2 years; \$21,580  
**UNIVERSITY OF SOUTH CAROLINA**, Columbia;  
 B. L. Baker; 2 years; \$15,860  
**UNIVERSITY OF SOUTHERN CALIFORNIA**, Los  
 Angeles; Thomas Clements; 2 years;  
 \$20,440  
 John R. Holmes; 2 years; \$24,940

UNIVERSITY OF TENNESSEE, Knoxville; A. D. Melaven; 2 years; \$24,850

UNIVERSITY OF TEXAS, Austin; William W. Hagerty; 2 years; \$21,860

UNIVERSITY OF TOLEDO, Toledo, Ohio; Robert A. Chipman; 2 years; \$25,000

UNIVERSITY OF UTAH, Salt Lake City; Grant R. Fowles; 2 years; \$14,920

    L. Dale Harris; 2 years; \$17,220

    Don M. Rees; 2 years; \$23,840

UNIVERSITY OF VERMONT, Burlington; Clinton D. Cook; 2 years; \$24,240

    Paul A. Moody; 2 years; \$24,590

UNIVERSITY OF VIRGINIA, Charlottesville; Dietrich Bodenstern; 2 years; \$24,990

    John P. Raney; 2 years; \$11,500

UNIVERSITY OF WASHINGTON, Seattle; Frank J. Seller; 2 years; \$24,220

UNIVERSITY OF WICHITA, Wichita, Kans.; Alvin Sarachek; 2 years; \$4,100

UNIVERSITY OF WISCONSIN, Madison; R. J. Altpeter; 2 years; \$25,000

    Donald H. Bucklin; 2 years; \$24,830

    William C. Frazier; 2 years; \$23,840

UNIVERSITY OF WYOMING, Laramie; L. Floyd Clarke; 2 years; \$24,730

VANDEBILT UNIVERSITY, Nashville, Tenn.; Robert T. Lagemann; 2 years; \$7,020

VASSAR COLLEGE, Poughkeepsie, N.Y.; R. E. Alley, Jr.; 2 years; \$8,250

VILLA MADONNA COLLEGE, Covington, Ky.; Wallace F. Humphreys; 2 years; \$4,360

VIRGINIA POLYTECHNIC INSTITUTE, Blacksburg; Fred W. Bull; 2 years; \$19,880

    James A. Jacobs; 2 years; \$8,000

    Robert C. Krug; 2 years; \$7,450

VIRGINIA STATE COLLEGE, Petersburg; John T. Blue, Jr., Norfolk; 2 years; \$4,900

WAKE FOREST COLLEGE, Winston-Salem, N.C.; John W. Sawyer; 2 years; \$25,000

WASHINGTON STATE UNIVERSITY, Pullman; B. Roger Ray; 2 years; \$13,840

WASHINGTON UNIVERSITY, St. Louis, Mo.; Richard A. Dammkoehler; 2 years; \$22,430

    Viktor Hamburger; 2 years; \$5,540

WAYNE STATE UNIVERSITY, Detroit, Mich.; William V. Mayer; 2 years; \$20,850

WELLS COLLEGE, Aurora, N.Y.; Robert L. Gering; 2 years; \$12,500

WESLEYAN UNIVERSITY, Middletown, Conn.; Vincent W. Cochrane; 2 years; \$19,940

WEST VIRGINIA UNIVERSITY, Morgantown; C. D. Thomas; 2 years; \$4,130

WEST VIRGINIA WESLEYAN COLLEGE, Buckhannon; John C. Wright; 2 years; \$10,160

WESTERN MICHIGAN UNIVERSITY, Kalamazoo; Walter G. Marburger; 2 years; \$12,490

WESTERN RESERVE UNIVERSITY, Cleveland, Ohio; Howard A. Schneiderman; 2 years; \$24,470

WHEELING COLLEGE, Wheeling, W. Va.; Joseph A. Duke; 2 years; \$12,000

WHITMAN COLLEGE, Walla Walla, Wash.; Arthur G. Rempel; 2 years; \$24,950

WILKES COLLEGE, Wilkes-Barre, Pa.; Charles B. Reif; 2 years; \$1,400

WILLAMETTE UNIVERSITY, Salem, Oreg.; Robert L. Purbrick; 2 years; \$5,100

WILLIAM MARSH RICE UNIVERSITY, Houston, Tex.; John A. S. Adams; 2 years; \$17,000

WILLIAMS COLLEGE, Williamstown, Mass.; Richard O. Rouse, Jr.; 2 years; \$8,550

WISCONSIN STATE COLLEGE, La Crosse; Milford A. Cowley; 2 years; \$5,370

WISCONSIN STATE COLLEGE, Stevens Point; Monica E. Bainter; 2 years; \$4,950

WISCONSIN STATE COLLEGE, Superior; Phillip R. Brieske; 2 years; \$4,950

WISCONSIN STATE COLLEGE, Whitewater; Rudolph Prucha; 2 years; \$4,400

YALE UNIVERSITY, New Haven, Conn.; Horace D. Taft; 2 years; \$21,680

**UNDERGRADUATE SCIENCE EDUCATION PROGRAM**

AGRICULTURAL & MECHANICAL COLLEGE OF TEXAS, College Station; M. E. Bloodworth; 1 year; \$7,735

    John P. German; 9 months; \$680

    Harriott O. Kunkel; 23 months; \$11,155

    R. W. Mitchell; 3 months; \$5,985

AGRICULTURAL & TECHNICAL COLLEGE OF NORTH CAROLINA, Greensboro; Donald A. Edwards; 1 year; \$4,310

    Gladys W. Royal; 11 months; \$10,505

ALABAMA COLLEGE, Montevallo; Paul C. Bailey; 1 year; \$11,600

ALFRED UNIVERSITY, Alfred, N.Y.; Robert M. Campbell; 3 months; \$6,350

ALLEGHENY COLLEGE, Meadville, Pa.; Georgiana W. Scovill; 1 year; \$4,890

ALMA COLLEGE, Alma, Mich.; Arlan L. Edgar; 1 year; \$6,965

AMHERST COLLEGE, Amherst, Mass.; Robert H. Koch; 2 months; \$1,135

ANTIOCH COLLEGE, Yellow Springs, Ohio; James S. Corwin; 1 year; \$11,980

ARLINGTON STATE COLLEGE, Arlington, Tex.; Rayford L. Hoyle; 1 year; \$10,005

    C. L. McNulty, Jr.; 3 months; \$2,240

ASSOCIATED UNIVERSITIES, INC., New York, N.Y.; John W. Findlay, National Radio Astronomy Observatory, Green Bank, W. Va.; 3 months; \$7,300

AUBURN UNIVERSITY, Auburn, Ala.; W. S. Bailey; 1 year; \$4,580

    Howard Carr; 3 months; \$4,305

    William G. Sherling, Jr.; 1 year; \$10,150

BARNARD COLLEGE, COLUMBIA UNIVERSITY, New York, N.Y.; Lucena J. Barth; 9 months; \$2,345

    Emma Dietz Stecher; 4 months; \$3,910

BAYLOR UNIVERSITY, Waco, Tex.; Bryce C. Brown; 1 year; \$6,785

BELLARMINE COLLEGE, Louisville, Ky.; John M. Daly; 3 months; \$3,425

BOSTON COLLEGE, Chestnut Hill, Mass.; William Guindon; 3 months; \$3,220

BOWDOIN COLLEGE, Brunswick, Maine; Charles E. Huntington; 35 months; \$16,735

    Myron A. Jeppesen; 1 year; \$3,450

    Reinhard L. Korgen; 1 year; \$5,405

BOWLING GREEN STATE UNIVERSITY, Bowling Green, Ohio; W. H. Hall; 1 year; \$4,320

    Charles C. Rich; 9 months; \$620

BRANDEIS UNIVERSITY, Waltham, Mass.; Milton R. Baker; 1 year; \$3,680

    David A. Buchsbaum; 8 months; \$2,070

    Paul S. Dorain; 23 months; \$9,705

**BROOKLYN COLLEGE**, Brooklyn, N.Y.; Meyer Jordan; 1 year; \$12,880

**BROWN UNIVERSITY**, Providence, R.I.; John A. Dillon, Jr.; 11 months; \$3,625  
Thomas A. Mutch; 3 months; \$2,610  
John F. Neumer; 3 months; \$10,430  
Harold Schlosberg; 1 year; \$11,685

**BRYN MAWR COLLEGE**, Bryn Mawr, Pa.; Ernst Berliner; 5 months; \$8,280

**BUCKNELL UNIVERSITY**, Lewisburg, Pa.; Richard P. Nickelsen; 2 months; \$750  
Meldrum B. Winstead; 8 months; \$6,175

**BUREAU OF RESEARCH IN NEUROLOGY & PSYCHIATRY**, Princeton, N.J.; DeWitt H. Smith; 1 year; \$11,880  
Arthur Sohler; 3 months; \$2,130

**CANISUS COLLEGE**, Buffalo, N.Y.; Herman A. Szymanski; 3 months; \$5,980

**CARDINAL STRITCH COLLEGE**, Milwaukee, Wis.; Sister Mary John Baptist; 9 months; \$1,665

**CARLETON COLLEGE**, Northfield, Minn.; Frank C. Miller; 2 months; \$1,795  
Robert A. Reitz; 2 months; \$3,115

**CARNEGIE INSTITUTE OF TECHNOLOGY**, Pittsburgh, Pa.; Richard H. Lambert; 3 months; \$5,060  
E. T. Schmacher; 3 months; \$4,015

**CARROLL COLLEGE**, Waukesha, Wis.; Richard Eugene Bayer; 23 months; \$12,015

**CASE INSTITUTE OF TECHNOLOGY**, Cleveland, Ohio; Robert C. Weast; 1 year; \$45,125

**CATHOLIC UNIVERSITY**, Washington, D.C.; George E. McDuffe, Jr.; 3 months; \$4,500

**CHRISTIAN BROTHERS COLLEGE**, Memphis, Tenn.; Edward Doody; 1 year; \$2,550

**CITY COLLEGE**, New York, N.Y.; Bennington P. Gill; 9 months; \$6,095  
Mansour Javid; 1 year; \$8,685

**CLARK UNIVERSITY**, Worcester, Mass.; Vernon Ahmadjian; 1 year; \$9,315  
Roy S. Anderson; 1 year; \$2,990

**CLARKSON COLLEGE OF TECHNOLOGY**, Potsdam, N.Y.; Charles A. Howe; 1 year; \$8,680  
Thomas J. Ward; 1 year; \$6,785

**COLBY COLLEGE**, Waterville, Maine; James L. Fozard; 9 months; \$2,590  
Charles F. Hickox, Jr.; 1 year; \$1,950

**COLGATE UNIVERSITY**, Hamilton, N.Y.; Raymond J. Myers; 1 year; \$13,535

**COLLEGE OF THE HOLY CROSS**, Worcester, Mass.; Ram Sarup; 1 year; \$6,900

**COLLEGE OF MOUNT ST. VINCENT**, New York, N.Y.; Marguerite M. Caso; 9 months; \$3,300

**COLORADO COLLEGE**, Colorado Springs; Robert Z. Brown; 11 months; \$4,435  
Milton K. Snyder; 1 year; \$5,060

**COLORADO STATE UNIVERSITY**, Fort Collins; Ralph Baker; 5 months; \$6,970  
Edwin W. Mogren; 1 year; \$5,320  
Sumner M. Morrison; 23 months; \$17,065  
Harry E. Troxell; 1 year; \$5,685

**CORNELL COLLEGE**, Mount Vernon, Iowa; Eugene E. Hinman; 11 months; \$1,145  
T. Edwin Rogers; 9 months; \$1,095

**CORNELL UNIVERSITY**, Ithaca, N.Y.; N. C. Brady; 1 year; \$10,880  
David H. Geske; 5 months; \$30,820  
R. F. Holland; 1 year; \$7,040  
George C. Kent; 5 months; \$14,710

**DARTMOUTH COLLEGE**, Hanover, N.H.; William P. Davis; 23 months; \$19,045

**DEPAUL UNIVERSITY**, Chicago, Ill.; Robert C. Miller; 23 months; \$15,805

**DILLARD UNIVERSITY**, New Orleans, La.; J. Hamer; 1 year; \$9,315

**DREXEL INSTITUTE OF TECHNOLOGY**, Philadelphia, Pa.; Francis K. Davis, Jr.; 9 months; \$2,380

**DRURY COLLEGE**, Springfield, Mo.; Jorge L. Padron; 1 year; \$5,020

**DUKE UNIVERSITY**, Durham, N.C.; Jack W. Brehm; 1 year; \$5,060  
Earl I. Brown, II; 1 year; \$8,995  
Edward C. Horn; 1 year; \$3,970

**FAIRFIELD UNIVERSITY**, Fairfield, Conn.; John E. Kilmas, Jr.; 1 year; \$995

**FAIRLEIGH DICKINSON UNIVERSITY**, Rutherford, N.J.; Harold Weinberger; 3 months; \$5,925

**FISK UNIVERSITY**, Nashville, Tenn.; I. Wesley Elliott; 11 months; \$7,995  
James R. Lawson; 1 year; \$5,735

**FLORIDA SOUTHERN COLLEGE**, Lakeland; Margaret L. Gilbert; 1 year; \$14,640

**FLORIDA STATE UNIVERSITY**, Tallahassee; Grover L. Rogers; 11 months; \$4,280

**FORDHAM UNIVERSITY**, New York, N.Y.; Henry F. DeBaggis; 11 months; \$12,160  
Joseph F. Mulligan; 3 months; \$9,600  
Clarence C. Schubert; 1 year; \$9,250

**FRANKLIN & MARSHALL COLLEGE**, Lancaster, Pa.; Frank D. Eneck; 1 year; \$6,370  
Fred H. Suydam; 8 months; \$17,250  
Donald W. Western; 14 months; \$6,030

**FREDERIC BURK FOUNDATION FOR EDUCATION**, San Francisco, Calif.; Eva F. Estermann; 11 months; \$840

**FURMAN UNIVERSITY**, Greenville, S.C.; Donald G. Kubler; 1 year; \$6,385

**GENEVA COLLEGE**, Beaver Falls, Pa.; Roy M. Adams; 1 year; \$8,000

**GEORGE WASHINGTON UNIVERSITY**, Washington, D.C.; Russell B. Stevens; 35 months; \$6,035  
Richard D. Walk; 1 year; \$7,000

**GEORGIA INSTITUTE OF TECHNOLOGY**, Atlanta; Edwin J. Scheibner; 1 year; \$4,080

**GRINNELL COLLEGE**, Grinnell, Iowa; Givens L. Thornton; 11 months; \$8,720

**HAMPDEN-SYDNEY COLLEGE**, Hampden-Sydney, Va.; G. Tyler Miller, Jr.; 3 months; \$4,775

**HARVARD UNIVERSITY**, Cambridge, Mass.; I. Bernard Cohen; 11 months; \$22,130

**HARVARD UNIVERSITY**, Cambridge, Mass.; George W. Goethals; 1 year; \$19,160  
Jesse F. Scott; 5 months; \$42,550  
Frank H. Westheimer; 3 months; \$41,960  
Stephen Williams; 3 months; \$12,995

**HARVEY MUDD COLLEGE**, Claremont, Calif.; Robert C. James; 1 year; \$6,530

**HAVERFORD COLLEGE**, Haverford, Pa.; Louis C. Green; 14 months; \$1,775

**HOWARD PAYNE COLLEGE**, Brownwood, Tex.; Chris S. Jordon; 1 year; \$915

**ILLINOIS INSTITUTE OF TECHNOLOGY**, Chicago; Peter Chiarulli; 3 months; \$3,380  
Leonard I. Grossweiner; 23 months; \$20,265

Ralph M. Krause; 1 year; \$11,000  
**IMMACULATE HEART COLLEGE**, Los Angeles, Calif.; Agnes A. Green; 3 months; \$6,900  
M. Gerald Shea; 1 year; \$5,230  
**INDIANA UNIVERSITY**, Bloomington; H. W. Hofstetter; 2 months; \$2,580  
Paul Klinge; 11 months; \$2,920  
Paul Klinge; 11 months; \$6,185  
V. J. Shiner, Jr.; 22 months; \$31,740  
Judson Mead; 1 year; \$5,805  
**IOWA STATE UNIVERSITY**, Ames; T. A. Bancroft; 1 year; \$8,000  
Kenneth D. Carlander; 1 year; \$9,090  
Paul A. Hartman; 1 year; \$8,565  
George G. Karas; 1 year; \$3,925  
Don C. Norton; 1 year; \$7,530  
Peter A. Peterson; 3 months; \$3,255  
Malcolm A. Rougyle; 1 year; \$11,030  
Glen A. Russell; 35 months; \$37,820  
**JACKSON STATE COLLEGE**, Jackson, Miss.; Benjamin H. McLemore; 1 year; \$5,250  
**JOHNS HOPKINS UNIVERSITY**, Baltimore, Md.; Walter S. Koski; 3 months; \$5,870  
**JUNIATA COLLEGE**, Huntingdon, Pa.; David M. Hercules; 1 year; \$10,730  
**KANSAS STATE COLLEGE OF PITTSBURG**; Joe M. Walker; 11 months; \$9,225  
**KANSAS STATE UNIVERSITY**, Manhattan; M. F. Hansen; 3 months; \$4,125  
Frazz Samelson; 4 months; \$11,250  
**KANSAS WESLEYAN UNIVERSITY**, Salina; Charles B. Creager; 11 months; \$3,750  
**KENTUCKY RESEARCH FOUNDATION**, Lexington; Jacob R. Meadow; 1 year; \$12,855  
**KING COLLEGE**, Bristol, Tenn.; Roy H. Bailey; 1 year; \$5,115  
**KING'S COLLEGE**, Wilkes-Barre, Pa.; James J. Sheehan; 3 months; \$3,675  
**LAKE FOREST COLLEGE**, Lake Forest, Ill.; Charles D. Louch; 3 months; \$2,415  
**LEBANON VALLEY COLLEGE**, Annville, Pa.; Karl L. Lockwood; 3 months; \$9,515  
**LEHIGH UNIVERSITY**, Bethlehem, Pa.; Jerome Daen; 1 year; \$21,310  
Everett Pitcher; 1 year; \$13,455  
**LORAS COLLEGE**, Dubuque, Iowa; George N. Schulte; 1 year; \$6,020  
**LOS ANGELES STATE COLLEGE FOUNDATION**, Los Angeles, Calif.; Richard T. Keys; 1 year; \$10,580  
**LOUISIANA POLYTECHNIC INSTITUTE**, Ruston; John J. McDow; 11 months; \$2,755  
**LOUISIANA STATE UNIVERSITY**, Baton Rouge; George C. Kent, Jr.; 14 months; \$9,370  
Grover E. Murray; 5 months; \$14,190  
Vincent E. Parker; 5 months; \$14,640  
**LOYOLA UNIVERSITY**, Chicago, Ill.; Robert E. Reisel; 9 months; \$4,845  
**LOYOLA UNIVERSITY**, New Orleans, La.; F. A. Benedetto; 34 months; \$34,155  
**MASSACHUSETTS INSTITUTE OF TECHNOLOGY**, Cambridge; Arthur C. Cope; 1 year; \$23,150  
**MCMURRAY COLLEGE**, Abilene, Tex.; Virgil E. Bottom; 11 months; \$3,000  
**MICHIGAN COLLEGE OF MINING & TECHNOLOGY**, Houghton; M. E. Volin; 1 year; \$5,600  
**MICHIGAN STATE UNIVERSITY**, East Lansing; John W. Andresen; 1 year; \$7,270  
John E. Shaver; 1 year; \$20,125  
**MICHIGAN STATE UNIVERSITY**, East Lansing; Paul Tomboullian; 9 months; \$1,785  
**MISSISSIPPI STATE UNIVERSITY**, State College; Lyell C. Behr; 1 year; \$11,240  
Charles B. Clett; 2 years; \$21,545  
Leslie L. Ellis; 1 year; \$7,450  
**MORRHOUSE COLLEGE**, Atlanta, Ga.; James H. Birnie; 27 months; \$11,190  
**MORGAN STATE COLLEGE**, Baltimore, Md.; Clarence F. Stephens; 1 year; \$6,555  
**MOUNT HOLYOKE COLLEGE**, South Hadley, Mass.; Grace E. Bates; 9 months; \$2,150  
Kathryn M. Eschenberg; 3 months; \$7,230  
Edwin S. Weaver; 6 months; \$20,285  
**MOUNT ST. MARY'S COLLEGE**, Los Angeles, Calif.; Hallie F. Bundy; 5 months; \$6,670  
**MOUNT ST. SCHOLASTICA COLLEGE**, Atchison, Kans.; Helen Sullivan; 9 months; \$1,895  
**MUSKINGUM COLLEGE**, New Concord, Ohio; Wilmer K. Fife; 1 year; \$3,195  
**NEW MEXICO INSTITUTE OF MINING & TECHNOLOGY**, Socorro; William Hume; 1 year; \$8,250  
**NEW MEXICO STATE UNIVERSITY**, University Park; James E. Weiss; 1 year; \$20,350  
**NEW YORK STATE DEPARTMENT OF HEALTH**, Albany; Ray K. Brown; 3 months; \$4,340  
**NEW YORK UNIVERSITY**, New York; Joseph D. Gettler; 1 year; \$19,285  
Leonard Yarmus; 5 months; \$12,510  
**NORFOLK COLLEGE OF WILLIAM & MARY**, Norfolk, Va.; Jacques S. Zaneveld; 1 year; \$5,690  
**NORTH CENTRAL COLLEGE**, Naperville, Ill.; Mary Anice Seybold; 11 months; \$2,480  
**NORTH DAKOTA STATE UNIVERSITY**, Fargo; John A. Callenbach; 1 year; \$20,315  
Donald Schwartz; 1 year; \$4,210  
**NORTH TEXAS STATE UNIVERSITY**, Denton; Robert C. Sherman; 1 year; \$25,900  
**NORTHEASTERN UNIVERSITY**, Boston, Mass.; Robert A. Shepard; 3 months; \$3,190  
Ralph A. Troupe; 3 months; \$4,835  
**NORTHERN ILLINOIS UNIVERSITY**, DeKalb; Sidney Mittler; 23 months; \$25,500  
**NORTHWESTERN STATE COLLEGE OF LOUISIANA**, Natchitoches; Alan H. Crosby; 11 months; \$3,500  
Richard E. Garth; 20 months; \$14,600  
**NORTHWESTERN UNIVERSITY**, Evanston, Ill.; Richard C. Bowers; 3 months; \$15,075  
Robert W. Hull; 1 year; \$13,765  
**OBERLIN COLLEGE**, Oberlin, Ohio; Fred Foreman; 11 months; \$2,200  
L. E. Steiner; 35 months; \$51,000  
Robert Weinstock; 2 months; \$1,885  
**OHIO STATE UNIVERSITY**, Columbus; Frank L. Himes; 1 year; \$3,165  
Lloyd M. Parks; 23 months; \$29,670  
**OHIO WESLEYAN UNIVERSITY**, Delaware; Robert W. Long; 20 months; \$2,195  
**OKLAHOMA STATE UNIVERSITY**, Stillwater; Marlowe D. Thorne; 1 year; \$14,315  
John W. West; 1 year; \$5,865  
Leon H. Zalkow; 1 year; \$7,890  
**OREGON STATE UNIVERSITY**, Corvallis; Fred W. Decker; 1 year; \$7,100  
J. R. Dilworth; 23 months; \$18,935

E. C. Gilbert; 5 months; \$18,865  
 Glenn W. Holcomb; 9 months; \$4,130  
 Leo A. Sculichetti; 1 year; \$8,910  
 Roy A. Young; 8 months; \$24,840

PACIFIC LUTHERAN COLLEGE, Tacoma, Wash.;  
 Charles D. Anderson; 1 year; \$7,650

PENNSYLVANIA STATE UNIVERSITY, University  
 Park; Walter I. Goldberg; 1 year; \$7,640  
 Harold J. Read; 8 months; \$7,245  
 Robert W. Stone; 1 year; \$7,130  
 William O. Williamson; 3 months; \$1,150

POLYTECHNIC INSTITUTE OF BROOKLYN,  
 Brooklyn, N.Y.; Ernest I. Becker; 3 years;  
 \$42,415  
 John J. Dropkin; 23 months; \$37,760  
 Jules P. Russell; 1 year; \$31,010

POMONA COLLEGE, Claremont, Calif.; Wil-  
 liam D. Andrus; 1 year; \$39,035

PRINCETON UNIVERSITY, Princeton, N.J.;  
 John G. Danielson; 3 months; \$23,610

PURDUE UNIVERSITY, Lafayette Ind.; Dur-  
 ward L. Allen; 1 year; \$6,975  
 Glenn B. Bergeson; 1 year; \$7,600  
 Gustav E. Cwallna; 1 year; \$5,535  
 George W. Hughes; 1 year; \$23,190  
 F. H. Wilt; 1 year; \$50,875

QUEENS COLLEGE, Flushing, N.Y.; Gregory  
 Razran; 1 year; \$5,865

REED COLLEGE, Portland, Oreg.; Frederick  
 D. Tabbutt; 1 year; \$12,605

RENSSELAER POLYTECHNIC INSTITUTE, Troy,  
 N.Y.; Stephen E. Wiberley; 3 months;  
 \$5,605

RESEARCH FOUNDATION OF STATE UNIVERSITY  
 OF NEW YORK, Albany; Hugh E. Hunter,  
 Binghamton; 11 months; \$7,255  
 Noel Simmons, Buffalo; 3 months; \$5,265  
 William T. Snyder, Oyster Bay; 1 year;  
 \$12,250  
 Edward C. Jahn, Syracuse; 3 months;  
 \$7,830  
 Ralph T. King, Syracuse; 3 months;  
 \$4,265

RIPON COLLEGE, Ripon, Wis.; Jack W.  
 Powers; 1 year; \$4,160

ROLLINS COLLEGE, Winter Park, Fla.; John  
 S. Ross; 23 months; \$4,715

ROSEMONT COLLEGE, Rosemont, Pa.; Mary  
 Colman Wall; 23 months; \$7,650

ROSWELL PARK MEMORIAL INSTITUTE, Buf-  
 falo, N.Y.; Edwin A. Mirand; 3 months;  
 \$23,000

RUTGERS, THE STATE UNIVERSITY, New  
 Brunswick, N.J.; James B. Durand, Camden;  
 9 months; \$635  
 Donald G. Forgays; 23 months; \$17,375  
 Bernard W. Koft; 2 months; \$1,915

SAVANNAH STATE COLLEGE, Savannah, Ga.;  
 Charles Pratt; 1 year; \$3,200

ST. LAWRENCE UNIVERSITY, Canton, N.Y.;  
 Gilbert E. Moos; 3 months; \$2,185  
 Charles H. Stauffer; 9 months; \$1,440

ST. MARY'S COLLEGE, Winona, Minn.; H.  
 Charles; 23 months; \$15,480  
 H. Philip Hogan; 23 months; \$5,000

ST. OLAF COLLEGE, Northfield, Minn.; Paul  
 R. Burton; 3 months; \$3,605  
 John C. Marshall; 1 year; \$7,765  
 Thomas Rossing; 9 months; \$1,840

SAN DIEGO STATE COLLEGE FOUNDATION, San  
 Diego, Calif.; Burt Nelson; 1 year; \$5,050  
 Merle B. Turner; 1 year; \$8,625

Harold Walba; 1 year; \$21,475

SAN JOSE COLLEGE FOUNDATION, San Jose,  
 Calif.; Lloyd Van Alten; 23 months; \$23,385

SEATTLE PACIFIC COLLEGE, Seattle, Wash.;  
 Donald D. Kerlee; 3 months; \$4,255

SETON HALL UNIVERSITY, South Orange,  
 N.J.; Alfred V. Cellano; 11 months; \$16,915

SMITH COLLEGE, Northampton, Mass.; Milton  
 D. Soffer; 3 months; \$6,385

SOUTH DAKOTA SCHOOL OF MINES AND TECH-  
 NOLOGY, Rapid City; George Rapp, Jr.; 3  
 months; \$1,550

SOUTH DAKOTA STATE COLLEGE, Brookings;  
 Lawrence O. Fine; 3 months; \$2,000  
 John Tanaka; 1 year; \$2,700

SOUTHERN ILLINOIS UNIVERSITY, Carbondale;  
 William C. Ashby; 11 months; \$6,555

SOUTHERN OREGON COLLEGE, Ashland; Frank-  
 lin W. Sturges; 1 year; \$10,510

SPRING HILL COLLEGE, Mobile, Ala.; Walter  
 J. Rhein; 2 months; \$4,035

STANFORD UNIVERSITY, Stanford, Calif.; Wil-  
 liam R. Dickinson; 11 months; \$4,890  
 O. Cutler Shepard; 18 months; \$11,420

STATE UNIVERSITY OF IOWA, Iowa City;  
 James O. Osburn; 1 year; \$7,240  
 Milton E. Rosenbaum; 3 months; \$5,405

STATE UNIVERSITY OF NEW YORK COLLEGE OF  
 CERAMICS, ALFRED UNIVERSITY, Alfred;  
 Charles E. Greene; 1 year; \$6,500

STATE UNIVERSITY OF SOUTH DAKOTA, Ver-  
 million; Roger T. Davis; 1 year; \$7,475  
 Theodore L. Reid; 2 months; \$4,440

STEPHEN F. AUSTIN STATE COLLEGE, Nacog-  
 doches, Tex.; W. I. Layton; 9 months; \$745

STEVENS INSTITUTE OF TECHNOLOGY, Ho-  
 boken, N.J.; Henry Polowy; 1 year; \$7,665  
 Rolf Weil; 1 year; \$5,405

SYRACUSE UNIVERSITY, Syracuse, N.Y.; Dar-  
 shan S. Dossanjh; 1 year; \$7,705  
 Paul W. Gilbert; 1 year; \$9,895  
 Wilbur R. LePage; 13 months; \$8,475  
 James A. Luker; 1 year; \$13,150  
 Wallace R. McAllister; 1 year; \$7,000  
 William M. Merrill; 1 year; \$6,850  
 Henry E. Wirth; 23 months; \$30,980

TENNESSEE WESLEYAN COLLEGE, Athens;  
 Carl Honaker; 1 year; \$3,280

TEXAS SOUTHERN UNIVERSITY, Houston;  
 Robert J. Terry; 3 months; \$18,445

TEXAS WOMAN'S UNIVERSITY, Denton; Wil-  
 liam L. Mecay; 3 years; \$5,080

THIEL COLLEGE, Greenville, Pa.; Kenneth G.  
 Wood; 1 year; \$2,935

TRINITY COLLEGE, Hartford, Conn.; Austin  
 C. Herschberger; 1 year; \$4,760

TRINITY COLLEGE, Washington, D.C.; Marie  
 Therese Dimond; 3 months; \$3,400

TULANE UNIVERSITY, New Orleans, La.; Hans  
 B. Jonassen; 1 year; \$8,735  
 Vera T. Kanareff; 9 months; \$405

UNION COLLEGE AND UNIVERSITY, Schene-  
 cady, N.Y.; R. Rappaport; 23 months;  
 \$14,260

UNIVERSITY OF ALABAMA, University; Mar-  
 garet Green; 3 months; \$5,175

UNIVERSITY OF ALASKA, College; Allan H.  
 Mick; 3 months; \$6,975

UNIVERSITY OF ARIZONA, Tucson; Henry  
 Freiser; 1 year; \$7,130



UNIVERSITY OF ARKANSAS, Fayetteville; D. O. Akhurst; 1 year; \$4,970  
 Lowell F. Bailey; 1 year; \$5,695  
 Glen T. Clayton; 1 year; \$14,030  
 Arthur Fry; 2 years; \$35,880  
 George E. Templeton; 3 months; \$1,505

UNIVERSITY OF BUFFALO, Buffalo, N.Y.; Frank R. Olson; 9 months; \$7,600

UNIVERSITY OF CALIFORNIA, Berkeley; Howell V. Daly; 11 months; \$13,760  
 Donald M. Reynolds, Davis; 1 year; \$9,315  
 Edward C. Carterette, Los Angeles; 11 months; \$17,525  
 Daniel Kivelson, Los Angeles; 35 months; \$57,385  
 Malcolm F. Smiley, Riverside; 1 year; \$8,365

UNIVERSITY OF CHICAGO, Chicago, Ill.; Dorothea Starbuck Miller; 1 year; \$17,220  
 Theodore Schaefer, Jr.; 11 months; \$12,050

UNIVERSITY OF COLORADO, Boulder; Donald G. Burkhard; 1 year; \$18,460  
 Frank Kreith; 3 months; \$20,470  
 John W. Marr; 35 months; \$30,965  
 Burnett Meyer; 9 months; \$2,945

UNIVERSITY OF DELAWARE, Newark; Charles B. Cooper; 2 months; \$780  
 Charles B. Cooper; 11 months; \$2,770

UNIVERSITY OF GEORGIA, Athens; J. Clyde Driggers; 1 year; \$10,090  
 John H. Henkel; 5 months; \$31,325  
 Robert A. McRorie; 1 year; \$15,420  
 R. Barclay McGhee; 3 months; \$6,910

UNIVERSITY OF IDAHO, Moscow; Malcolm M. Renfrew; 11 months; \$6,195  
 Malcolm M. Renfrew; 23 months; \$9,415

UNIVERSITY OF ILLINOIS, Urbana; D. E. Alexander; 3 months; \$695  
 Morton W. Weir; 11 months; \$23,205

UNIVERSITY OF KANSAS, Lawrence; Ray P. Cuzzort; 1 year; \$7,020  
 Harold F. Rosson; 3 months; \$5,520  
 Frederick E. Samson, Jr.; 1 year; \$30,090  
 Edward E. Smissman; 1 year; \$15,640  
 Arnold A. Strassenburg; 1 year; \$5,425

UNIVERSITY OF KANSAS CITY, Kansas City, Mo.; Frank Millich; 3 months; \$11,985

UNIVERSITY OF LOUISVILLE, Louisville, Ky.; Calvin A. Lang; 3 months; \$8,590  
 Kevin T. Potts; 1 year; \$6,035

UNIVERSITY OF MARYLAND, College Park; John W. Brace; 11 months; \$5,095  
 Joshua R. C. Brown; 1 year; \$5,860  
 Gilbert Gordon; 1 year; \$11,270

UNIVERSITY OF MASSACHUSETTS, Amherst; John A. Chandler; 3 months; \$7,935  
 Phillips R. Jones; 23 months; \$6,670  
 D. S. Van Fleet; 1 year; \$10,235

UNIVERSITY OF MIAMI, Coral Gables, Fla.; Samuel P. Myers, Miami; 6 months; \$9,975

UNIVERSITY OF MICHIGAN, Ann Arbor; Kenneth L. Jones; 2 months; \$5,050  
 Jack E. McLaughlin; 2 months; \$17,045  
 Orren C. Mohler, 3 months; \$3,220  
 Robert C. Taylor; 1 year; \$10,925  
 Russell T. Woodburne; 11 months; \$6,210

UNIVERSITY OF MINNESOTA, Minneapolis; James C. Nichol; 1 year; \$7,360  
 George W. Preckshot; 26 months; \$31,445

UNIVERSITY OF MISSISSIPPI, University; Virgil M. Benson; 23 months; \$29,495

UNIVERSITY OF MISSOURI, Columbia; Harold Q. Fuller, Rolla; 1 year; \$6,545  
 Mack M. Jones; 1 year; \$6,435

UNIVERSITY OF NEBRASKA, Lincoln; G. A. Gallup; 11 months; \$11,590  
 J. A. Fagerstrom; 3 months; \$2,290

UNIVERSITY OF NEVADA, Reno; Kenneth C. Kemp; 1 year; \$4,570  
 Paul F. Secord; 1 year; \$8,065

UNIVERSITY OF NEW HAMPSHIRE, Durham; M. Evans Munroe; 1 year; \$14,560  
 Robert Lyle; 3 months; \$4,025

UNIVERSITY OF NEW MEXICO, Albuquerque; James R. Barton; 1 year; \$8,370

UNIVERSITY OF NORTH CAROLINA, Chapel Hill; James C. Kellett, Jr.; 1 year; \$3,675  
 E. O. Beal, Raleigh; 9 months; \$1,840  
 Paul H. Harvey, Raleigh; 5 months; \$21,045  
 T. E. Maki, Raleigh; 1 year; \$6,040  
 Richard L. Simpson, Raleigh; 3 months; \$12,125  
 Richard L. Simpson; 1 year; \$4,000  
 Alfred J. Stamm, Raleigh; 1 year; \$4,140  
 Ralph C. Swann, Raleigh; 3 months; \$8,425

UNIVERSITY OF NORTH DAKOTA, Grand Forks; Benjamin De Boer; 1 year; \$4,000  
 Robert Rosenthal; 3 months; \$2,070

UNIVERSITY OF NOTRE DAME, Notre Dame, Ind.; Kenneth R. Lauer; 1 year; \$5,830  
 E. A. Peretti; 1 year; \$3,470

UNIVERSITY OF OKLAHOMA, Norman; Robert D. Burns; 35 months; \$60,200  
 Alfred J. Weinheimer; 1 year; \$10,550

UNIVERSITY OF OREGON, Eugene; A. F. Mour-sund; 35 months; \$26,560  
 Kenneth Polk; 35 months; \$34,640  
 Harry A. Shoemaker; 23 months; \$36,040

UNIVERSITY OF PENNSYLVANIA, Philadelphia; George E. Schweigert; 11 months; \$6,800

UNIVERSITY OF PITTSBURGH, Pittsburgh, Pa.; A. F. Frederickson; 1 year; \$6,955

UNIVERSITY OF PORTLAND, Portland, Oreg.; Ambrose J. Wheeler; 9 months; \$9,290

UNIVERSITY OF PUERTO RICO, Mayaguez; Justo Hernandez Mora; 1 year; \$2,890  
 Noemi G. Martinez Nadal; 9 months; \$3,105

UNIVERSITY OF REDLANDS, Redlands, Calif.; Reinhold J. Krantz; 1 year; \$8,950

UNIVERSITY OF RHODE ISLAND, Kingston; Charles Polk; 1 year; \$8,390

UNIVERSITY OF ROCHESTER, Rochester, N.Y.; S. D. S. Spragg; 23 months; \$13,050

UNIVERSITY OF SAN FRANCISCO, San Francisco, Calif.; William Maroney; 1 year; \$4,780

UNIVERSITY OF SANTA CLARA, Santa Clara, Calif.; Abraham P. Hillman; 34 months; \$26,700

UNIVERSITY OF SCRANTON, Scranton, Pa.; Martin D. Appleton; 3 months; \$6,500

UNIVERSITY OF THE SOUTH, Sewanee, Tenn.; William T. Allen; 3 months; \$1,980  
 David B. Camp; 3 months; \$3,350  
 Stephen Puckette; 3 months; \$5,775

UNIVERSITY OF SOUTH CAROLINA, Columbia; O. D. Bonner; 35 months; \$14,490  
 E. Fontelle Thompson, Jr.; 3 months; \$7,045

Eugene C. Woodward, Jr.; 23 months; \$7,475

UNIVERSITY OF SOUTH FLORIDA, Tampa; Jack E. Fernandez; 1 year; \$16,295

UNIVERSITY OF SOUTHWESTERN LOUISIANA, Lafayette; James R. Oliver; 1 year; \$4,410

UNIVERSITY OF TENNESSEE, Knoxville; Newell S. Bowman; 3 months; \$11,670

B. J. Demott; 1 year; \$4,140

Arthur W. Jones; 11 months; \$4,715

Alvin H. Nielsen; 1 year; \$5,865

Fred H. Norris; 1 year; \$6,385

Seldon D. Feurt, Memphis; 1 year; \$5,895

William E. Jefferson, Jr., Memphis; 3 months; \$6,555

UNIVERSITY OF TEXAS, Austin; Arwin A. Dougal; 1 year; \$5,405

Frank N. Edmonds, Jr.; 2 months; \$1,555

M. C. Huffstutler, Jr.; 1 year; \$5,455

UNIVERSITY OF UTAH, Salt Lake City; M. Duane Brown; 35 months; \$20,290

Don M. Rees; 1 year; \$4,180

UNIVERSITY OF VERMONT, Burlington; Clinton D. Cook; 3 months; \$7,015

Albert D. Crowell; 1 year; \$3,450

Bennett B. Murdock, Jr.; 23 months; \$14,830

UNIVERSITY OF WASHINGTON, Seattle; Nathan A. Hall; 1 year; \$5,740

William B. Woolf; 11 months; \$21,125

UNIVERSITY OF WISCONSIN, Madison; Robert H. Dott, Jr.; 1 year; \$3,825

Harry L. Madison; 11 months; \$11,355

Harry P. Sharp; 1 year; \$15,035

UNIVERSITY OF WYOMING, Laramie; Brainerd Mears, Jr.; 3 months; \$2,600

URSULINE COLLEGE, Louisville, Ky.; M. Angelica Selbert; 22 months; \$5,890

UTAH STATE UNIVERSITY, Logan; DuWayne L. Goodwin; 1 year; \$6,095

Allen W. Stokes; 3 months; \$3,910

VANDERBILT UNIVERSITY, Nashville, Tenn.; James J. Friauf; 2 months; \$9,320

William H. Rowan; 1 year; \$5,175

W. Dennis Threadgill; 1 year; \$4,600

VILLA MADONNA COLLEGE, Covington, Ky.; James E. Cantrill; 1 year; \$4,335

John F. Schuler; 1 year; \$4,945

VILLANOVA UNIVERSITY, Villanova, Pa.; R. E. White; 1 year; \$4,570

VIRGINIA POLYTECHNIC INSTITUTE, Blacksburg; C. E. Howes; 1 year; \$2,700

Robert C. Krug; 5 months; \$6,440

George W. Litton; 23 months; \$1,725

VIRGINIA STATE COLLEGE, Petersburg; Bernard R. Woodson, Jr.; 1 year; \$5,100

WABASH COLLEGE, Crawfordsville, Ind.; Robert L. Henry; 3 months; \$1,400

WASHINGTON AND LEE UNIVERSITY, Lexington, Va.; J. Thomas Ratchford; 9 months; \$2,260

WASHINGTON STATE UNIVERSITY, Pullman; Richard A. Parker; 23 months; \$12,190

WASHINGTON UNIVERSITY, St. Louis, Mo.; Norton H. Nickerson; 1 year; \$3,820

WAYNE STATE UNIVERSITY, Detroit, Mich.; Harold E. Bailey; 1 year; \$2,445

Henry V. Bohm; 1 year; \$11,900

WELLESLEY COLLEGE, Wellesley, Mass.; Jean V. Crawford; 2 months; \$7,115

WESLEYAN UNIVERSITY, Middletown, Conn.; G. Phillip Johnson; 34 months; \$49,785

Joe Webb Peoples; 1 year; \$4,610

WEST VIRGINIA UNIVERSITY, Morgantown; Horace L. Barnett; 1 year; \$7,130

Jack D. Graybeal; 3 months; \$9,715

Jerome F. Farmer; 1 year; \$8,190

WESTERN MICHIGAN UNIVERSITY, Kalamazoo; Lillian H. Meyer; 11 months; \$8,300

Paul Rood; 11 months; \$3,670

WESTERN RESERVE UNIVERSITY, Cleveland, Ohio; Howard A. Schneiderman; 1 year; \$10,750

WILKES COLLEGE, Wilkes-Barre, Pa.; Francis J. Michelini; 13 months; \$12,835

WILLAMETTE UNIVERSITY, Salem, Oreg.; Robert L. Purbrick; 1 year; \$4,945

WILLIAM JEWELL COLLEGE, Liberty, Mo.; Wallace A. Hilton; 9 months; \$1,440

WILLIAMS COLLEGE, Williamstown, Mass.; Thomas C. McGill; 3 months; \$2,300

WILMINGTON COLLEGE, Wilmington, Ohio; Harry H. Johnston; 3 months; \$1,890

WORCESTER POLYTECHNIC INSTITUTE, Worcester, Mass.; Wilmer L. Kranich; 1 year; \$12,280

Allan E. Parker; 8 months; \$32,775

Donald W. Zwiep; 3 months; \$4,810

XAVIER UNIVERSITY, Cincinnati, Ohio; Harvey A. Dube; 1 year; \$8,690

John B. Hart; 3 months; \$2,430

YALE UNIVERSITY, New Haven, Conn.; Nuel D. Beinap, Jr.; 5 months; \$7,935

E. J. Boell; 23 months; \$23,575

John P. Cheslck; 35 months; \$77,400

John E. Sanders; 23 months; \$31,500

John G. Skalnik; 1 year; \$6,440

YESHIVA UNIVERSITY, New York, N.Y.; Phyllis H. Cahn; 23 months; \$3,110

Harry E. Rauch; 1 year; \$5,460

**VISITING SCIENTISTS TO SECONDARY SCHOOLS PROGRAM**

AMERICAN CHEMICAL SOCIETY, Washington, D.C.; Donald J. Cook, De Pauw University; 32 months; \$24,300

AMERICAN INSTITUTE OF BIOLOGICAL SCIENCES, Washington, D.C.; Hiden T. Cox; 30 month; \$63,540

MATHEMATICAL ASSOCIATION OF AMERICA, Buffalo, N.Y.; Cletus O. Oakley, Haverford College; 1 year; \$12,000

**VISITING SCIENTISTS TO COLLEGES PROGRAM**

AMERICAN ANTHROPOLOGICAL ASSOCIATION, Washington, D.C.; Leslie A. White; 30 months; \$20,855

AMERICAN ASTRONOMICAL SOCIETY, Princeton, N.J.; Franklyn M. Branley; 32 months; \$23,675

AMERICAN INSTITUTE OF BIOLOGICAL SCIENCES, Washington, D.C.; Hiden T. Cox; 30 months; \$97,500

AMERICAN INSTITUTE OF PHYSICS, New York, N.Y.; Elmer Hutchisson; 31 months; \$25,715

AMERICAN METEOROLOGICAL SOCIETY, Boston, Mass.; Kenneth C. Spengler; 32 months; \$33,350

AMERICAN SOCIETY FOR ENGINEERING EDUCATION, Urbana, Illinois; W. Leighton Collins; 31 months; \$24,700

MATHEMATICAL ASSOCIATION OF AMERICA, INC., Buffalo, N.Y.; Robert A. Rosenbaum; 33 months; \$50,000

## ECONOMIC AND STATISTICAL STUDIES

U.S. DEPARTMENT OF COMMERCE, BUREAU OF THE CENSUS, Washington, D.C.; Maxwell R. Conklin; *Survey of Funds for Performance and Financing of Research and Development in Industrial Firms During 1961*; \$95,000

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, OFFICE OF EDUCATION, Washington, D.C.; Virgil R. Walker; *National Science Foundation Survey of Manpower in Colleges and Universities, Academic Year 1961*; 1 year; \$18,000

U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS, Washington, D.C.; Ewan Clague; *Cost Index Applicable to Research and Development Budgets*; \$17,000

## INSTITUTIONAL PROGRAMS

### GRADUATE-LEVEL RESEARCH FACILITIES

ADELPHI COLLEGE, Garden City, N.Y.; A. M. Vogel; *Construction of a Laboratory for Research in Chemistry*; 1 year; \$5,900

AGRICULTURAL & MECHANICAL COLLEGE OF TEXAS, College Station; Dale F. Lelpper; *Expansion and Renovation of Research Facilities in the Department of Oceanography and Meteorology*; 1 year; \$25,000

A. M. Sorensen, Jr.; *Laboratory Facilities for Research in the Physiology of Reproduction Section*; 1 year; \$30,000

BRANDEIS UNIVERSITY, Waltham, Mass.; Edgar H. Brown, Jr.; *Construction of Research Facilities in a Mathematics Building*; 2 years; \$166,000

Harold P. Klein; *Construction of New Research Facilities in Department of Biology*; 3 years; \$771,900

S. S. Schweber; *Construction of Physics Research Facilities in New Physics Building*; 2 years; \$500,000

BROWN UNIVERSITY, Providence, R.I.; Joseph F. Bunnett; *Construction of an Addition to and Alterations in an Existing Building to Provide Research Facilities in Department of Chemistry*; 1 year; \$70,000

Paul F. Maeder; *Completion of Research Space in the New Engineering Laboratory*; 1 year; \$67,100

Maimon Nasatir; *Renovation of the Plant Physiology Laboratory*; 1 year; \$10,100

R. A. Yund; *Remodeling Space for a Mineralogical Research Laboratory*; 1 year; \$1,950

BYRN MAWR COLLEGE, Bryn Mawr, Pa.; Walter C. Michels; *Expansion of Research Facilities for the Departments of Physics, Mathematics, Geology, and Chemistry*; 1 year; \$150,000

CALIFORNIA INSTITUTE OF TECHNOLOGY, Pasadena; F. C. Lindvall; *Graduate Research Portion of a New Computing and Electrical Sciences Laboratories Building*; 2½ years; \$842,000

Robert P. Sharp; *Laboratory Research Facilities for Paleocology, Paleontology, and*

*Related Aspects of Isotope Geochemistry*; 1 year; \$15,550

CARNEGIE INSTITUTE OF TECHNOLOGY, Pittsburgh, Pa.; L. A. Finzi and A. G. Milnes; *Renovation of Research Facilities in the Field of Cryogenic Electronics*; 1 year; \$5,800

CASE INSTITUTE OF TECHNOLOGY, Cleveland, Ohio; S. W. McCuskey; *Expansion of Astronomy Research Facilities at the Warner and Swasey Observatory*; 1 year; \$67,200

CLARK UNIVERSITY, Worcester, Mass.; R. S. Anderson; *Renovation of Space for Physics Research Laboratories*; 1 year; \$21,400

COLUMBIA UNIVERSITY, New York, N.Y.; C. O. Beckman; *Renovation of Chemical Research Laboratories*; 1 year; \$133,000

Richard Christie; *Remodeling Space for Research Facilities in Social Psychology*; 1 year; \$19,200

S. Ellenberg; *Remodeling of Research Facilities for the Department of Mathematics*; 1 year; \$60,000

Maurice Ewing, Pallsades; *Construction of a Research Laboratory Building at the Lamont Geological Observatory*; 2 years; \$250,000

Harry Grundfest; *Remodeling Space for Electrophysiology Laboratory*; 1 year; \$15,000

CORNELL UNIVERSITY, Ithaca, N.Y.; William Lambert and Leo Meltzer; *Remodeling Laboratory Facilities for Research in Experimental Social Psychology*; 1 year; \$9,300

F. A. Long; *Conversion of Two Rooms into Modern Chemistry Research Laboratories*; 1 year; \$18,000

M. L. Nichols; *Renovation of the Ventilating System in Chemistry Department*; 1 year; \$12,000

L. G. Parratt; *Construction of Research Facilities in a New Physical Sciences Building*; 2 years; \$270,000

A. F. Ross; *Completion and Furnishing of Virology-Nematology Research Laboratory*; 1 year; \$64,500

DUKE UNIVERSITY, Durham, N.C.; Karl E. Zener and John C. McKinney; *Expansion and Renovation of Research Facilities in Department of Psychology and Department of Sociology and Anthropology*; 3 years; \$462,700

EMORY UNIVERSITY, Atlanta, Ga.; C. G. Goodchild; *Renovation of Research Laboratories in the Department of Biology*; 1 year; \$5,300

FORDHAM UNIVERSITY, New York, N.Y.; E. J. Moriconi; *Refurbishment and Renovation of Space into a Physical Chemistry Research Laboratory*; 1 year; \$7,800

GEORGETOWN UNIVERSITY, Washington, D.C.; John C. Rose; *Construction of New and Renovation of Existing Laboratory Facilities in Department of Physiology and Biophysics*; 1 year; \$31,200

Matthew P. Thekaekara; *Fixed Equipment for Research Facility in Physics*; 1 year; \$24,700

GEORGIA INSTITUTE OF TECHNOLOGY, Atlanta; H. V. Grubb; *Construction of Laboratory Facilities in a New Chemical Engineering-Ceramic Engineering Building*; 2 years; \$150,000

HARVARD UNIVERSITY, Cambridge, Mass.; Francis Birch; *Construction of a New Lab-*

oratory for Research in Experimental Geology; 2 years; \$200,000

F. Karl Willenbrock; Construction of New Engineering Laboratory; 2 years; \$225,000

Robert W. White and Edwin B. Newman; Construction of Research Facilities for Departments of Psychology and Social Relations in New Behavioral Sciences Building; 3 years; \$1,400,000

ILLINOIS STATE NORMAL UNIVERSITY, Normal; R. O. Rilett; Construction of Research Facilities for the Department of Biological Sciences; 2 years; \$180,000

INDIANA UNIVERSITY, Bloomington; Lyle V. Beck; Remodeling of a Room for a Research Laboratory for Pharmacology; 1 year; \$4,000

J. A. Franklin; Construction of a Research Wing for the Chemistry Building; 2 years; \$150,000

M. M. Rhoades; Laboratory Facilities for Research in the Department of Botany; 1 year; \$1,100

T. M. Sonneborn; Remodeling Facilities for Research in Zoology; 1 year; \$2,300

IOWA STATE UNIVERSITY, Ames; R. S. Allen; Research Facilities for Department of Biochemistry-Biophysics in New Chemistry Building Addition; 3 years; \$217,500

Floyd Andre; Construction of Research Facilities in a New Animal Industries Building; 3 years; \$50,000

T. A. Bancroft; Expansion, Modernization, and Renovation of Mathematical Statistics Research Facilities; 1 year; \$4,300

G. A. Russell; Research Facilities for Department of Chemistry in New Chemistry Building Addition; 3 years; \$400,000

KANSAS STATE UNIVERSITY, Manhattan, A. B. Cardwell; Construction of Laboratories for Research in Physics; 2 years; \$200,000

Milton E. Raville; Construction of a Research Laboratory in the Department of Applied Mechanics; 1 year; \$4,000

KENT STATE UNIVERSITY, Kent, Ohio; Vincent Gallicchio; Renovation of Laboratory Facilities in the Life Sciences Research Center; 1 year; \$15,600

LOUISIANA STATE UNIVERSITY, Baton Rouge; C. S. McCleskey; Expansion of Research Laboratories for Bacteriology; 1 year; \$8,000

Hulen B. Williams; Completion of Facilities for Research in the Department of Chemistry; 1 year; \$4,900

MASSACHUSETTS INSTITUTE OF TECHNOLOGY, Cambridge; Arthur C. Cope; Remodeling Facilities for Analytical and Physical Chemistry Research; 18 months; \$60,000

John W. Irvine, Jr.; Remodeling and Furnishing Research Facilities in Nuclear and Inorganic Chemistry Laboratories; 1 year; \$228,500

T. J. Thompson and N. C. Rasmussen; Renovation and Expansion of Laboratory Facilities for Nuclear Energy Research; 1 year; \$139,700

Kenneth R. Wadleigh; Development of a New Interdisciplinary Engineering Laboratory; 1 year; \$80,000

MICHIGAN STATE UNIVERSITY, East Lansing; Donald M. Johnson; Renovation of a Building into a Research Laboratory in Psychology; 2 years; \$300,000

J. D. Ryder; Construction of Research Facilities in Engineering Science; 1 year; \$250,000

MONTANA STATE COLLEGE, Bozeman; D. J. Reed; Construction of Facilities for Research in New Chemistry Building; 1 year; \$25,000

NEW YORK UNIVERSITY, New York; Stuart W. Cook; Alteration of Space for Research Facilities in Physiological Psychology and Animal Behavior; 1 year; \$41,000

James J. Stoker; Relocation and Expansion of the Research Facilities of the Institute of Mathematical Sciences—Phase I; 1 year; \$192,400

NORTH DAKOTA STATE UNIVERSITY, Fargo; J. A. Callenbach; Construction of Controlled Environment Facilities for Research in the Natural Sciences; 1 year; \$15,000

A. B. Schooler; New Laboratory Facilities for Cytogenetic Research; 1 year; \$1,600

NORTHWESTERN UNIVERSITY, Evanston, Ill.; Robert W. Hull and William T. Doyle; Renovation of Laboratory Facilities in the Department of Biological Science; 1 year; \$14,600

Allen S. Hussey; New Laboratory Facilities for Research in Chemistry (Biochemistry); 2 years; \$88,800

OHIO STATE UNIVERSITY, Columbus; Mars G. Fontana; New Facilities for Research in Metal Physics and Physical Chemistry of Metals; 2 years; \$194,375

Wilfrid R. Foster; Construction of Facilities for Research in Mineralogy, Crystallography, and Geochemistry; 1½ years; \$55,000

Q. Van Winkle; Conversion of Space into a Laboratory for Surface Chemistry Research; 1 year; \$6,700

OHIO UNIVERSITY, Athens; D. R. Clippinger; Conversion of Space to Research Facilities for Physics and Chemistry; 1 year; \$10,000

OKLAHOMA STATE UNIVERSITY, Stillwater; J. H. Boggs; Renovation of Mechanical Engineering Research Laboratories; 1 year; \$12,000

Louis E. Hawkins; Controlled Environment Facility for Plant Science Research; 1 year; \$95,000

L. M. Henderson; Construction of Research Laboratories in Biochemistry Portion of Chemistry-Physics Building; 3 years; \$150,000

OREGON STATE UNIVERSITY, Corvallis; Vernon H. Cheldelin; Fixed Equipment for the New Science Research Institute Building; 2 years; \$37,000

Milo Popovich; Construction of Research Laboratories in Fields Related to Radiation Science; 2 years; \$200,000

PENNSYLVANIA STATE UNIVERSITY, University Park; J. G. Aston and J. J. Fritz; Construction of Laboratory Facilities for Low Temperature High Magnetic Field Research; 1 year; \$31,000

Arthur H. Brayfield; Renovation of a Facility for Research in Physiological and Comparative Psychology; 1 year; \$8,900

R. H. Jahns; Construction of an Earth Sciences Addition to the Mineral Sciences Building; 2½ years; \$600,000

F. W. Lampe; Conversion of Basement Area into Facilities for Research in Chemistry; 1 year; \$50,000

H. B. Sprague, J. E. Livingston, and R. E. Larson; Research Facilities at the Plant Science Research Center; 1 year; \$50,000

J. M. Warren; *Construction of a Laboratory for Psychobiological Research*; 2 years; \$154,100

A. H. Waynick; *Construction of a New Wing and Radio Astronomy Laboratory for the Electrical Engineering Department*; 2 years; \$227,800

POLYTECHNIC INSTITUTE OF BROOKLYN, Brooklyn, N.Y.; C. G. Overberger; *Renovation and Expansion of Research Facilities in the Chemistry Department*; 1½ years; \$53,700

PRINCETON UNIVERSITY, Princeton, N.J.; D. F. Hornig; *Construction of a New Chemistry Research Laboratory*; 2 years; \$500,000

William P. Jacobs; *Controlled Environment Rooms and Chambers for Biological Research*; 1 year; \$3,300

Ernest Glen Wever; *Construction of Auditory Research Laboratories*; 2 years; \$96,700

PROVIDENCE COLLEGE, Providence, R.I.; Frederick C. Hickey; *Construction of Facilities in Medical Research Laboratory*; 1 year; \$32,400

PURDUE UNIVERSITY, Lafayette, Ind.; H. Y. Fan; *Remodeling of Laboratory Facilities for Research in Solid State Physics*; 1 year; \$15,000

J. V. Osmun; *Controlled Environment Facility for Research in Entomology*; 1 year; \$3,600

J. R. Shay; *Renovation and Partial Furnishing of Botanical Sciences Laboratories*; 1 year; \$46,100

RENSSELAER POLYTECHNIC INSTITUTE, Troy, N.Y.; Ronald J. Baskin; *Construction of Facilities for Research in Nerve and Muscle Physiology*; 1 year; \$5,000

William R. Clough; *Renovation of Laboratory Facilities for Research on High Temperature and Refractory Metals*; 1 year; \$1,500

Donald S. Miller; *Remodeling of Facilities for Geochemistry Research Laboratory*; 1 year; \$2,600

Robert L. Schiffman and Emmericus C. W. A. Geuze; *Modernization of the Winslow Laboratories for Soil Mechanics Research*; 1 year; \$13,200

RUTGERS, THE STATE UNIVERSITY, New Brunswick, N.J.; F. Kenneth Berrien; *Renovation of Facilities for Research in the Department of Psychology*; 1 year; \$13,700

John H. Koelg; *Construction of Ceramic Research Facilities in the New College of Engineering Building*; 1 year; \$50,000

Morgan Upton and Kenneth Haun; *Construction of a Psychopharmacology Laboratory*; 1 year; \$22,000

Peter A. Van der Meulen; *Construction of Additional Research Facilities in Laboratory of School of Chemistry*; 2 years; \$200,000

ST. JOHN'S UNIVERSITY, Jamaica, N.Y.; F. C. Chang; *Renovation of Space for Nuclear Research Laboratory*; 1 year; \$5,500

ST. LOUIS UNIVERSITY, St. Louis, Mo.; Kenneth H. Adams; *Construction of Research Laboratories in the Department of Chemistry*; 2 years; \$300,000

Alfred H. Weber; *Construction of Research Laboratories in the Department of Physics*; 2 years; \$223,000

STANFORD UNIVERSITY, Stanford, Calif.; David Gilberg; *Renovation of Space to*

*House Mathematics Department and Mathematics Laboratory*; 2 years; \$250,000

A. Kent Christensen; *Remodeling Laboratory Facilities for Research Utilizing Electron Microscopy*; 1 year; \$50,000

Joseph M. Pettit; *Remodeling and Renovation of Laboratory Buildings for Research in Engineering Mechanics*; 1 year; \$100,000

J. M. Pettit; *Remodeling of Research Laboratories in Materials Science and Chemical Engineering*; 2 years; \$125,000

Patrick C. Suppes; *Renovation of Laboratory Facilities in the Institute for Mathematical Studies in the Social Sciences*; 1 year; \$12,500

STATE UNIVERSITY OF IOWA, Iowa City; Jerry J. Kollros; *Construction of Zoology Building Research Addition*; 3 years; \$352,100

STATE UNIVERSITY OF NEW YORK COLLEGE OF CERAMICS AT ALFRED UNIVERSITY, Alfred, N.Y.; W. G. Lawrence; *Construction of Research Facilities for College of Ceramics*; 1 year; \$11,000

STATE UNIVERSITY OF NEW YORK COLLEGE OF FORESTRY AT SYRACUSE UNIVERSITY, Syracuse, N.Y.; Ralph T. King; *Rehabilitation of the Soil Invertebrate Fauna Laboratory in the Department of Forest Zoology*; 1 year; \$5,700

SYRACUSE UNIVERSITY, Syracuse, N.Y.; William M. Merrill; *Renovation and Modernization of Research Laboratories in the Department of Geology*; 1 year; \$25,000

Frederick G. Sherman; *Renovation and Expansion of Natural Sciences Research Library*; 1 year; \$38,100

G. A. Wiley; *Renovation and Expansion of Organic Chemistry Research Laboratory Space*; 1 year; \$20,500

Henry E. Wirth; *Renovation of Research Facilities in the Department of Chemistry*; 1 year; \$11,900

TEMPLE UNIVERSITY, Philadelphia, Pa.; Mann-Chiang Niu; *Renovation of Research Facilities in Embryology Laboratories*; 1 year; \$23,100

Earl H. Spaulding; *Conversion of Unfinished Space to a Laboratory for Graduate Research and Training in Microbiology*; 2 years; \$63,700

TUFTS UNIVERSITY, Medford, Mass.; B. F. Stearns and Kathryn A. McCarthy; *Expansion of Laboratory Facilities for Research in Physics*; 1 year; \$9,000

TULANE UNIVERSITY, New Orleans, La.; Ralph M. Rotty; *Construction of Research Facilities for Mechanical Engineering Department*; 1 year; \$29,500

UNIVERSITY OF ALASKA, College; K. M. Rae; *Construction of Research Facilities for the Institute of Marine Science*; 2 years; \$100,000

Wallace H. Fuller; *Graduate Research Facilities in Agricultural Chemistry and Soils*; 1 year; \$48,000

George A. Gries; *Renovation and Furnishing of Research Facilities in the Department of Plant Pathology*; 2 years; \$30,000

UNIVERSITY OF ARIZONA, Tucson; William H. Brown; *Renovation and Furnishing of Research Facilities for the Department of Dairy Science*; 2 years; \$7,100

Laurence A. Carruth; *Renovation and Furnishing of Research Facilities for Department of Entomology*; 2 years; \$53,000

Archie J. Deuscham, Jr.; *Construction of Laboratory Facilities in New Plant; Science Building for Research in Agricultural Biochemistry*; 1 year; \$10,000

Henry Freiser; *Remodeling of Facilities for Research in the Department of Chemistry*; 1½ years; \$100,000

D. F. McAlister; *Renovation and Furnishing of Research Facilities for Department of Agronomy*; 2 years; \$20,000

Terah L. Smiley; *Completion of Laboratory Facilities for Paleontological Research*; 1 year; \$15,500

UNIVERSITY OF ARKANSAS, Fayetteville; Robert C. Holland, Little Rock; *Remodeling of Space for Laboratory Facilities in the Department of Anatomy*; 1 year; \$6,600

UNIVERSITY OF CALIFORNIA, Berkeley; Ralph Emerson; *Remodeling Rooms for Research in Life Sciences Building*; 1 year; \$16,000

A. C. Helmholz; *Remodeling of Space to Provide Research Facilities in the Department of Physics*; 1 year; \$144,500

Leonard Machlis; *Renovation of Life Sciences Building*; 2 years; \$225,600

Joseph A. Pask; *Alteration and Rehabilitation of Facilities for Research in the Department of Mineral Technology*; 1 year; \$127,500

Milton A. Miller, Davis; *Renovation of Laboratory Facilities in the Department of Zoology*; 1 year; \$41,500

Leonard L. Morris and J. E. Knott, Davis; *Controlled Temperature Facilities for Research in Plant Physiology*; 3 years; \$200,000

Walter Kohn, San Diego; *Construction of Facilities for Research in Physics—Proposed Building C*; 2 years; \$300,000

Walter Munk, San Diego; *Construction of an Atmospheric Research Laboratory at La Jolla*; 2 years; \$276,000

UNIVERSITY OF CHICAGO, Chicago, Ill.; Herbert L. Anderson; *Laboratory Extensions for Physics Research in Enrico Fermi Institute for Nuclear Studies*; 1 year; \$79,400

UNIVERSITY OF CINCINNATI, Cincinnati, Ohio; William F. Jenks; *Renovation of Laboratory Facilities for Research in Geology*; 1 year; \$20,000

D. A. Wells; *Renovation of Facilities for Research in Physics*; 1 year; \$4,800

UNIVERSITY OF CONNECTICUT, Storrs; Hugh Clark; *Remodeling of Research Facilities for the Department of Genetics*; 1 year; \$35,900

UNIVERSITY OF DELAWARE, Newark; John T. Lanzetta and G. Fred Somers; *Construction of an Extension to and Renovation of Existing Laboratory Facilities in Departments of Biological Sciences and Psychology*; 8 years; \$300,000

UNIVERSITY OF DENVER, Denver, Colo.; W. M. Mueller; *Construction of an Annex for Metallurgical Research*; 1 year; \$51,500

UNIVERSITY OF FLORIDA, Gainesville; A. D. Conger; *Construction of Facilities for Radiation Biology Research*; 1 year; \$6,000

George K. Davis; *Construction of a Nuclear Science Building*; 2 years; \$350,000

Frederick N. Rhines; *Renovation of Laboratory Facilities for Research in Metallurgical Engineering*; 1 year; \$15,000

UNIVERSITY OF GEORGIA, Athens; C. W. Kuhn, Griffin; *Construction of Laboratory Facilities for Virus Research and a Greenhouse*; 1 year; \$21,700

Robert A. McMorie; *Expansion of Facilities for Research in Biochemistry*; 1 year; \$27,100

John H. Owen; *Construction of Facilities for Research in Plant Pathology and Plant Breeding*; 1 year; \$12,500

A. W. Scott; *Laboratory Facilities for Research in Chemistry*; 1 year; \$20,000

UNIVERSITY OF IDAHO, Moscow; E. W. Tisdale; *Renovation of Laboratory Facilities in College of Forestry*; 1 year; \$6,700

UNIVERSITY OF ILLINOIS, Urbana; George A. Deschamps; *Construction of a Laboratory for Research in Antennas and Electromagnetic Theory*; 1 year; \$110,000

L. Goldstein; *Construction of Additional Laboratory Facilities for Research in Gaseous Electronics*; 1 year; \$60,000

David Gottlieb; *Renovation and Equipping Laboratory Facilities for Research in Physiology and Biochemistry*; 1 year; \$10,600

H. O. Halvorson; *Research Facility for the School of Life Sciences*; 1 year; \$170,000

H. O. Halvorson; *Construction of a Life Sciences Research Laboratory*; 4 years; \$1,600,000

J. B. Kitzmiller and H. O. Halvorson; *Remodeling a Laboratory for Research in Zoology*; 1 year; \$9,300

J. B. Kitzmiller and Wilson N. Stewart; *Extension of Natural History Building to Provide Research Facilities for Zoology and Botany*; 1 year; \$15,600

A. V. Nalbandov; *Remodeling of Research Space in Animal Genetics Laboratory*; 1 year; \$14,800

A. H. Taub; *The Extension of the Digital Computer Laboratory Building*; 1 year; \$188,900

UNIVERSITY OF KANSAS, Lawrence; L. B. Srinath and K. H. Lenzen; *Construction of New Research Laboratories for the Department of Engineering Mechanics*; 1 year; \$70,000

UNIVERSITY OF MAINE, Orono; Bruce R. Poulton; *Construction of Graduate Nutrition Laboratory Facilities*; 1 year; \$7,000

UNIVERSITY OF MARYLAND, College Park; Raymond N. Doetsch and Michael J. Pelczar; *Renovation and Expansion of Research Laboratories in Microbiology*; 2 years; \$81,600

John S. Toll; *Expansion of Physics Research Laboratory Facilities*; 2 years; \$850,000

Charles E. White; *Renovation and Modification of Research Facilities in the Department of Chemistry*; 1 year; \$18,300

UNIVERSITY OF MICHIGAN, Ann Arbor; Leigh C. Anderson; *Renovation and Construction of Research Laboratories in the Department of Chemistry*; 1 year; \$22,900

Kenneth L. Jones; *Renovation and Construction of Research Laboratories in the Department of Botany*; 1 year; \$77,400

Kenneth L. Jones; *Renovation and Construction of Faculty and Graduate Research Laboratories in the Department of Botany*; 1 year; \$99,100

E. Lowell Kelly; *Remodeling and Extension of Research Laboratories in the Department of Psychology*; 1 year; \$60,000

Rensia Likert; *Construction of a Research Facility for the Institute for Social Research*; 3 years; \$200,000

UNIVERSITY OF MINNESOTA, Minneapolis; Perry L. Blackshear, Jr.; *Renovation of and Additions to Research Facilities in the Combustion Laboratory*; 1 year; \$13,200

Preston E. Cloud, Jr.; *Renovation and Extension of Geological Research Laboratories*; 1 year; \$87,000

Nelson T. Spratt; *Remodeling of Space for Research in the Department of Zoology*; 1 year; \$7,100

Frederick M. Swain; *Remodeling Research Facilities in the Micropaleontology Laboratory*; 1 year; \$4,100

H. E. Wright, Jr., Robert E. Sloan and William C. Phinney; *Remodeling Laboratories for Research in Earth Sciences*; 1 year; \$12,000

UNIVERSITY OF MISSOURI, Columbia; Wayne H. Decker; *Remodeling Laboratory Facilities for Research in Atmospheric Sciences*; 1 year; \$2,000

UNIVERSITY OF NEBRASKA, Lincoln; F. G. Teubner; *Renovation of Space for Research Facilities in Plant Physiology and Biochemistry*; 1 year; \$7,150

Edward J. Zimmerman; *Construction of a Physics Research Building*; 2 years; \$600,000

UNIVERSITY OF NEW HAMPSHIRE, Durham; Robert E. Lyle; *Renovation of Research Laboratories in the Department of Chemistry*; 1 year; \$25,450

UNIVERSITY OF NEW MEXICO, Albuquerque; James S. Findley; *Renovation and Research Facilities for a Laboratory in the Department of Biology*; 1 year; \$8,500

Marvin L. Riedesel; *Facilities for Physiological Research Laboratories*; 1 year; \$3,000

UNIVERSITY OF NORTH CAROLINA, Chapel Hill; H. F. Robinson, Raleigh; *Construction of New Biological Sciences Research Facilities*; 3 years; \$216,700

UNIVERSITY OF NORTH DAKOTA, Grand Forks; G. C. Wheeler; *Expansion of Research Facilities in the Biology Laboratories*; 1 year; \$25,000

UNIVERSITY OF OKLAHOMA, Norman; G. W. Murphy; *Renovation of Facilities for Chemistry Research*; 1 year; \$14,500

UNIVERSITY OF PENNSYLVANIA, Philadelphia; Frank Bradshaw Wood; *Extension of Research Facilities of the Astronomy Department in Physical Sciences Building*; 2½ years; \$160,000

Robert R. Bush; *Construction of a Psychological Research Laboratory*; 2 years; \$400,000

UNIVERSITY OF PITTSBURGH, Pittsburgh, Pa.; N. Lewis Buck; *Renovation of Research Facilities in the Mechanical Engineering Department*; 1 year; \$10,000

Peter Gray; *Adaptation and Renovation of Research Laboratories in the Natural Sciences*; 1 year; \$31,600

Ernst Knobll; *Remodeling Research Facilities for the Department of Physiology*; 2 years; \$72,000

T. W. Sze; *Completion of Research Facilities in the Electrical Engineering Department*; 1 year; \$5,350

UNIVERSITY OF RHODE ISLAND, Kingston; Niels Rorholm; *Construction of a Computer Laboratory*; 1 year; \$72,000

UNIVERSITY OF ROCHESTER, Rochester, N.Y.; J. Edward Hoffmeister; *Renovation of Facilities for Research in Petrology and Paleontology*; 1 year; \$5,550

E. Roy John; *Renovation and New Construction of Facilities for the Center for Brain Research*; 2 years; \$211,150

Edwin O. Wllg; *Renovation of Laboratories for Research in Organic Chemistry*; 1 year; \$14,500

UNIVERSITY OF SAN FRANCISCO, San Francisco, Calif.; Arthur Furst; *Research Facilities for Institute of Chemical Biology in New Science Center*; 2 years; \$50,000

UNIVERSITY OF SOUTH CAROLINA, Columbia; R. D. Edge; *Construction of New Physics Research Laboratory*; 1 year; \$21,000

J. T. Penney; *Laboratory Facilities for a New Life Sciences Building*; 1 year; \$15,200

UNIVERSITY OF SOUTHERN CALIFORNIA, Los Angeles; Milton C. Kloetzel; *Construction of New Research Facility for Chemistry Department*; 2 years; \$116,000

Anthony D. Lazzaro; *Remodeling of a Building for a Computer Center*; 1 year; \$42,300

UNIVERSITY OF TENNESSEE, Knoxville; Floyd W. Dunn, Memphis; *Remodeling Laboratory Facilities for Research in Biochemistry and Microbiology*; 1 year; \$8,000

UNIVERSITY OF TEXAS, Austin; W. W. Hagerly; *Construction of Research Laboratories in Engineering Materials-Science*; 2 years; \$200,000

B. B. Kinsey; *Construction of New Laboratories for Research in Nuclear Physics*; 2 years; \$300,000

Howard T. Odum, Port Aransas; *Research Facilities at the Institute of Marine Science*; 1 year; \$17,100

UNIVERSITY OF UTAH, Salt Lake City; Thomas J. Parmlley; *Graduate Facilities for Physics Department*; 1 year; \$62,000

UNIVERSITY OF VERMONT, Burlington; Clinton D. Cook; *Renovation of Chemistry Research Facilities*; 1 year; \$45,000

UNIVERSITY OF VIRGINIA, Charlottesville; James W. Cole, Jr.; *Construction of a New Building for Expansion of Research Facilities in Department of Chemistry*; 3 years; \$500,000

UNIVERSITY OF WASHINGTON, Seattle; Arthur Martin; *Construction of Facilities for Graduate Research in Biology in the New University of Washington Museum*; 1 year; \$8,100

Earl C. Roberts; *Construction of a Materials Engineering Laboratory*; 2 years; \$100,000

David R. M. Scott; *Construction of a New Forest Science Building*; 3 years; \$100,000

R. B. Walker; *Renovation of Laboratory Facilities for Research in Plant Physiology*; 1 year; \$53,700

UNIVERSITY OF WISCONSIN, Madison; W. J. Brogden; *Research Facilities in a New Psychology Building*; 2 years; \$350,000

W. R. Marshall, Jr., W. K. Neill, and W. S. Cottingham; *Construction of New Research*

*Facilities in College of Engineering; 2 years; \$300,000*

Harold R. Wolfe; *Construction of a Zoology Research Laboratory; 1 year; \$368,500*

UNIVERSITY OF WYOMING, Laramie; Victor A. Ryan; *Laboratory Facilities for Radiochemistry Research; 1 year; \$3,100*

UTAH STATE UNIVERSITY, Logan; Melvin C. Cannon; *Remodeling of Chemistry Department Research Facilities and Construction of an Adjoining Chemical Storage; 18 months; \$100,000*

T. W. Daniel; *Construction of Controlled Environment Facilities in the Department of Forest Management; 1 year; \$25,000*

Vaughn E. Hansen; *Construction of New Facilities in Water Research Laboratory; 2 years; \$200,000*

VANDERBILT UNIVERSITY, Nashville, Tenn.; Louis J. Bircher and Robert T. Lagemann; *Construction of a New Physical Science Center (Step I—Chemistry and Physics); 2 years; \$700,000*

Karl B. Schnelle, Jr.; *Renovation of Laboratory Facilities in the Chemical Engineering Department; 1 year; \$6,000*

VIRGINIA POLYTECHNIC INSTITUTE, Blacksburg; D. H. Pletta; *Construction of a Research Laboratory in Engineering Mechanics; 1 year; \$53,200*

WAKE FOREST COLLEGE, Winston-Salem, N.C.; Charles S. Black and Thomas J. Turner; *Adaptation and Equipping Facilities for Research in Chemistry and Physics; 1 year; \$20,000*

WASHINGTON STATE UNIVERSITY, Pullman; C. M. Stevens; *Laboratory Facilities for Research in the New Chemistry Building; 1 year; \$20,000*

WASHINGTON UNIVERSITY, St. Louis, Mo.; E. U. Condon; *Construction of the Arthur Holly Compton Research Laboratory of Physics; 2 years; \$300,000*

Viktor Hamburger; *Remodeling of Research Facilities in Zoology Department; 1 year; \$7,200*

WAYNE STATE UNIVERSITY, Detroit, Mich.; W. V. Mayer; *Fixed Equipment for Life Sciences Research Center; 1 year; \$30,000*

Calvin L. Stevens; *Laboratory Renovation for Nuclear Magnetic Resonance Research; 1 year; \$4,250*

WEST VIRGINIA UNIVERSITY, Morgantown; Walter R. Lewis; *Research Facilities for a New Biochemistry Laboratory; 2 years; \$13,000*

Charles D. Thomas; *Renovation of Research Facilities in the Department of Physics; 1 year; \$6,000*

WESTERN RESERVE UNIVERSITY, Cleveland, Ohio; William M. Heston; *Modernization of Graduate Biological Research Laboratory; 2 years; \$160,000*

W. M. Heston; *Construction of Chemical Research Laboratories, Science Center Phase I; 2 years; \$250,000*

YALE UNIVERSITY, New Haven, Conn.; Dirk Brouwer; *Rehabilitation of Laboratory Facilities at Yale Observatory Bethany Station; 1 year; \$26,100*

#### INSTITUTIONAL GRANTS FOR SCIENCE

AGRICULTURAL AND MECHANICAL COLLEGE OF TEXAS, College Station; \$16,866

ADELPHI COLLEGE, Garden City, N.Y.; \$6,140

AGRICULTURAL AND TECHNICAL COLLEGE OF NORTH CAROLINA, Greensboro; \$5,330

ALAMEDA COUNTY STATE COLLEGE, Hayward, Calif.; \$5,005

ALBION COLLEGE, Albion, Mich.; \$5,150

ALFRED UNIVERSITY, Alfred, N.Y.; \$5,825

AMERICAN UNIVERSITY, Washington, D.C.; \$6,040

AMHERST COLLEGE, Amherst, Mass.; \$9,975

ANTIOCH COLLEGE, Yellow Springs, Ohio; \$5,495

ARIZONA STATE UNIVERSITY, Tempe; \$8,120

ATLANTIC UNION COLLEGE, South Lancaster, Mass.; \$5,180

AUBURN UNIVERSITY, Auburn, Ala.; \$5,710

AUGSBURG COLLEGE AND THEOLOGICAL SEMINARY, Minneapolis, Minn.; \$3,200

AUSTIN COLLEGE, Sherman, Tex.; \$3,800

BAYLOR UNIVERSITY, Waco, Tex.; \$5,515

BEREA COLLEGE, Berea, Ky.; \$5,000

BOSTON COLLEGE, Chestnut Hill, Mass.; \$5,880

BOSTON UNIVERSITY, Boston, Mass.; \$12,970

BOWDOIN COLLEGE, Brunswick, Maine; \$5,255

BRANDEIS UNIVERSITY, Waltham, Mass.; \$33,740

BRIGHAM YOUNG UNIVERSITY, Provo, Utah; \$11,033

BROOKLYN COLLEGE, Brooklyn, N.Y.; \$6,935

BROWN UNIVERSITY, Providence, R.I.; \$33,323

BRYN MAWR COLLEGE, Bryn Mawr, Pa.; \$6,755

BUTLER UNIVERSITY, Indianapolis, Ind.; \$5,310

CALIFORNIA INSTITUTE OF TECHNOLOGY, Pasadena; \$46,267

CANISIUS COLLEGE, Buffalo, N.Y.; \$1,700

CARLETON COLLEGE, Northfield, Minn.; \$6,095

CARNEGIE INSTITUTE OF TECHNOLOGY, Pittsburgh, Pa.; \$22,173

CASE INSTITUTE OF TECHNOLOGY, Cleveland, Ohio; \$16,530

CATHOLIC UNIVERSITY, Washington, D.C.; \$9,440

CENTRAL STATE COLLEGE, Wilberforce, Ohio; \$1,700

COLLEGE OF CHARLESTON, Charleston, S.C.; \$4,400

CITY COLLEGE, New York, N.Y.; \$6,230

CLARK UNIVERSITY, Worcester, Mass.; \$5,801

CLEMSON COLLEGE, Clemson, S.C.; \$5,175

COB COLLEGE, Cedar Rapids, Iowa; \$5,150

COLBY COLLEGE, Waterville, Maine; \$5,120

COLGATE UNIVERSITY, Hamilton, N.Y.; \$5,980

COLORADO COLLEGE, Colorado Springs; \$5,400

COLORADO SCHOOL OF MINES, Golden; \$6,200

COLUMBIA UNIVERSITY, New York, N.Y.; \$50,000

COLORADO STATE UNIVERSITY, Fort Collins; \$15,225



CONNECTICUT COLLEGE, New London; \$2,500  
 CORNELL COLLEGE, Mount Vernon, Iowa; \$4,500  
 CORNELL UNIVERSITY, Ithaca, N.Y.; \$50,000  
 CREIGHTON UNIVERSITY, Omaha, Nebr.; \$2,000  
 DARTMOUTH COLLEGE, Hanover, N.H.; \$32,924  
 DENISON UNIVERSITY, Granville, Ohio; \$3,150  
 DEPAUL UNIVERSITY, Chicago, Ill.; \$5,505  
 DEPAUW UNIVERSITY, Greencastle, Ind.; \$1,200  
 DICKINSON COLLEGE, Carlisle, Pa.; \$5,570  
 DREXEL INSTITUTE OF TECHNOLOGY, Philadelphia, Pa.; \$5,025  
 DUKE UNIVERSITY, Durham, N.C.; \$32,415  
 DUMBARTON COLLEGE OF HOLY CROSS, Washington, D.C.; \$2,400  
 DUQUESNE UNIVERSITY, Pittsburgh, Pa.; \$6,253  
 EARLHAM COLLEGE, Richmond, Ind.; \$6,600  
 ELMIRA COLLEGE, Elmira, N.Y.; \$5,005  
 EMORY UNIVERSITY, Atlanta, Ga.; \$8,168  
 ENDOWMENT AND RESEARCH FOUNDATION AT MONTANA State College, Bozeman; \$6,695  
 EVANSVILLE COLLEGE, Evansville, Ind.; \$5,165  
 FLORIDA PRESBYTERIAN COLLEGE, St. Petersburg; \$5,385  
 FLORIDA STATE UNIVERSITY, Tallahassee; \$17,914  
 FORDHAM UNIVERSITY, New York, N.Y.; \$6,184  
 FRANKLIN AND MARSHALL COLLEGE, Lancaster, Pa.; \$7,090  
 FREDERIC BURK FOUNDATION FOR EDUCATION, San Francisco, Calif.; \$6,460  
 FURMAN UNIVERSITY, Greenville, S.C.; \$4,600  
 GALLAUDET COLLEGE, Washington, D.C.; \$5,200  
 GEORGE WASHINGTON UNIVERSITY, Washington, D.C.; \$8,840  
 GEORGETOWN UNIVERSITY, Washington, D.C.; \$6,580  
 GEORGIA INSTITUTE OF TECHNOLOGY, Atlanta; \$19,605  
 GOSHEN COLLEGE, Goshen, Ind.; \$2,900  
 GOUCHER COLLEGE, Baltimore, Md.; \$6,770  
 GRINNELL COLLEGE, Grinnell, Iowa; \$6,685  
 HARNEMANN MEDICAL COLLEGE AND HOSPITAL, Philadelphia, Pa.; \$7,151  
 HAMILTON COLLEGE, Clinton, N.Y.; \$5,065  
 HARVARD UNIVERSITY, Cambridge, Mass.; \$50,000  
 HARVEY MUDD COLLEGE, Claremont, Calif.; \$5,300  
 HAYVERFORD COLLEGE, Haverford, Pa.; \$6,460  
 HOLLINS COLLEGE, Hollins College, Va.; \$5,115  
 HOWARD UNIVERSITY, Washington, D.C.; \$8,229  
 IDAHO STATE COLLEGE, Pocatello; \$5,625  
 ILLINOIS INSTITUTE OF TECHNOLOGY, Chicago; \$12,355  
 ILLINOIS STATE NORMAL UNIVERSITY, Normal; \$5,100  
 ILLINOIS WESLEYAN UNIVERSITY, Bloomington; \$3,900  
 INDIANA UNIVERSITY, Bloomington; \$31,941  
 IOWA STATE UNIVERSITY, Ames; \$22,322  
 JEFFERSON MEDICAL COLLEGE OF PHILADELPHIA, Philadelphia, Pa.; \$4,000  
 JOHNS HOPKINS UNIVERSITY, Baltimore, Md.; \$48,331  
 KANSAS STATE TEACHERS COLLEGE, Emporia; \$5,705  
 KANSAS STATE UNIVERSITY, Manhattan; \$11,075  
 KENT STATE UNIVERSITY, Kent, Ohio; \$6,155  
 KENTUCKY RESEARCH FOUNDATION, Lexington; \$14,305  
 KENYON COLLEGE, Gambier, Ohio; \$5,065  
 LAFAYETTE COLLEGE, Easton, Pa.; \$5,178  
 LAMAR STATE COLLEGE OF TECHNOLOGY, Beaumont, Tex.; \$5,022  
 LAWRENCE COLLEGE, Appleton, Wis.; \$5,955  
 LEHIGH UNIVERSITY, Bethlehem, Pa.; \$11,900  
 LEMOYNE COLLEGE, Syracuse, N.Y.; \$1,800  
 LINCOLN UNIVERSITY, Jefferson City, Mo.; \$3,400  
 LINFIELD RESEARCH INSTITUTE, McMinnville, Ore.; \$6,160  
 LOMA LINDA UNIVERSITY, Loma Linda, Calif.; \$5,044  
 LONG BEACH STATE COLLEGE FOUNDATION, Long Beach, Calif.; \$6,880  
 LONGWOOD COLLEGE, Farmville, Va.; \$5,155  
 LOS ANGELES STATE COLLEGE, Los Angeles, Calif.; \$6,645  
 LOUISIANA STATE UNIVERSITY, Baton Rouge; \$13,676  
 LOYOLA UNIVERSITY, Chicago, Ill.; \$5,675  
 LOYOLA UNIVERSITY, New Orleans, La.; \$5,080  
 LUBBOCK CHRISTIAN COLLEGE, Lubbock, Tex.; \$5,010  
 MACALESTER COLLEGE, St. Paul, Minn.; \$3,825  
 MANCHESTER COLLEGE, North Manchester, Ind.; \$5,380  
 MANHATTAN COLLEGE, New York, N.Y.; \$6,340  
 MANKATO STATE COLLEGE FOUNDATION, INC., Mankato, Minn.; \$2,400  
 MARQUETTE UNIVERSITY, Milwaukee, Wis.; \$11,220  
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY, Cambridge; \$50,000  
 MEDICAL COLLEGE OF VIRGINIA, Richmond; \$5,550  
 MIAMI UNIVERSITY, Oxford, Ohio; \$5,920  
 MICHIGAN STATE UNIVERSITY, East Lansing; \$32,318  
 MIDDLEBURY COLLEGE, Middlebury, Vt.; \$5,100  
 MILLS COLLEGE, Oakland, Calif.; \$5,190  
 MISSISSIPPI STATE UNIVERSITY, State College; \$5,100  
 MONTANA STATE UNIVERSITY, Missoula; \$7,826

**MOUNT HOLYOKE COLLEGE**, South Hadley, Mass.; \$6,515  
**MUHLBERG COLLEGE**, Allentown, Pa.; \$3,200  
**NEBRASKA STATE TEACHERS COLLEGE**, Chadron; \$5,100  
**NEW MEXICO INSTITUTE OF MINING AND TECHNOLOGY**, Socorro; \$7,925  
**NEW MEXICO STATE UNIVERSITY**, University Park; \$7,470  
**COLLEGE OF NEW ROCHELLE**, New Rochelle, N.Y.; \$400  
**NEW YORK UNIVERSITY**, New York; \$42,027  
**NORFOLK COLLEGE OF WILLIAM AND MARY**, Norfolk, Va.; \$5,080  
**NORTH DAKOTA STATE UNIVERSITY**, Fargo; \$6,745  
**NORTH GEORGIA COLLEGE**, Dahlonega; \$5,175  
**NORTHEASTERN UNIVERSITY**, Boston, Mass.; \$8,225  
**NORTHERN ILLINOIS UNIVERSITY**, De Kalb; \$5,030  
**NORTHWEST NAZARENE COLLEGE**, Nampa, Idaho; \$5,935  
**NORTHWESTERN UNIVERSITY**, Evanston, Ill.; \$36,376  
**OBERLIN COLLEGE**, Oberlin, Ohio; \$6,495  
**OCCIDENTAL COLLEGE**, Los Angeles, Calif.; \$5,085  
**OHIO STATE UNIVERSITY**, Columbus; \$38,741  
**OHIO UNIVERSITY**, Athens; \$5,980  
**OHIO WESLEYAN UNIVERSITY**, Delaware; \$6,945  
**OKLAHOMA STATE UNIVERSITY**, Stillwater; \$11,565  
**ORANGE COUNTY STATE COLLEGE FOUNDATION**, Fullerton, Calif.; \$5,120  
**OREGON STATE UNIVERSITY**, CORVALLIS; \$33,708  
**PAN AMERICAN COLLEGE**, Edinburg, Tex.; \$5,050  
**PENNSYLVANIA STATE UNIVERSITY**, University Park; \$42,299  
**PERIFFER COLLEGE**, Misenheimer, N.C.; \$5,300  
**POLYTECHNIC INSTITUTE OF BROOKLYN**, Brooklyn, N.Y.; \$9,889  
**POMONA COLLEGE**, Claremont, Calif.; \$6,955  
**PORTLAND STATE COLLEGE**, Portland, Oreg.; \$5,670  
**PRINCETON UNIVERSITY**, Princeton, N.J.; \$50,000  
**PRINCIPIA COLLEGE**, Elmhurst, Ill.; \$5,363  
**PURDUE RESEARCH FOUNDATION**, Lafayette, Ind.; \$48,645  
**REED COLLEGE**, Portland, Oreg.; \$7,414  
**RENSSELAER POLYTECHNIC INSTITUTE**, Troy, N.Y.; \$19,215  
**RESEARCH FOUNDATION OF STATE UNIVERSITY OF NEW YORK**, Albany; \$18,171  
**ROCKEFELLER INSTITUTE**, New York, N.Y.; \$14,008  
**ROLLINS COLLEGE**, Winter Park, Fla.; \$5,250  
**ROOSEVELT UNIVERSITY**, Chicago, Ill.; \$5,225  
**ROSE POLYTECHNIC INSTITUTE**, Terre Haute, Ind.; \$5,600  
**RUTGERS, THE STATE UNIVERSITY**, New Brunswick, N.J.; \$27,710  
**SACRAMENTO STATE COLLEGE FOUNDATION**, Sacramento, Calif.; \$5,305  
**ST. BONAVENTURE UNIVERSITY**, St. Bonaventure, N.Y.; \$4,500  
**ST. JOHN'S UNIVERSITY**, Jamaica, N.Y.; \$5,350  
**ST. LAWRENCE UNIVERSITY**, Canton, N.Y.; \$5,400  
**ST. LOUIS UNIVERSITY**, St. Louis, Mo.; \$9,080  
**ST. MARY'S COLLEGE**, Winona, Minn.; \$4,000  
**ST. MARY'S COLLEGE OF CALIFORNIA**, St. Mary's College; \$4,500  
**ST. MARY'S UNIVERSITY OF SAN ANTONIO**, San Antonio, Tex.; \$5,250  
**ST. OLAF COLLEGE**, Northfield, Minn.; \$5,295  
**ST. PETER'S COLLEGE**, Jersey City, N.J.; \$3,400  
**SAN DIEGO STATE COLLEGE FOUNDATION**, San Diego, Calif.; \$9,345  
**SAN FERNANDO VALLEY STATE COLLEGE FOUNDATION**, Northridge, Calif.; \$6,280  
**SAN JOSE STATE COLLEGE FOUNDATION**, San Jose, Calif.; \$5,850  
**SEATTLE PACIFIC COLLEGE INSTITUTE FOR RESEARCH**, Seattle, Wash.; \$3,500  
**SMITH COLLEGE**, Northampton, Mass.; \$7,828  
**SOUTH DAKOTA STATE COLLEGE**, Brookings; \$5,755  
**SOUTHERN ILLINOIS UNIVERSITY**, Carbondale; \$13,208  
**SOUTHERN METHODIST UNIVERSITY**, Dallas, Tex.; \$6,980  
**SOUTHERN MISSIONARY COLLEGE**, Collegedale, Tenn.; \$6,250  
**STANFORD UNIVERSITY**, Stanford, Calif.; \$50,000  
**STATE UNIVERSITY OF IOWA**, Iowa City; \$14,740  
**STATE UNIVERSITY OF SOUTH DAKOTA**, Vermillion; \$6,180  
**STEPHEN F. AUSTIN STATE COLLEGE**, Nacogdoches, Tex.; \$5,125  
**STEVENS INSTITUTE OF TECHNOLOGY**, Hoboken, N.J.; \$7,923  
**SWARTHMORE COLLEGE**, Swarthmore, Pa.; \$6,945  
**SYRACUSE UNIVERSITY**, Syracuse, N.Y.; \$21,160  
**TEMPLE UNIVERSITY**, Philadelphia, Pa.; \$9,525  
**TEXAS CHRISTIAN UNIVERSITY**, Fort Worth; \$5,010  
**TEXAS SOUTHERN UNIVERSITY**, Houston; \$5,300  
**TEXAS TECHNOLOGICAL COLLEGE**, Lubbock; \$6,091  
**TEXAS WOMAN'S UNIVERSITY**, Denton; \$3,625  
**THIEL COLLEGE**, Greenville, Pa.; \$4,700  
**TRINITY COLLEGE**, Hartford, Conn.; \$5,020  
**TUFTS UNIVERSITY**, Medford, Mass.; \$10,270  
**TULANE UNIVERSITY**, New Orleans, La.; \$21,943  
**UNION COLLEGE & UNIVERSITY**, Schenectady, N.Y.; \$4,000

UNIVERSITY OF AKRON, Akron, Ohio; \$6,080  
 UNIVERSITY OF ALABAMA, University; \$6,255  
 UNIVERSITY OF ALASKA, College; \$24,492  
 UNIVERSITY OF ARIZONA, Tucson; \$38,141  
 UNIVERSITY OF ARKANSAS, Fayetteville; \$8,389  
 UNIVERSITY OF BUFFALO, Buffalo, N.Y.; \$11,040  
 UNIVERSITY OF CALIFORNIA, Berkeley; \$50,000  
 UNIVERSITY OF CALIFORNIA, Davis; \$23,080  
 UNIVERSITY OF CALIFORNIA, Los Angeles; \$50,000  
 UNIVERSITY OF CALIFORNIA, Riverside; \$14,335  
 UNIVERSITY OF CALIFORNIA, San Diego; \$50,000  
 UNIVERSITY OF CALIFORNIA, San Francisco; \$11,033  
 UNIVERSITY OF CALIFORNIA, Santa Barbara; \$7,893  
 UNIVERSITY OF CHICAGO, Chicago, Ill.; \$50,000  
 UNIVERSITY OF CINCINNATI, Cincinnati, Ohio; \$8,775  
 UNIVERSITY OF COLORADO, Boulder; \$27,826  
 UNIVERSITY OF CONNECTICUT, Storrs; \$9,108  
 UNIVERSITY OF DAYTON, Dayton, Ohio; \$5,740  
 UNIVERSITY OF DELAWARE, Newark; \$10,936  
 UNIVERSITY OF DENVER RESEARCH INSTITUTE, Denver, Colo.; \$6,755  
 UNIVERSITY OF FLORIDA, Gainesville; \$29,523  
 UNIVERSITY OF GEORGIA, Athens; \$17,020  
 UNIVERSITY OF HAWAII, Honolulu; \$15,190  
 UNIVERSITY OF HOUSTON, Houston, Tex.; \$9,333  
 UNIVERSITY OF IDAHO, Moscow; \$7,053  
 UNIVERSITY OF ILLINOIS, Urbana; \$50,000  
 UNIVERSITY OF KANSAS, Lawrence; \$27,822  
 UNIVERSITY OF KANSAS CITY, Kansas City, Mo.; \$5,140  
 UNIVERSITY OF LOUISVILLE, Louisville, Ky.; \$11,825  
 UNIVERSITY OF MAINE, Orono; \$6,520  
 UNIVERSITY OF MARYLAND, College Park; \$16,826  
 UNIVERSITY OF MASSACHUSETTS, Amherst; \$11,825  
 UNIVERSITY OF MIAMI, Coral Gables, Fla.; \$18,198  
 UNIVERSITY OF MICHIGAN, Ann Arbor; \$50,000  
 UNIVERSITY OF MINNESOTA, Minneapolis; \$50,000  
 UNIVERSITY OF MISSISSIPPI, University; \$6,255  
 UNIVERSITY OF MISSOURI, Columbia; \$19,254  
 UNIVERSITY OF NEBRASKA, Lincoln; \$14,364  
 UNIVERSITY OF NEVADA, Reno; \$8,655  
 UNIVERSITY OF NEW HAMPSHIRE, Durham; \$6,550  
 UNIVERSITY OF NEW MEXICO, Albuquerque; \$10,430  
 UNIVERSITY OF NORTH CAROLINA, Chapel Hill; \$18,093  
 UNIVERSITY OF NORTH CAROLINA, Raleigh; \$16,980  
 UNIVERSITY OF NORTH DAKOTA, Grand Forks; \$8,330  
 UNIVERSITY OF NOTRE DAME, Notre Dame, Ind.; \$17,000  
 UNIVERSITY OF OKLAHOMA RESEARCH INSTITUTE, Norman; \$23,148  
 UNIVERSITY OF OREGON, Eugene; \$30,910  
 UNIVERSITY OF THE PACIFIC, Stockton, Calif.; \$6,615  
 UNIVERSITY OF PENNSYLVANIA, Philadelphia; \$50,000  
 UNIVERSITY OF PITTSBURG, Pittsburgh, Pa.; \$26,980  
 UNIVERSITY OF PORTLAND, Portland, Oreg.; \$3,100  
 UNIVERSITY OF PUERTO RICO, Rio Piedras; \$5,130  
 UNIVERSITY OF PUGET SOUND RESEARCH INSTITUTE, Tacoma, Wash.; \$5,040  
 UNIVERSITY OF RHODE ISLAND, Kingston; \$9,730  
 UNIVERSITY OF ROCHESTER, Rochester, N.Y.; \$22,848  
 UNIVERSITY OF SAN FRANCISCO, San Francisco, Calif.; \$5,680  
 UNIVERSITY OF SOUTH CAROLINA, Columbia; \$8,100  
 UNIVERSITY OF SOUTH FLORIDA, Tampa; \$5,160  
 UNIVERSITY OF SOUTHERN CALIFORNIA, Los Angeles; \$30,513  
 UNIVERSITY OF SOUTHWESTERN LOUISIANA, Lafayette; \$5,700  
 UNIVERSITY OF TENNESSEE, Knoxville; \$16,520  
 UNIVERSITY OF TEXAS, Austin; \$49,742  
 UNIVERSITY OF TULSA, Tulsa, Okla.; \$800  
 UNIVERSITY OF UTAH, Salt Lake City; \$19,000  
 UNIVERSITY OF VERMONT, Burlington; \$8,205  
 UNIVERSITY OF VIRGINIA, Charlottesville; \$10,894  
 UNIVERSITY OF WASHINGTON, Seattle; \$50,000  
 UNIVERSITY OF WICHITA, Wichita, Kans.; \$5,271  
 UNIVERSITY OF WISCONSIN, Madison; \$50,000  
 UNIVERSITY OF WYOMING, Laramie; \$5,080  
 UTAH STATE UNIVERSITY, Logan; \$7,455  
 VALPARAISO UNIVERSITY, Valparaiso, Ind.; \$5,510  
 VANDERBILT UNIVERSITY, Nashville, Tenn.; \$16,395  
 VASSAR COLLEGE, Poughkeepsie, N.Y.; \$5,485  
 VILLANOVA UNIVERSITY, Villanova, Pa.; \$5,705  
 VIRGINIA POLYTECHNIC INSTITUTE, Blacksburg; \$8,925  
 WABASH COLLEGE, Crawfordsville, Ind.; \$5,135  
 WARNER PACIFIC COLLEGE, Portland, Oreg.; \$5,110  
 WASHINGTON & LEE UNIVERSITY, Lexington, Va.; \$5,135  
 WASHINGTON STATE UNIVERSITY, Pullman; \$18,011

WASHINGTON UNIVERSITY, St. Louis, Mo.; \$28,983

WAYNE STATE UNIVERSITY, Detroit, Mich.; \$15,134

WELLESLEY COLLEGE, Wellesley, Mass.; \$2,700

WELLS COLLEGE, Aurora, N.Y.; \$2,600

WESLEYAN UNIVERSITY, Middletown, Conn.; \$8,885

WESTERN ILLINOIS UNIVERSITY, Macomb; \$4,700

WESTERN RESERVE UNIVERSITY, Cleveland, Ohio; \$20,576

WESTERN WASHINGTON STATE COLLEGE, Bellingham; \$5,100

WEST VIRGINIA UNIVERSITY, Morgantown; \$9,717

WHITMAN COLLEGE, Walla Walla, Wash.; \$4,966

WHITWORTH COLLEGE, Spokane, Wash.; \$5,855

WILKES COLLEGE, Wilkes-Barre, Pa.; \$5,063

WILLIAMETTE UNIVERSITY, Salem, Oreg.; \$5,100

COLLEGE OF WILLIAM & MARY, Williamsburg, Va.; \$5,815

WILLIAM MARSH RICE UNIVERSITY, Houston, Tex.; \$12,454

WILLIAMS COLLEGE, Williamstown, Mass.; \$5,460

WILSON COLLEGE, Chambersburg, Pa.; \$5,360

WINONA STATE COLLEGE, Winona, Minn.; \$4,950

WINTHROP COLLEGE, Rock Hill, S.S.; \$1,000

WITTENBERG UNIVERSITY, Springfield, Ohio; \$5,025

WOFFORD COLLEGE, Spartanburg, S.C.; \$4,300

WOMAN'S MEDICAL COLLEGE OF PENNSYLVANIA, Philadelphia; \$5,060

WORCESTER POLYTECHNIC INSTITUTE, Worcester, Mass.; \$5,140

YALE UNIVERSITY, New Haven, Conn.; \$50,000

YESHIVA UNIVERSITY, New York, N.Y.; \$19,308

## INTERNATIONAL SCIENCE ACTIVITIES

AFRICAN-AMERICAN INSTITUTE, New York, N.Y.; Donald W. Wyatt; *Travel of Foreign Participants in Summer Institutes, 1962*; 5 months; \$7,770

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, Washington, D.C.; Hans Nussbaum; *Administration of Panels in Assistance to the U.S.-Japan Committee on Scientific Cooperation*; 1 year; \$25,000

Dael Wolfe; *A Compilation of Arid Lands Research Report, and U.S. Participation in the UNESCO Conference on Arid Lands in Latin America*; 18 months; \$40,000

AMERICAN FRIENDS OF THE MIDDLE EAST, Inc., Washington, D.C.; Virgil C. Crippin; *Travel of Foreign Participants in Summer Institutes, 1962*; 5 months; \$1,600

ASIA FOUNDATION, San Francisco, Calif.; Edith Collier; *Travel of Foreign Participants in Summer Institutes, 1962*; 5 months; \$18,250

CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, Paris, France; J. Coulomb; *Participation of U.S. Scientists in C.N.R.S.-Sponsored Scientific Workshops*; 1 year; \$20,000

COMISION NACIONAL DE ENERGIA ATOMICA, Buenos Aires, Argentina; Jorge A. Sabato; *Study of the Influence of the Substructures of Polygonization Occurring in the Gamma-Beta Transformation on the Creep Resistance of Uranium-Chromium Alloys*; 1 year; \$12,000

LA PLATA NATIONAL UNIVERSITY, La Plata, Argentina; Rafael Grinfeld; *Spectroscopy of Light Molecules*; 2 years; \$36,300

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL, Washington, D.C.; Wallace W. Atwood, Jr.; *Exchange of Scientists Between the U.S. and U.S.S.R.*; \$45,675

W. M. Todd; *Interim Support of the Office of the Foreign Secretary*; 3 months; \$23,800

ORGANIZATION OF AMERICAN STATES, Washington, D.C.; Jesse D. Perkinson, Jr.; *Regional Seminar for Latin America on Educational Problems of Nuclear Energy*; 6 months; \$7,000

PAN AMERICAN UNION, Washington, D.C.; Jesse D. Perkinson, Jr.; *Travel of Foreign Participants in Summer Institutes, 1961*; 5 months; \$5,000

Jesse D. Perkinson, Jr.; *Inter-American Program for Improvement of Science Education*; 1 year; \$32,500

STANFORD UNIVERSITY, Stanford, Calif.; O. Cutler Shepard; *Point Defects in Crystalline Solids and Their Role in Phenomena Involving Atomic Mobility*; 2 years; \$95,200

U.S.-SOUTH AFRICA LEADER EXCHANGE PROGRAM, Inc., Philadelphia, Pa.; Frank S. Loescher; *Travel of Foreign Participants in Summer Institutes, 1962*; 5 months; \$3,270

UNIVERSIDAD NACIONAL AUTONOMA DE MEXICO, Mexico, D. F. Mexico; Marcos Moshinsky; *Participation of United States Scientists in the Latin American School of Physics*; 6 months; \$7,500

UNIVERSITY OF CALIFORNIA, Berkeley, Calif.; Robert L. Thornton, Livermore; *Theory of Elementary Particles*; 9 months; \$4,400

## SCIENCE EDUCATIONAL DEVELOPMENT GRANTS

HAROLD BLOOM; Colorado School of Mines; 10 weeks; \$1,375

SYDNEY S. BREESE, JR.; Plum Island Animal Disease Laboratory; 20 weeks; \$1,862

WILLIAM B. COOK; 26 weeks; \$2,557

BERNARD D. CULLITY; University of Notre Dame; 26 weeks; \$2,484

FRED W. DECKER; Oregon State University; 12 weeks; \$1,734

JOHN G. FOX; Carnegie Institute of Technology; 26 weeks; \$2,385

SAMUEL B. GUSS; Pennsylvania State University; 23 weeks; \$2,984

WILLIAM F. HORNYAK; University of Maryland; 26 weeks; \$2,447

DANIEL J. JONES; University of Utah; 18 weeks; \$1,759

ARNULF MUAN; Pennsylvania State University; 26 weeks; \$2,486

WILLIAM P. STEPHEN; Oregon State University; 12 weeks; \$1,738  
LAURENCE E. STRONG; Earlham College; 26 weeks; \$2,898  
CARL R. WISCHMEYER; William Marsh Rice University; 8 weeks; \$1,299  
CARL R. ZIMMER; Arizona State University; 15 weeks; \$1,719

#### GRANTS TO ATTEND NATO ADVANCED INSTITUTES

CLARENCE G. GOLUEKE; University of California; \$875  
ROBERT M. KOCH; University of Nebraska; \$725  
WILLIAM J. OSWALD; University of California; \$875  
ROBERT M. PORTER; New Mexico State University; \$410  
ALLAN R. ROBINSON; Harvard University; \$450  
FELIX M. H. VILLARS; Massachusetts Institute of Technology; \$470

#### SCIENCE EXHIBITS

UNIVERSITY OF WASHINGTON, Seattle; Otto N. Larsen; *An Assessment of the United States Science Exhibit, Century-21 Exposition*; 18 months; \$75,060

#### SCIENCE RESOURCES PLANNING

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL, Washington, D.C.; G. B. Kistiakowsky; *Special Studies of Research Needs*; 6 months; \$25,025

#### DISSEMINATION OF SCIENTIFIC INFORMATION

##### DOCUMENTATION RESEARCH

AMERICAN INSTITUTE OF BIOLOGICAL SCIENCES, Washington, D.C.; Charles W. Shilling; *Study of Communication Channels in Biology*; 9 months; \$25,300

ASSOCIATION OF SPECIAL LIBRARIES AND INFORMATION BUREAUX, London, England; Cyril W. Cleverdon, Cranfield; *In Investigation into the Performance Characteristics of Indexing Techniques*; 2 years; \$81,000

CAMBRIDGE LANGUAGE RESEARCH UNIT, Cambridge, England; Roger M. Needham; *New Techniques for Classification: The Theory of Clumps*; 1 year; \$17,500

ENGINEERS JOINT COUNCIL, New York, N.Y.; L. K. Wheelock; *Study of Engineering Terminology and Relationships Among Engineering Terms*; 1 year; \$43,955

HARVARD UNIVERSITY, Cambridge, Mass.; Anthony G. Oettinger; *Research on Automatic Translation and Mathematical Linguistics*; 1 year; \$160,160

LEHIGH UNIVERSITY, Bethlehem, Pa.; Donald J. Hillman; *Study of Theories and Models of Information Storage and Retrieval*; 2 years; \$6,600

MASSACHUSETTS INSTITUTE OF TECHNOLOGY, Cambridge; Victor H. Yngve; *Basic Research on Language Problems in Mechanical Translation*; 18 months; \$225,000

William N. Locke and Myer M. Kessler,

Lexington; *Technical Information System*; 1 year; \$46,000

NATIONAL BIOCHEMICAL RESEARCH FOUNDATION, New York, N.Y.; Robert S. Ledley; *New Coordinate Indexing Method for Bound Book Form Bibliographies*; 6 months; \$6,218

NATIONAL BIOMEDICAL RESEARCH FOUNDATION, Silver Spring, Md.; Robert S. Ledley; *New Coordinate Indexing Method for Bound Book Form Bibliographies*; 8 months; \$600

OHIO STATE UNIVERSITY RESEARCH FOUNDATION, Columbus; William S-Y Wang; *Research on Syntactic Analysis*; 2 years; \$40,000

U.S. DEPARTMENT OF COMMERCE, NATIONAL BUREAU OF STANDARDS, Washington, D.C.; Samuel N. Alexander; *Research Information Center and Advisory Service on Information Processing*; 9 months; \$75,000

Robert D. Elbourn; *Research in Picture Processing Operations*; 1 year; \$73,000

UNIVERSITY OF PENNSYLVANIA, Philadelphia; Zellig S. Harris; *Continued Support of Research on Linguistic Transformations for Information Retrieval*; 2 years; \$346,000

UNIVERSITY OF TEXAS, Austin; Winfred P. Lehmann; *Development of a Linguistic Computer System*; 1 year; \$95,000

UNIVERSITY OF WASHINGTON, Seattle; Erwin Reifer; *A Chinese-English Mechanical Translation Project for Research in the Lexicographical and Structural Problems of the Chinese Language*; 4 months; \$1,000

WESTERN RESERVE UNIVERSITY, Cleveland, Ohio; Allen Kent; *Test Program for Evaluating Procedures for the Exploitation of Literature of Interest to Metallurgists*; 6 months; \$10,169

Allen Kent and Jessica Melton; *Automatic Processing of Metallurgical Abstracts for the Purpose of Information Retrieval*; 1 year; \$54,000

##### FOREIGN SCIENCE INFORMATION

ACTA METALLURGICA, Schneectady, N.Y.; John H. Hollomon; *An English Edition of the Russian Abstract Journal-Metallurgy*; 1 year; \$17,224

John H. Hollomon; *The Translation and Publication of the 1959 Issues of The Physics of Metals and Metallography, and the Journal of Abstracts-Metallurgy, Parts A and B*; 1 year; \$13,850

John H. Hollomon; *Translation and Publication of the 1961 Issues of Two Russian Journals: The Physics of Metals and Metallography, and Abstracts-Metallurgy, Part A*; 1 year; \$51,356

John H. Hollomon; *Translation and Publication of the 1961 Issues of Three Russian Journals: Metallurgy, MITOM, and Ogneupory*; 1 year; \$47,600

John H. Hollomon; *Translation and Publication of the 1960 Issues of the Russian Journal of Abstracts-Metallurgy, Part B*; 1 year; \$47,667

John H. Hollomon; *Translation and Publication of the 1961 Issues of the Russian Journal of Abstracts-Metallurgy, Part B*; 1 year; \$47,767

AMERICAN CHEMICAL SOCIETY, Washington, D.C.; Richard H. Belknap; *A Survey to Determine Need for English Translations of Russian Scientific Journals*; 1 year; \$1,914

AMERICAN COUNCIL OF LEARNED SOCIETIES, New York, N.Y.; Gordon B. Turner; *ACLS-OTS Translations Distribution Program*; 1 year; \$19,636

AMERICAN GEOGRAPHICAL SOCIETY, New York, N.Y.; Charles B. Hitchcock; *Translation and Publication of Soviet Geography: Review and Translation, for Calendar Year 1962*; 1 year; \$22,478

AMERICAN GEOGRAPHICAL UNION, Washington, D.C.; Waldo E. Smith; *Acquisition and Evaluation of Geophysics Material from Iron Curtain Countries in Asia and Europe*; 1 year; \$24,680

Waldo E. Smith; *Translation and Publication of the 1961 Issues of the Russian Journal, Geodesy and Cartography*; 1 year; \$24,680

Waldo E. Smith; *Translation and Publication of the Trudy of The Hydrophysical Institute of the Sea and The Marine Sciences Articles in Doklady of The Academy of Sciences of the USSR*; 1 year; \$16,000

Waldo E. Smith; *Translation and Publication of The 1962 Issues of Izvestiya, Geophysios Series*; 1 year; \$53,670

WALDO E. SMITH; *Translation and Publication of the 1962 Issues of the Russian Journal, Geodesy and Cartography*; 1 year; \$14,450

Waldo E. Smith; *Translation and Publication of the 1961, and One-half of the 1962 Issues of the Russian Journal, Geomagnetism and Aeronomy*; 18 months; \$32,880

Waldo E. Smith; *Translation and Publication of an English Edition of Selected Soviet Hydrologic Papers*; 1 year; \$19,235

AMERICAN INSTITUTE OF BIOLOGICAL SCIENCES, Washington, D.C.; Francis C. Harwood; *Translation and Publication of the 1961 Issues of the Russian Journal, Entomological Review*; 1 year; \$27,187

Francis C. Harwood; *Translation and Publication of the 1961 Issues of Four Russian Journals: Doklady-Biological Sciences; Doklady-Botanical Sciences; Microbiology; and Plant Physiology*; 1 year; \$106,699

Francis C. Harwood; *Translation and Publication of the 1961 Issues of the Russian Journal, Doklady—Biochemistry Section*; 1 year; \$12,810

Francis C. Harwood; *Translation and Publication of the 1961 Issues of the Russian Journal, Soviet Soil Sciences and the Inclusion of Doklady—Soil Sciences Section*; 1 year; \$53,648

Charles W. Shilling; *Translation and Publication of Three Russian Biological Monographs*; 1 year; \$24,248

AMERICAN INSTITUTE OF CHEMICAL ENGINEERS, New York, N.Y.; F. J. Van Antwerpen; *Translation and Publication of an International Chemical Engineering Quarterly Journal*; 1 year; \$56,622

AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS, New York, N.Y.; N. S. Hibshman; *Translation and Publication of the Remaining 1961 Issues of Three Russian Journals: Radio Engineering; Radio Engineering and Electronics; and Telecommunications*; 9 months; \$86,250

AMERICAN INSTITUTE OF PHYSICS, New York, N.Y.; Elmer Hutchisson; *Dissemination of the Japanese Journal of Applied Physics in the United States*; 2 years; \$14,950

Wallace Waterfall; *Translation and Publication of the 1961 Issues of Eight Russian Journals: Acoustics; Astronomy; Technical Physics; Solid State Physics; JETP; Uspekhi; Crystallography; and Physics Section; Doklady*; 1 year; \$196,550

AMERICAN MATHEMATICAL SOCIETY, Providence, R.I.; Gordon L. Walker; *Provide Russian and Related Mathematical Literature for Abstracting and Research Libraries*; 1 year; \$28,647

Gordon L. Walker; *Translation and Publication of the 1960 and 1961 Issues of the Chinese Journal, Acta Mathematica Sinica*; 1 year; \$29,270

Gordon L. Walker; *Translation and Publication of the 1961 Issues of the Russian Journal, Soviet Mathematics—Doklady*; 1 year; \$37,746

Gordon L. Walker; *Program for Selected Translations of Mathematical Research Articles from the Russian and Other Languages*; 1 year; \$54,105

AMERICAN PHILOSOPHICAL ASSOCIATION, Princeton, N.J.; Rose Rand; *Translation and Critique of Selected Works of Leading Polish Logicians*; 1 year; \$8,100

AMERICAN ROCKET SOCIETY INC., New York, N.Y.; James J. Harford; *Selected Translations of Russian Material in The Field of Astronautics*; 1 year; \$56,770

AMERICAN SOCIETY OF MECHANICAL ENGINEERS, New York, N.Y.; Jos. Sansone; *Translation and Publication of Volume 26, 1962 Journal of Applied Mathematics and Mechanics (PMM)*; 1 year; \$30,800

ARCTIC INSTITUTE OF NORTH AMERICA, Washington, D.C.; Henry N. Michael, Temple University; *Translation and Publication of Anthropology of the North: Translations from Russian Sources*; 1 year; \$37,612

BERNICE P. BISHOP MUSEUM, Honolulu, Hawaii; Edwin H. Bryan, Jr.; *Pacific Science Information Center*; 1 year; \$17,405

BROWN UNIVERSITY, Providence, R.I.; Robert T. Beyer; *Critical Study and Review of Current Work in Ultrasound and Its Physical Applications in Soviet, Satellite, and Western European Laboratories*; 1 year; \$6,100

CENTER FOR APPLIED LINGUISTICS OF THE MODERN LANGUAGE ASSOCIATION, Washington, D.C.; Harvey Sobelman; *Investigation of the Nature and Problems of Information Services in Linguistics and Related Fields*; 1 year; \$8,886

COLUMBIA UNIVERSITY, New York, N.Y.; Vladimir Slamecka; *Study of the Resources of Scientific Information in Czechoslovakia and the German Democratic Republic*; 3 months; \$3,624

ENGINEERS JOINT COUNCIL, New York, N.Y.; L. K. Wheelock; *Preparation and Publication of a Pilot Study on the Availability of Foreign Engineering Literature in the United States*; 1 year; \$38,050

GEOCHEMICAL SOCIETY, La Jolla, Calif.; Earl Ingerson, University of Texas; *Translation and Publication of the 1960 Issues of the Russian Journal, Geochemistry*; 1 year; \$2,250

Earl Ingerson, University of Texas; *Continued Support of an English Edition of the Russian Journal, Geochemistry*; 18 months; \$2,470

Earl Ingerson, University of Texas; *Translation and Publication of the 1961 Issues of the Russian Journal, Geochemistry*; 1 year; \$28,000

INDIANA UNIVERSITY FOUNDATION, Bloomington; Thomas A. Sebeok; *Preparation and Publication of a Volume on Current Trends in Russian and East European Linguistics*; 2 years; \$14,950

Thomas A. Sebeok; *Standing Committee on the Dissemination of Russian and East European Linguistic Literature*; 1 year; \$1,380

INSTRUMENT SOCIETY OF AMERICA, Pittsburgh, Pa.; William H. Kushnick; *Translation and Publication of the 1961 Issues of Russian Journals: Automation and Remote Control*; Industrial Laboratory; Instruments and Experimental Techniques; and Measurement Techniques; 1 year; \$127,500

William H. Kushnick; *Translation and Publication of the 1962 Issues of Four Russian Journals: Automation and Remote Control*; Industrial Laboratory; Instruments and Experimental Techniques; and Measurement Techniques; 1 year; \$112,775

JAPAN DOCUMENTATION SOCIETY, Tokyo, Japan; Haruo Ootuka; *Revision and Updating of the Kerr Report "Science Information Services in Japan"*; 59 weeks; \$2,101

LEHIGH UNIVERSITY, Bethlehem, Pa.; Josef Brozek; *Appraisal of Contemporary Russian and East European Information in Psychology and Related Areas*; 3 years; \$29,875

MASSACHUSETTS INSTITUTE OF TECHNOLOGY, Cambridge; William N. Locke; *Acquisitions and Servicing of Current Communist Chinese Serials*; 1 year; \$23,425

MIDWEST INTER-LIBRARY CENTER, Chicago, Ill.; Gordon R. Williams; *Operation of the Scientific Journals Center*; 1 year; \$907

Gordon R. Williams; *Partial Support of Operation of the Scientific Journals Center*; 8 months; \$44,303

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL, Washington, D.C.; A. Establier; *Expansion and Improvement of Directorates of Scientific Institutions and Scientists in Latin America*; 2 years; \$27,014

Lawrence Krader, American University; *Preparation and Publication of a New Edition of the International Directory of Anthropologists*; 15 months; \$20,270

Robert C. Stephenson; *Translation and Publication of the 1961 Issues of Two Russian Journals: Doklady and Izvestiya—Geology Series*; 1 year; \$69,454

Robert C. Stephenson; *Translation and Publication of the International Geology Review, Volume IV, 1962, and Soviet Geology 1961 Volume Year*; 1 year; \$75,176

NATIONAL DIET LIBRARY OF JAPAN, Tokyo; Takao Suzuki; *Translation and Printing of the Japanese Periodicals Index, Natural Sciences Section*; 1 year; \$21,116

OPTICAL SOCIETY OF AMERICA, Washington, D.C.; Mary E. Wurga; *Translation and Editing of the 1962 Issues of the Russian Journal, Optics and Spectroscopy*; 1 year; \$17,250

PAN AMERICAN UNION, Washington, D.C.; Jesse D. Perkinson, Jr.; *Comprehensive Study of the Status of the Publication of*

*Scientific and Technical Journals in Latin America*; 1 year; \$15,520

SOCIETY FOR INDUSTRIAL AND APPLIED MATHEMATICS, Philadelphia, Pa.; I. E. Block; *Translation and Publication of the 1961 Issues of the Russian Journal, Theory of Probability and Its Applications*; 1 year; \$2,589

SYRACUSE UNIVERSITY RESEARCH INSTITUTE, Syracuse, N.Y.; Warren B. Walsh; *User Study of Translated Soviet Scientific Journals*; 1 year; \$19,320

UNION OF INTERNATIONAL ASSOCIATIONS, Brussels, Belgium; G. P. Speckaert; *Compilation and Publications of (1) A Monthly Current List and (2) An Annual Bibliography of International Conference Proceedings*; 1 year; \$9,825

U.S. DEPARTMENT OF AGRICULTURE LIBRARY, Washington, D.C.; Foster E. Mohrhardt; *Study of the Availability and Utilization of Oriental Scientific Publications in the USDA Library*; 1 year; \$26,700

U.S. DEPARTMENT OF COMMERCE, BUREAU OF THE CENSUS, Washington, D.C.; Frederick A. Leedy; *Bibliography of Social Science Periodicals and Monographs Published in Selected Difficult Languages*; \$2,407

Frederick A. Leedy; *Preparation and Publication of a Bibliographic Survey of Social Science Literature Published in Communist Bloo and Other Difficult Languages*; 1 year; \$52,000

U.S. DEPARTMENT OF COMMERCE, OFFICE OF TECHNICAL SERVICES, Washington, D.C.; John C. Green; *Support of The Translation Center in Delft*; \$9,500

John C. Green; *Operational Phase of the P.L. 480 Translation Program*; 1 year; \$33,625

U.S. DEPARTMENT OF COMMERCE, WEATHER BUREAU, Washington, D.C.; F. W. Reichelderfer; *Editorial Services for AGU's Project of Translating Soviet Hydrologic Literature*; 1 year; \$5,100

U.S. LIBRARY OF CONGRESS, Washington, D.C.; Henry J. Dubester; *User and Value Study of the Monthly Index of Russian Accessions*; 6 months; \$21,560

Robert H. Land; *Preparation and Publication of a Guide to International Information Facilities in Science, Technology, Medicine, and Agriculture*; 1 year; \$16,153

Robert H. Land; *Publication of Part I of A Monthly World List of Future International Meetings*; 1 year; \$18,500

John Sherrod; *Preparation and Publication of an Analytical Survey and Bibliography of Directories in the Sciences Throughout the World*; 1 year; \$29,189

Rudolph Smits; *Publication of the Monthly Index of Russian Accessions*; 1 year; \$66,000

Rudolph Smits; *Publication of the Monthly Index of Russian Accessions*; 1 year; \$199,100

UNIVERSITY OF CHICAGO, Chicago Ill.; Bert F. Hoselitz; *Study of Pertinent Literature on Japanese and Chinese Economic History During the Last 250 Years*; 1 year; \$9,982

UNIVERSITY OF CHICAGO PRESS, Chicago, Ill.; Anders Richter; *Translation of the M. G. Levin and L. P. Potapov Book, Narody Sibiri*; 1 year; \$9,300

UNIVERSITY OF HOUSTON, Houston, Tex.; Royal E. Collins; *Evaluation and Compilation of a Bibliography of Oriental Literature on Filtration and Fluid Flow Through Porous Materials*; 6 months; \$7,400

UNIVERSITY OF WISCONSIN, Madison; G. P. Woolard; *Translation Program of Polar and Geophysical Literature and Publication of the Soviet Antarctic Information Bulletin in English*; 1 year; \$54,281

## GENERAL

ASSOCIATION OF RESEARCH LIBRARIES, Princeton, N.J.; William S. Dix; *Partial Support for the Establishment of a Full-Time Secretariat*; 2 years; \$58,350

GEORGIA INSTITUTE OF TECHNOLOGY, Atlanta; Dorothy M. Crosland; *Programs for Training Personnel for Scientific and Technical Libraries*; 6 months; \$28,348

UNIVERSITY OF NORTH CAROLINA, Chapel Hill; Jerrold Orne; *Microfilming of Agricultural and Manufacturing Census Records of Fifteen Southern States for the Years 1850, 1860, 1870, and 1880*; 2 years; \$15,677

WEST VIRGINIA UNIVERSITY, Morgantown; Michael M. Reynolds; *Investigation of the Potential Use of the Resources of a Large Academic Library by the Smaller Academic Libraries and the Libraries of Industrial Organizations Within the Distinct Region*; 1 year; \$5,060

## RESEARCH DATA AND INFORMATION

AMERICAN SOCIETY FOR METALS, Metals Park, Ohio; Robert D. Freeman; *Partial Support of the Information Searching Service of the American Society for Metals*; 3 months; \$35,900

CARNEGIE LIBRARY OF PITTSBURGH, Pittsburgh, Pa.; Ralph Munn; *Establishment and Operation of a Regional Reference Center for Unclassified U.S. Government Scientific and Technical Reports*; 1 year; \$12,635

Ralph Munn; *Establishment and Operation of a Regional Reference Center for Unclassified U.S. Government Scientific and Technical Reports*; \$1,895

COLUMBIA UNIVERSITY, New York, N.Y.; Richard H. Logsdon; *Establishment and Operation of a Regional Reference Center for Unclassified U.S. Government Scientific and Technical Reports*; 1 year; \$17,334

ENGINEERING SOCIETIES LIBRARY, New York, N.Y.; Stephen J. Kline; *An Experimental Film Service on Flow Visualization Research Data*; 5 years; \$9,700

JOHN CRERAR LIBRARY, Chicago, Ill.; Herman H. Henkle; *Establishment and Operation of a Regional Reference Center for Unclassified U. S. Government Scientific and Technical Reports*; 1 year; \$11,671

LINDA HALL LIBRARY, Kansas City, Mo.; Joseph C. Shipman; *Establishment and Operation of a Regional Reference Center for Unclassified U.S. Government Scientific and Technical Reports*; 1 year; \$6,400

MASSACHUSETTS INSTITUTE OF TECHNOLOGY, Cambridge; William N. Locke; *Establishment and Operation of a Regional Reference Center for Unclassified U.S. Government Scientific and Technical Reports*; 1 year; \$18,541

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL, Washington, D.C.; Charles H. Stauffer, St. Lawrence University; *The Compilation and Systematization of Information on Chemical Kinetics*; 2 years; \$4,895

Guy Waddington; *The Office of Critical Tables*; 2 years; \$205,000

SOUTHERN METHODIST UNIVERSITY, Dallas, Tex.; Robert M. Trent; *Establishment and Operation of a Regional Reference Center for Unclassified U.S. Government Scientific and Technical Reports*; 1 year; \$13,793

U.S. DEPARTMENT OF COMMERCE, OFFICE OF TECHNICAL SERVICES, Washington, D.C.; John C. Green; *Key Word Index to U.S. Government Technical Reports*; 1 year; \$64,600

U.S. LIBRARY OF CONGRESS, Washington, D.C.; L. Quincy Mumford; *Regional Reference Center for Unclassified U.S. Government Scientific and Technical Reports*; 1 year; \$1,000

U.S. SMITHSONIAN INSTITUTION, Washington, D.C.; Monroe E. Freeman; *Partial Support for the Annual Operating Expenses of the Science Information Exchange*; 1 year; \$125,000

UNIVERSITY OF CALIFORNIA, Berkeley; Donald Coney; *Establishment and Operation of a Regional Reference Center for Unclassified U.S. Government Scientific and Technical Reports*; 1 year; \$11,115

Robert Vosper, Los Angeles; *Establishment and Operation of a Regional Reference Center for Unclassified U.S. Government Scientific and Technical Reports*; 1 year; \$17,741

UNIVERSITY OF COLORADO, Boulder; Ralph E. Ellsworth; *Establishment and Operation of a Regional Reference Center for Unclassified U.S. Government Scientific and Technical Reports*; 1 year; \$17,015

UNIVERSITY OF WASHINGTON, Seattle; Marlon A. Mliczewski; *Establishment and Operation of a Regional Reference Center for Unclassified U.S. Government Scientific and Technical Reports*; 1 year; \$12,877

## SCIENTIFIC PUBLICATIONS

ACTA METALLURGICA, Schenectady, N.Y.; W. R. Hibbard; *Translation and Publication of the 1962 Issues of the Russian Journal of Abstracts-Metallurgy, Part A and Part B*; 1 year; \$69,000

AMERICAN ASTRONOMICAL SOCIETY, Princeton, N.J.; Lyman Spitzer, Jr.; *Emergency Support for the Astronomical Journal*; 2 years; \$18,500

AMERICAN CHEMICAL SOCIETY, Washington, D.C.; Richard H. Belknap; *Support to Bring Annual Subject and Formula Indexes to Chemical Abstracts Up to Date*; 1 year; \$190,000

AMERICAN GEOGRAPHICAL SOCIETY, New York, N.Y.; Charles B. Hitchcock; *Publication of Soviet Geography: Accomplishments and Tasks*; 3 years; \$9,075

A. W. Kuchler, University of Kansas; *Publication of A Colored Map of the Natural Vegetation of the United States of America*; 2 years; \$47,123

Wilfrid Webster; *Preparation and Publication of Three Volumes of a Serial Atlas of the Marine Environment*; 1 year; \$47,660



AMERICAN GEOPHYSICAL UNION, Washington, D.C.; Waldo E. Smith; *Support for Publication of the Proceedings of the Matthew Fontaine Maury Memorial Symposium on Antarctic Research*; 6 months; \$10,682

Waldo E. Smith and A. Nelson Sayre; *Emergency Publication Support for the IG Bulletin*; 1 year; \$37,500

AMERICAN INSTITUTE OF BIOLOGICAL SCIENCES, Washington, D.C.; Hiden T. Cox; *Experimental Publication of a Scientific Journal in Microform*; 18 months; \$8,724  
Hiden T. Cox; *Participation of Ten Editors of Latin American Biological Journals in the 1962 Conference of Biological Editors*; 8 months; \$14,651

Frank Fremont-Smith; *Publication of Proceedings of the First Conference on Marine Biology*; 1 year; \$18,272

John R. Olive; *Biological Sciences Communication Project*; 1 year; \$128,850

Charles W. Shilling; *Survey of Scientific Research as Acknowledged in 100 Selected Biological Journals*; 6 months; \$2,324

AMERICAN INSTITUTE OF THE HISTORY OF PHARMACY, Madison, Wis.; Sami K. Hamarneh, U.S. National Museum, and Glenn Sonnedecker; *Support for Publication of the Monograph, A Pharmaceutical View of Abulcasis al-Zahrawi*; 1 year; \$1,380

AMERICAN INSTITUTE OF PHYSICS, New York, N.Y.; Elmer Hutchisson; *Publication Support of a New Journal, Applied Optics*; 3 years; \$44,625

Elmer Hutchisson; *Applied Physics Letters*; 6 months; \$23,635

AMERICAN MATHEMATICAL SOCIETY, Providence, R.I.; Gordon L. Walker; *Publication of Mathematical Reviews*; 6 months; \$286,000

Gordon L. Walker; *Development of the Use of Photon for the Composition of Mathematical Reviews*; 2 years; \$114,000

AMERICAN METEOROLOGICAL SOCIETY, Boston, Mass.; Malcolm Rigby; *Partial Support of Expansion of Meteorological and Geostrophysical Abstracts*; 1 year; \$98,900

AMERICAN ROCKET SOCIETY, New York, N.Y.; Irwin Hersey; *Partial Publication Support for the American Rocket Society Journal*; 18 months; \$32,300

AMERICAN SOCIETY OF ICHTHYOLOGISTS AND HERPETOLOGISTS, Philadelphia, Pa.; William J. Riemer, Florida State Museum; *Preparation and Publication of a Catalogue of American Amphibians and Reptiles*; 2 years; \$20,725

AMERICAN SOCIETY OF LIMNOLOGY AND OCEANOGRAPHY, INC., Ann Arbor, Mich.; George H. Lauff; *Partial Publication Support for Limnology in North America*; 1 year; \$7,000

BERNICE P. BISHOP MUSEUM, Honolulu, Hawaii; Alexander Spoehr; *Support of Publications Resulting from the Tenth Pacific Science Congress*; 2 years; \$34,050

Alexander Spoehr; *Five Monographs in Anthropology, Archaeology, Invertebrate Zoology, and Botany*; 2 years; \$26,675

BIOLOGICAL ABSTRACTS, INC., Philadelphia, Pa.; G. Miles Conrad; *Continued Expansion of Coverage of Biological Abstracts*; 1 year; \$218,000

CHEMICAL ABSTRACTS SERVICE, Columbus, Ohio; G. Malcolm Dyson; *Development and Initiation of a Mechanized File of Chemical Information*; 1 year; \$156,500

CHICAGO NATURAL HISTORY MUSEUM, Ill.; Robert F. Inger; *Partial Publication Support of The Fresh-water Fishes of North Borneo*; 1 year; \$4,100

COMBUSTION INSTITUTE, Pittsburgh, Pa.; Bernard Lewis; *Publication of the Ninth International Combustion Symposium Proceedings*; 1 year; \$12,000

CORNELL UNIVERSITY, Ithaca, N.Y.; Martha Stahr Carpenter; *Bibliography of Natural Radio Emission from Astronomical Sources*; 1 year; \$23,000

DIVISION OF PLANT INDUSTRY, STATE OF FLORIDA, DEPARTMENT OF AGRICULTURE, Gainesville; Charles P. Kimball; *Partial Support for the Preparation and Publication of Lepidoptera of Florida*; 1 year; \$4,000

EARTHQUAKE ENGINEERING RESEARCH INSTITUTE, Pasadena, Calif.; George W. Housner; *Publication of a Scientific Report on the Chilean Earthquakes of 1960*; 1 year; \$7,020

ENGINEERING INDEX, INC., New York, N.Y.; Carolyn Flanagan; *Partial Support of Expansion and Modernization of Engineering Index*; 1 year; \$90,000

DUKE UNIVERSITY, Durham, N.C.; Harold E. Robinson; *Publication of Generic Revisions of North American Brachythecaceae*; 1 year; \$900

FEDERATION OF AMERICAN SOCIETIES FOR EXPERIMENTAL BIOLOGY, Washington, D.C.; Milton O. Lee; *Partial Support for the Office of Biological Handbooks*; 2 years; \$40,000

FEDERATION INTERNATIONALE DE DOCUMENTATION, Paris, France; J. E. Humblet; *Support of the Federation Internationale de Documentation*; 2 years; \$5,900

FLORIDA STATE UNIVERSITY, Tallahassee; Ruth Schornherst Breen; *An Illustrated Manual of the Mosses of Florida*; 1 year; \$2,500

HARVARD UNIVERSITY, Cambridge, Mass.; I. Mackenzie Lamb; *Publication of Index Nominum Lichenum Annis 1934-1960 Vulgatorum*; 1 year; \$15,500

Thomas J. Wilson; *Partial Support of Final Preparation and Republication of Collected Experimental Papers by Percy W. Bridgman*; 1 year; \$34,810

HUMAN RELATIONS AREA FILES, INC., New Haven, Conn.; Clellan S. Ford; *Preparation and Publication of a Comprehensive Ethnographic Bibliography of South America*; 18 months; \$16,800

INDIANA UNIVERSITY FOUNDATION, Bloomington; Frank J. Welcher; *Preparation of Two Monographs on the Use of Organic Analytical Reagents*; 3 years; \$4,000

INSTITUTE OF THE AEROSPACE SCIENCES, New York, N.Y.; Robert R. Dexter; *Reduction of Backlog and Expansion of Coverage of the Journal of the Aerospace Sciences*; 2 years; \$85,600

S. Paul Johnston; *Continued Support of International Aerospace Abstracts*; 1 year; \$50,600

S. Paul Johnston; *Support of the Preparation and Publication of the 1962 Annual Index of the International Aerospace Abstracts*; 1 year; \$39,000

INSTITUTE OF MALACOLOGIA, Ann Arbor, Mich.; John B. Burch; *Establishment of a New International Journal Malacologia*; 3 years; \$11,037

INTERNATIONAL COUNCIL OF SCIENTIFIC UNIONS, Paris, France; G. A. Boutry; *Continued Partial Support of the International Abstracting Board*; 1 year; \$7,500

INTERNATIONAL UNION OF PHYSIOLOGICAL SCIENCES, Rochester, N.Y.; Wallace O. Fenn, University of Rochester; *Partial Support for Publications of the XII International Congress of Physiological Sciences*; 1 year; \$12,880

IOWA STATE UNIVERSITY PRESS, Ames; Paul L. Errington; *Partial Support for Publication of Muskrat Populations*; 1 year; \$6,127

NATIONAL ACADEMY OF SCIENCES, NATIONAL RESEARCH COUNCIL, Washington, D.C.; Hugh Odishaw; *Emergency Publication Support for the IGY Bulletin*; 1 year; \$36,144

Robert C. Stephenson; *Continued Support for the Publication of GeoScience Abstracts*; 2 years; \$57,000

NATIONAL FEDERATION OF SCIENCE ABSTRACTING & INDEXING SERVICES, Washington, D.C.; Raymond A. Jensen; *Partial Support of the Federation Secretariat*; 5 months; \$13,000

Raymond A. Jensen; *Study to Develop a National Plan and Program Defining the Current and Future Role of the Scientific Abstracting, Indexing, and Reviewing Services of the U.S.*; 18 months; \$184,000

NEW YORK BOTANICAL GARDEN, New York; Otto Degener; *Publication Support for Flora Hawaiiensis, Book VI*; 1 year; \$6,000

E. H. Fulling; *Publication of Classification of Natural Communities by R. H. Whittaker*; 1 year; \$1,700

Rudolf M. Schuster, University of Massachusetts; *Publication Support for a Monograph, The Hepaticae and Anthocerotae of Eastern North America*; 2 years; \$13,936

OPERATIONS RESEARCH SOCIETY OF AMERICA, Ann Arbor, Mich.; Herbert P. Galliher; *Partial Support for Establishing International Abstracts in Operations Research*; 2 years; \$24,000

PALEONTOLOGICAL SOCIETY, Ithaca, N.Y.; Claude Albritton; *Partial Publication Support for the Journal of Paleontology*; 4 years; \$4,795

PENNSYLVANIA STATE UNIVERSITY, University Park; William Spackman; *Continued Support for the Compilation and Publication of Catalog of Fossil Spores and Pollen*; 2 years; \$33,500

PRINCETON UNIVERSITY, Princeton, N.J.; John W. Tukey; *Experimentation with a Citation Index for Statistical Methodology*; 2 years; \$30,000

SCOTT POLAR RESEARCH INSTITUTE, Cambridge, England; Hilda Richardson; *Partial Support of the Journal of Glaciology*; 1 year; \$7,000

SOUTHERN STATE COLLEGE, Magnolia, Ark.; George E. Fry; *Partial Publication Support*

*of A Bibliography of Fossil Man, Parts I and II*; 1 year; \$1,000

SOUTHWESTERN ASSOCIATION OF NATURALISTS, Durant, Okla.; Donald W. Tinkle; *The Southwestern Naturalist*; 3 years; \$3,725

TENTH NATIONAL CLAY CONFERENCE, Austin, Texas; Earl Ingerson; *Partial Support of Cumulative Index to Proceedings of the Clay Minerals Conference*; 1 year; \$750

TEXAS RESEARCH FOUNDATION, Renner; Donovan S. Correll; *Publication Support for the Monograph The Potato and Its Wild Relatives*; 1 year; \$19,115

U.S. LIBRARY OF CONGRESS, Washington, D.C.; L. Quincy Mumford; *Compilation of a Bibliography of Foreign Abstracting and Indexing Services*; 3 months; \$3,360

UNIVERSITY OF CALIFORNIA, Berkeley; John N. Belkin, Los Angeles; *Mosquitoes of the South Pacific*; 6 months; \$7,354

UNIVERSITY OF CALIFORNIA PRESS, Berkeley; Ernest Callenbach and August Fruge; *Partial Publication Support of Ludwig Boltzmann's Lectures on Gas Theory*; 1 year; \$3,508

UNIVERSITY OF COLORADO, Boulder; Robert E. Gregg; *Publication Support for the Monograph, Ants of Colorado, With Reference to Their Ecology, Taxonomy, and Geographic Distribution*; 1 year; \$8,500

UNIVERSITY OF MIAMI, Coral Gables, Fla.; F. G. Walton Smith and Donald P. de Sylva, Miami; *Support of the Publication of The Systematics and Life History of the Great Barracuda, Sphyrna Barracuda (Walbaum)*; 6 months; \$3,600

UNIVERSITY OF MINNESOTA, Minneapolis; W. J. Luyten; *Publication Support for General Catalogue of the Bruce Proper Motion Survey*; 1 year; \$12,175

UNIVERSITY OF NORTH CAROLINA, Chapel Hill; Theodore B. Mitchell, Raleigh; *Publication of Bees of the Eastern United States, Part 2*; 1 year; \$6,000

UNIVERSITY OF PENNSYLVANIA, Philadelphia; Frank B. Wood; *Support for the Completion and Publication of a Fourth Edition of A Finding List for Observers of Eclipsing Variables*; 1 year; \$9,400

UNIVERSITY OF PITTSBURGH, Pa.; Adolf Grunbaum; *Publication Support for a Volume of Major Papers on Key Issues in the Philosophy of Science*; 1 year; \$6,000

UNIVERSITY OF RHODE ISLAND, Kingston; Richard D. Wood; *Publication of the Monograph A Manual and Revision of Characeae*; 2 years; \$12,169

UNIVERSITY OF TENNESSEE, Knoxville; L. R. Hesler and Alexander H. Smith, University of Michigan; *Partial Support of Publication of a Monograph North American Species of Hygrophorus*; 1 year; \$8,680

UNIVERSITY OF TEXAS, Austin; G. de Vaucouleurs; *Reference Catalogue of Bright Galaxies*; 1 year; \$1,840

UNIVERSITY OF TOLEDO, Ohio; Wilhelm Eitel; *Completion of the Manuscript for a New Edition of The Physical Chemistry of the Silicates*; 1 year; \$6,100

UNIVERSITY OF WISCONSIN, Madison; Marshall Clagett; *Partial Support of Publication*

of *Archimedes in the Middle Ages, Volume I, The Arabo-Latin Tradition*; 1 year; \$5,000  
WAYNE STATE UNIVERSITY, Detroit, Mich.; S. K. Gangwere; *Partial Support of Publication of Monograph Food Selection in Orthoptera*; 1 year; \$800  
WESLEYAN UNIVERSITY, Middletown, Conn.; Thornton Page; *Publication of the Proceedings of the Conference on Instability of Systems of Galaxies*; 6 months; \$6,000

## CONFERENCES

AGRICULTURAL & MECHANICAL COLLEGE OF TEXAS, College Station; Richard E. Wainerd; *Modern Trends in Activation Analysis*; 1 year; \$2,300

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, Washington, D.C.; Graham DuShane; *The Problems of Transliteration from the Cyrillic to the Latin Alphabet*; 2 months; \$2,400

AMERICAN AUTOMATIC CONTROL COUNCIL, Whippany, N.J.; Harold Chestnut; *Workshop on Automatic Control Research*; 6 months; \$5,120

AMERICAN CHEMICAL SOCIETY, Washington, D.C.; Arthur E. Heming; *Active Sites of Enzymes and Molecular Biology of Collagen*; 1 year; \$2,500

AMERICAN FOUNDATION FOR THE BLIND, INC., New York, N.Y.; M. Robert Barnett; *International Congress on Technology and Blindness*; 1 year; \$20,000

AMERICAN INSTITUTE OF BIOLOGICAL SCIENCES, Washington, D.C.; Frank Fremont-Smith; *Second Conference on Marine Biology*; 1 year; \$15,000

John R. Olive; *8th International Congress for Microbiology*; 1 year; \$9,600

AMERICAN MATHEMATICAL SOCIETY, Providence, R.I.; Gordon L. Walker; *Symposium on High-Speed Computing and Mathematical Research*; 18 months; \$8,000

AMERICAN PSYCHOLOGICAL ASSOCIATION, Washington, D.C.; John G. Darley; *Support of the XVII International Congress of Psychology*; 2 years; \$36,000

AMERICAN ROCKET SOCIETY, INC., New York, N.Y.; James J. Harford; *Support of the XIIth International Astronautical Congress*; 1 year; \$5,000

AMERICAN SOCIETY FOR HORTICULTURAL SCIENCE, Gainesville, Fla.; Quentin B. Ziellinski, Oregon State University; *Fruit Breeding Symposium*; 1 year; \$1,200

AMERICAN SOCIETY OF MECHANICAL ENGINEERS, New York, N.Y.; Eric F. Lype; *Second Symposium on Thermophysical Properties*; 1 year; \$9,500

A. C. Mueller; *International Heat Transfer Conference*; 1 year; \$15,000

AMERICAN SOCIETY OF ZOOLOGISTS, Urbana, Ill.; C. Ladd Prosser; *Six Annual Regional Conferences in Comparative Endocrinology*; 1 year; \$6,900

AMERICAN UNIVERSITY, Washington, D.C.; Lawrence Krader; *Conference on International Information Services in the Social Sciences*; 6 months; \$2,571

BROWN UNIVERSITY, Providence, R.I.; John Ross; *International Conference on Irreversible Thermodynamics*; 1 year; \$7,100

CARNEGIE INSTITUTE OF WASHINGTON, Washington, D.C.; Merle A. Tuve; *Working Conference in Peru on Equatorial Aeronomy*; 1 year; \$12,500

CENTER FOR ADVANCED STUDY IN THE BEHAVIORAL SCIENCES, Stanford, Calif.; Jerry Hirsch, University of Illinois; *Research Conference on Behavior Genetics*; 1 year; \$18,000

COLORADO STATE UNIVERSITY RESEARCH FOUNDATION, Fort Collins; Gestur Johnson; *Biochemistry of Plant Phenolic Substances*; 1 year; \$6,000

COMBUSTION INSTITUTE, Pittsburgh, Pa.; Bernard Lewis; *Ninth International Combustion Symposium*; 1 year; \$25,000

CORNELL UNIVERSITY, Ithaca, N.Y.; R. H. Wasserman; *Transfer of Calcium and Strontium Across Biological Membranes (with emphasis on Gastrointestinal Absorption)*; 1 year \$4,000

FEDERATION OF AMERICAN SOCIETIES FOR EXPERIMENTAL BIOLOGY, Washington, D.C.; Milton O. Lee; *Conference on the Manpower Requirements of Biomedical Research and Teaching*; 1 year; \$9,300

Stanford Moore; *Planning Committee Meetings for the Vith International Congress of Biochemistry*; 1 year; \$10,000

FOUNDATION FOR INSTRUMENTATION EDUCATION AND RESEARCH, New York, N.Y.; Lloyd E. Slater; *Symposium on the Impact of Systems Engineering Education and Research*; 1 year; \$5,700

GALESBURG STATE RESEARCH HOSPITAL, Galesburg, Ill.; Harold E. Himwich; *Conference on Developing Brain and Biogenic Amines*; 1 year; \$5,500

GORDON RESEARCH CONFERENCES, INC., Kingston, R.I.; W. George Parks, University of Rhode Island; *Structure and Function of Multilayer Systems in Cells*; 1 year; \$4,500

Cyrus Levinthal, Massachusetts Institute of Technology and Leon A. Heppel, National Institutes of Health; *Conference on Nucleo Acids and Proteins*; 4 months; \$3,500

HARVARD UNIVERSITY, Cambridge, Mass.; E. B. Whittington; *Evolution and Phylogeny of Crustacea*; 1 year; \$4,400

HISTOCHEMICAL SOCIETY, Chicago, Ill.; William L. Doyle; *Histochemistry and Extracellular Substances*; 1 year; \$800

INDIANA UNIVERSITY FOUNDATION, Bloomington; Thomas A. Sebeok; *Meeting of the Committee of the Dissemination of Linguistic Literature*; 1 year; \$2,300

INSTITUTE OF RADIO ENGINEERS, New York, N.Y.; George Birnbaum; *International Conference on Precision Electromagnetic Measurements*; 1 year; \$7,425

LONG ISLAND BIOLOGICAL ASSOCIATION, Cold Spring Harbor, N.Y.; Arthur Chovnick; *Cold Spring Harbor Symposium on Quantitative Biology*; 1 year; \$7,000

MASSACHUSETTS INSTITUTE OF TECHNOLOGY, Cambridge; Thomas T. Sandel; *Research Conference in Computer Techniques for Biological Scientists*; 1 year; \$16,000

METALLURGICAL SOCIETY OF AIME, New York, N.Y.; J. Stuart Smart, Jr.; *Symposium on High Purity Iron and Its Dilute Solid Solutions*; 1 year; \$650

J. Stuart Smart, Jr.; *Symposium on Effect of Surface and Environment on Strength*; 1 year; \$4,040

J. S. Smart, Jr.; *Research Symposia of AIME Annual Meeting*; 6 months; \$4,400

MINERALOGICAL SOCIETY OF AMERICA, University Park, Pa.; Elburt F. Osborn; *Support of International Mineralogical Association Meeting*; 1 year; \$25,400

MISSOURI BOTANICAL GARDEN, St. Louis; Fritz W. Went; *Symposium on Quantitative Systematics*; 1 year; \$1,900

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL, Washington, D.C.; John S. Coleman; *Conference on Advances in Nuclear Geophysics*; 1 year; \$12,000

Robert M. Dillon; *First American Conference on Frozen Ground*; 1 year; \$5,000

Linn Hoover; *Tenth Annual Conference on Clays and Clay Minerals*; 1 year; \$4,000

Linn Hoover; *Conference on Recovery of Pleistocene Fossils*; 1 year; \$5,000

Hugh Odishaw; *Third International Space Science Symposium and COSPAR Plenary Meeting*; 1 year; \$28,000

Andre C. Simonpletri; *Ad Hoc Meeting on Mineral Industry Education*; 6 months; \$4,625

H. Burr Steinbach; *Symposium on Plant Pathogens in Soil*; 1 year; \$13,400

H. Burr Steinbach; *Symposium on Plant Pathogens in Soil*; 1 year; \$13,300

M. H. Trytten; *12th Meeting of Nobel Laureates at Lindau*; 3 months; \$2,650

J. W. Williams; *University of Wisconsin; Sedimentation Analysis*; 1 year; \$12,000

NEW MEXICO STATE UNIVERSITY, University Park; Elbert A. Walker; *Conference on Abelian Groups*; 6 months; \$9,000

NEW YORK UNIVERSITY, New York; John M. Converse and Blair O. Rogers; *Support of the Fifth Tissue Transplantation Conference*; 1 year; \$7,350

OHIO STATE UNIVERSITY, Columbus; Richard A. Tybout; *Conference on Factors in Technological Research and Development*; 1 year; \$2,000

OREGON STATE UNIVERSITY, Corvallis; Roy A. Young; *Wilt Disease Conference*; 1 year; \$3,200

PALAEONTOLOGICAL SOCIETY, New York, N.Y.; Norman D. Newell; *Symposium on the Principles of Paleocology*; 1 year; \$2,420

PAN AMERICAN UNION, Washington, D.C.; Anthony Leeds; *Seminar in Social Structure of Latin America*; 6 months; \$10,100

PATENT OFFICE SOCIETY, Washington, D.C.; Harold Pfeffer; *International Patent Office Workshop on Information Retrieval*; 3 months; \$15,000

PENNSYLVANIA STATE UNIVERSITY, University Park; Rustum Roy; *Conference on Crystal Synthesis and Structure in Solid State Research*; 1 year; \$1,700

J. M. Warren; *The Prefrontal Cortex and Behavior*; 1 year; \$6,400

PROTEIN FOUNDATION, INC., Jamaica Plain, Mass.; Robert B. Pennell; *Annual Scientific Meetings of Protein Foundation*; 1 year; \$500

PURDUE UNIVERSITY, Lafayette, Ind.; R. L. Stucky; *Inter-University Seminar Series in Quantitative Economics*; 3 years; \$34,700

RESEARCH FOUNDATION OF STATE UNIVERSITY OF NEW YORK, Albany; Martynas Ycas, Syracuse; *Conference on Biological Coding by Macromolecules*; 1 year; \$6,800

RETINA FOUNDATION, Boston, Mass.; J. Gergely; *Conference on Biochemistry of Muscle Contraction*; 1 year; \$20,000

RUTGERS, THE STATE UNIVERSITY, New Brunswick, N.J.; Vernon Bryson, Henry J. Vogel, and J. Oliver Lampen; *Symposium on Informational Macromolecules*; 1 year; \$14,300

James W. Green; *Conference on The Applications of Fundamental Biology to the Needs of Man*; 1 year; \$900

STANFORD UNIVERSITY, Stanford, Calif.; Howard H. Pattee; *Third International Symposium on X-ray Optics and X-ray Microanalysis*; 1 year; \$5,895

UNIVERSITY COLLEGE OF THE WEST INDIES, Andrew, Jamaica, British West Indies; John W. Purseglove; *Neotropical Botany Conference*; 1 year; \$9,600

UNIVERSITY OF BUFFALO, Buffalo, N.Y.; James F. Daniell; *Conference on Amplification Techniques in Cell Biology*; 1 year; \$3,700

UNIVERSITY OF CALIFORNIA, Berkeley; Mary A. B. Brazler, Los Angeles; *Research Conference in Computer Techniques for Biological Scientists*; 1 year; \$17,600

Robert Hayes and Robert Vosper; *Information Systems Workshop: The Designer's Responsibility and His Methodology*; 1 year; \$21,000

E. P. Popov; *World Conference on Shell Structures*; 1 year; \$4,800

H. W. Magoun, Los Angeles; *Second Conference on Brain and Behavior: The Internal Environment and Alimentary Behavior*; 1 year; \$23,400

H. W. Magoun and C. D. O'Malley, Los Angeles; *Symposium on Neurophysiology*; 1 year; \$3,500

UNIVERSITY OF COLORADO, Boulder; R. Grant Athay; *Symposium on Magnetic Fields in the Solar System*; 6 months; \$420

UNIVERSITY OF CONNECTICUT, Storrs; Robert C. Cleverdon; *Conference on Pleuropneumonia-like Organisms*; 1 year; \$5,000

Heinz Herrmann; *Perspectives in Developmental Genetics*; 1 year; \$3,850

UNIVERSITY OF COSTA RICA, San Jose; John L. De Abate; *Second Latin American Congress of Microbiology*; 1 year; \$2,500

UNIVERSITY OF KANSAS, Lawrence; Charles A. Leone; *Conference on Taxonomic Biochemistry, Physiology and Serology*; 18 months; \$17,800

UNIVERSITY OF MAINE, Orono; Ralph E. Armstrong; *International Symposium on Electric Contact Theory*; 1 year; \$4,400

UNIVERSITY OF MINNESOTA, Minneapolis; Eugene P. Pfeider; *Fifth Rock Mechanics Symposium*; 1 year; \$2,500

UNIVERSITY OF NOTRE DAME, Notre Dame, Ind.; Arnold E. Ross; *Mathematical Models in the Physical Sciences*; 6 months; \$9,000

UNIVERSITY OF SOUTHERN CALIFORNIA, Los Angeles; Jay M. Savage; *Conference on Problems in Education and Research in Tropical Biology*; 6 months; \$9,575

UNIVERSITY OF TEXAS Austin; Felix L. Haas, Houston; *Conceptual Advances in Immunology and Oncology*; 1 year; \$15,640

UNIVERSITY OF UPPSALA, Uppsala, Sweden; Per-Olov Lowdin; *International Summer Institute in Quantum Chemistry*; 1 year; \$9,000

UNIVERSITY OF VIRGINIA, Charlottesville; Morris E. Rose; *Eastern Conference on Theoretical Physics*; 1 year; \$2,500

WAYNE STATE UNIVERSITY, Detroit, Mich.; Harry H. Josselson; *Conference on Mechanical Translation Syntax Analysis and Programming*; 4 days; \$5,500

WENNER-GREN FOUNDATION FOR ANTHROPOLOGICAL RESEARCH, INC., New York, N.Y.; Dell H. Hymes, University of California; *The Use of the Computer in Anthropology*; 1 year; \$3,800

WILLIAM MARSH RICE UNIVERSITY, Houston, Tex.; Allen C. Enders; *Symposium on the Subject of Delayed Implantation*; 1 year; \$8,000

YALE UNIVERSITY, New Haven, Conn.; Richard C. Barker; *Workshop on the Physics of Flux Reversal in Magnetic Materials*; 1 year; \$3,000

Mead LeRoy Jensen; *Biogeochemistry of Sulfur Isotopes*; 1 year; \$10,000

## INTERNATIONAL TRAVEL

First Argentine Conference on Earthquake Engineering, San Juan, Argentina; April 16 to April 21, 1962:

Glen V. Berg; University of Michigan; \$670

First European Malacological Congress, London, England; September 17 to September 22, 1962:

R. Tucker Abbott; Academy of Natural Sciences of Philadelphia; \$507  
John E. Burch; University of Michigan; \$528

Melbourne R. Carriker; U.S. Bureau of Commercial Fisheries; \$482

Robert Robertson; Academy of Natural Sciences of Philadelphia; \$507

Dwight W. Taylor; U.S. Geological Survey; \$517

Henry van der Schalle; University of Michigan; \$528

First International Conference on Paramagnetic Resonance, Jerusalem, Israel; July 16 to July 20, 1962:

George Benedek; Massachusetts Institute of Technology; \$875

Nicholaas Bloembergen; Harvard University; \$900

Joseph I. Budnick; Fordham University; \$900

Joseph Eisinger; Bell Telephone Laboratories; \$900

Robert Engiman; Massachusetts Institute of Technology; \$900

George Feher; University of California; \$1,175

Sven R. Hartmann; University of California; \$1,175

Walter Hauser; Northeastern University; \$900

Arnold Honig; Syracuse University; \$925

Alvin Kiel; Johns Hopkins University; \$925

Daniel Kivelson; University of California; \$1,175

George F. Koster; Massachusetts Institute of Technology; \$900

Edgar Lipworth; Brandeis University; \$900

G. W. Ludwig; General Electric Research Laboratory; \$900

Joaquin M. Luttinger; Columbia University; \$900

S. A. Marshall; Armour Research Foundation; \$960

Raymond L. Orbach; Harvard University; \$900

Marshall S. Sparks; Stanford University; \$1,175

Harvey J. Stapleton; University of Illinois; \$1,025

John E. Wertz; University of Minnesota; \$1,000

First International Congress on Chemical Machinery, Engineering, and Automation, Brno, Czechoslovakia; September 2 to September 9, 1962:

Donald F. Othmer; Polytechnic Institute of Brooklyn; \$629

Joe Mauk Smith; University of California; \$900

First Meeting, International Ship Structural Congress, Glasgow, Scotland; September 19 to September 21, 1961:

Edward V. Lewis; Stevens Institute of Technology; \$425

Second Annual West African Languages Congress, Dakar, Senegal; April 12 to April 17, 1962:

William J. Samarin; Hartford Seminary Foundation; \$740

Hans Wolff; Michigan State University; \$775

Second Conference on Nonlinear Vibrations, Warsaw, Poland; September 18 to September 21, 1962:

R. M. Rosenberg; University of California; \$982

Second European Congress of Microcirculation, Pavia, Italy; September 1962:

Stanley E. Charm; Massachusetts Institute of Technology; \$700

Second International Conference on Stress Analysis, Paris, France; April 10 to April 14, 1962:

M. M. Frocht; Illinois Institute of Technology; \$596

Peter K. Stein; Arizona State University; \$807

Second International Congress of Radiation Research, Harrogate, Yorkshire, England; August 5 to August 11, 1962:

National Academy of Sciences, National Research Council, Washington, D.C.; \$15,000

Second International Symposium on Continuous Culture of Microorganisms, Prague, Czechoslovakia; June 18 to June 23, 1962:

Richard I. Mateles; Massachusetts Institute of Technology; \$800

Erling J. Ordal; University of Washington; \$850

Second International Symposium on the Chemistry of Natural Products; Prague, Czechoslovakia; August 27 to September 2, 1962:

Roger Adams; University of Illinois; \$700

- Ajay K. Bose; Stevens Institute of Technology; \$400  
 Werner Herz; Florida State University; \$750  
 Richard K. Hill; Princeton University; \$600  
 Maurice Shamma; Pennsylvania State University; \$640  
 Milton D. Soffer; Smith College; \$625  
 D. M. S. Wheeler; University of Nebraska; \$750  
 Emil H. White; Johns Hopkins University; \$625
- Second Latin American Congress of Microbiology, San Jose, Costa Rica; December 10 to December 17, 1961:  
 Eugene H. Cota-Robles; University of California; \$341  
 Philipp Gerhardt; University of Michigan; \$449  
 Franklin Sogandares-Bernal; Tulane University; \$270  
 Kenneth F. Wertman; University of Arizona; \$512
- 2d Latin American Congress of Zoology, Sao Paulo, Brazil; July 1962:  
 James A. Peters; San Fernando Valley State College; \$700
- Second Symposium on Antibiotics in Agriculture, Leicestershire, England; April 2 to April 6, 1962:  
 Robert N. Goodman; University of Missouri; \$625
- Second Symposium on Photoelectronic Image Devices as Aids to Scientific Observation, London, England; September 5 to September 8, 1961:  
 W. A. Hiltner; University of Chicago; \$688  
 Merle F. Walker; University of California; \$850
- Third Caribbean Geological Conference, Kingston, Jamaica; April 2 to April 11, 1962:  
 James I. Jones; University of Miami; \$200
- Third Congress, European Federation of Chemical Engineering, London, England; June 20 to June 26, 1962:  
 Harry G. Drickamer; University of Illinois; \$600  
 Irving Fatt; University of California; \$717  
 Andrew W. Jenike; University of Utah; \$707  
 Rustum Roy; Pennsylvania State University; \$524
- Third Congress, International Council of the Aeronautical Sciences, Stockholm, Sweden; August 27 to September 1, 1962:  
 E. V. Laitone; University of California; \$860
- Third International Symposium on Rarefied Gas Dynamics, Paris, France; June 26 to June 30, 1962:  
 Raymond L. Chuan; University of Southern California; \$816  
 Donald R. Willis; Princeton University; \$526  
 Henry Wise; Stanford Research Institute; \$806
- Third Meeting of the Standing Committee on Hydrogeologic Maps, Paris, France; March 3 to March 12, 1962:  
 Phillip E. LaMoreaux; Alabama State Oil and Gas Board; \$700
- Fourth International Congress on Acoustics, Copenhagen, Denmark; August 21 to August 28, 1962:  
 John F. Corso; Pennsylvania State University; \$600  
 Ladislav Dolansky; Northeastern University; \$575  
 Herbert A. Erf; Acoustical Society of America; \$600  
 Karl F. Herzfeld; Catholic University; \$800  
 Egon A. Hiedemann; Michigan State University; \$600  
 William F. Hughes; Carnegie Institute of Technology; \$650  
 Edgar A. Kraut; University of California; \$825  
 Robert B. Lindsay; Brown University; \$600  
 Douglas F. Muster; University of Houston; \$765  
 Wayne Rudmose; Southern Methodist University; \$480  
 Thomas D. Sachs; University of Vermont; \$600  
 Robert A. Walking; Harvard University; \$550
- Fourth International Congress on Acoustics, Copenhagen, Denmark; Speech Communication Seminar, Stockholm, Sweden; and Information Theory Symposium, Brussels, Belgium; August and September 1962:  
 Edward C. Carterette; University of California; \$980
- 4th International Symposium on Gas Chromatography, Hamburg, Germany; June 13 to June 16, 1962:  
 Warren W. Brandt; Kansas State University; \$700  
 Richard S. Juvet, Jr.; University of Illinois; \$650
- 4th International Symposium on Nutrient Absorption by Plants, Pisa and Florence, Italy; April 9 to April 14, 1962:  
 Harold Bradford Tukey; Michigan State University; \$1,100
- Fifth European Symposium on Fruit Tree Viruses, Bologna, Italy; June 1 to June 8, 1962:  
 Harvey K. Wagnon; State of California Dept. of Agriculture; \$900
- Fifth International Conference on Ionization Phenomena in Gases, Munich, Germany; August 28 to September 1, 1961:  
 Zohrab A. Kaprielian; University of Southern California; \$825  
 Martin Lessen; University of Rochester; \$610  
 Charles H. Papas; California Institute of Technology; \$825
- Fifth Pan American Congress of Endocrinology, Lima, Peru; October 15 to October 21, 1961:  
 Endocrine Society; \$6,500
- Sixth Congress, International Association on Quaternary Research, Warsaw, Poland; September 2 to September 7, 1961:  
 Robert Julius Drake; University of British Columbia; \$900  
 Estella B. Leopold; U.S. Geological Survey; \$795  
 Louis Lamy Ray; U.S. Department of the Interior; \$650

Sixth Congress of the International Commission for Optics, Munich, Germany; August 19 to August 26, 1962:

Stanley S. Ballard; University of Florida; \$640  
H. Richard Blackwell; Ohio State University; \$640  
Glenn A. Fry; Ohio State University; \$640  
M. Parker Givens; University of Rochester; \$610  
Jay Stuart Haft; Seton Hall College of Medicine; \$570  
Leo M. Hurvich; New York University; \$570  
Gerald H. Jacobs; Indiana University; \$650  
Kenneth N. Ogle; Mayo Clinic and Mayo Foundation; \$700  
David Z. Robinson; Office of Science Advisor; \$600  
Thorne Shipley; Bascom Palmer Eye Institute; \$720  
George W. Stroke; Massachusetts Institute of Technology; \$560  
Mary E. Warga; Optical Society of America; \$600

Sixth International Congress in Audiology, Leyden, The Netherlands; September 5 to September 8, 1962:

Leo G. Doerfler; University of Pittsburgh; \$530

VIIth International Congress of Prehistoric and Protohistoric Sciences, Rome, Italy; August 29 to September 3, 1962:

James B. Griffin; University of Michigan; \$690  
Kenneth Honea; University of Texas; \$800  
Hallam L. Movius, Jr.; Harvard University; \$200  
Wilhelm G. Solheim, II; University of Hawaii; \$1,125  
Fred Wendorf; Museum of New Mexico; \$115  
H. M. Wormington; Denver Museum of Natural History; \$810

Sixth International Congress on High Speed Photography, Scheveningen, Netherlands; September 17 to September 22, 1962:

Weston B. Farrand; Stanford Research Institute; \$830

Sixth Study Week on Traffic Engineering, Salzburg, Austria; September 10 to September 16, 1962:

Donald S. Berry; Northwestern University; \$714

7th International Conference on Coordination Chemistry, Stockholm, Sweden; June 25 to June 29, 1962:

John C. Ballar, Jr.; University of Illinois; \$625  
Carl H. Brubaker, Jr.; Michigan State University; \$650  
Daryle H. Busch; Ohio State University; \$675  
Richard L. Carlin; Brown University; \$620  
Bodie E. Douglas; University of Pittsburgh; \$660  
Quintus Fernando; University of Arizona; \$865  
Gilbert Gordon; University of Maryland; \$645  
Harry B. Gray; Columbia University; \$615

Randall E. Hamm; University of Utah; \$850

Lindsay Helmholz; Washington University; \$725

J. L. Hoard; Cornell University; \$650  
David N. Hume; Massachusetts Institute of Technology; \$800

Milton Kerker; Clarkson College of Technology; \$675

Stanley Kirschner; Wayne State University; \$650

Arthur E. Martell; Illinois Institute of Technology; \$700

Theron S. Piper; University of Illinois; \$700

Joel Selbin; Louisiana State University; \$775

Robert Carl Stoufer; University of Florida; \$615

Benson Ross Sundheim; New York University; \$615

R. Stuart Tobias; University of Minnesota; \$725

Wayne K. Wilmarth; University of Southern California; \$615

Seventh International Conference on Cosmic Rays and the Earth Storm, Kyoto, Japan; September 4 to September 15, 1961:

Herbert S. Bridge; Massachusetts Institute of Technology; \$1,150

T. Nell Davis; Geophysical Institute; \$750

T. Gold; Cornell University; \$1,200

Paul J. Kellogg; University of Minnesota; \$850

Mukul R. Kundu; University of Michigan; \$1,500

Robert S. Leonard; Geophysical Institute; \$750

7th Plenary Session of Comité Européen Du Béton, Luxembourg, Luxembourg; April 27 to May 1, 1962:

Phil M. Ferguson; University of Texas; \$540

8th International Ceramic Congress, Copenhagen, Denmark; May 21 to May 26, 1962:

Jesse D. Walton, Jr.; Georgia Institute of Technology; \$660

Eighth International Conference on Low Temperature Physics, London, England; September 16 to September 22, 1962:

Henry V. Bohm; Wayne State University; \$575

David H. Douglass, Jr.; Massachusetts Institute of Technology; \$605

John M. Goodkind; University of California; \$830

Leo P. Kadanoff; University of Illinois; \$625

K. Luszczynski; Washington University; \$630

Bernd T. Matthias; University of California; \$830

Hans Meissner; Stevens Institute of Technology; \$510

Robert H. Romer; Amherst College; \$535

San Fu Tuan; Brown University; \$605  
Harold Weinstock; Cornell University; \$490

Eighth International Meeting of the Institute of Management Sciences, Brussels, Belgium; August 23 to August 26, 1961:

Miles W. Martin, Jr.; Case Institute of Technology; \$652

**Eighth Latin American Congress on Chemistry, Buenos Aires, Argentina; September 16 to September 22, 1962:**

Ronald Breslow; Columbia University; \$660  
Malcolm Dole; Northwestern University; \$735

**Ninth Congress, International Association for Hydraulic Research, Belgrade, Yugoslavia; September 3 to September 7, 1961:**  
Chesley J. Posey; University of Iowa; \$775

**9th Plenary Meeting, International Organization for Standardization, Technical Committee 46 (Documentation), Paris, France; June 25 to June 27, 1962:**

Henry J. Dubester; Library of Congress; \$971  
Robert E. Kingery; New York Public Library; \$943  
Jerrold Orne; University of North Carolina; \$1,067

**Eleventh International Astrophysical Symposium, Liege, Belgium; July 9 to July 11, 1962:**

Wendell C. DeMarcus; University of Kentucky; \$715  
A. M. J. Gehrels; University of Arizona; \$825  
Paul W. Hodge; University of California; \$830  
Gerard P. Kulper; University of Arizona; \$825  
Barbara M. Middlehurst; University of Arizona; \$825  
Morton S. Roberts; Harvard University; \$582  
Gerhard F. Schilling; RAND Corporation; \$830  
Alex G. Smith; University of Florida; \$750  
Harlan J. Smith; Yale University; \$600  
Rupert Wildt; Yale University; \$650

**Eleventh International Conference on High Energy Physics, Geneva, Switzerland; July 4 to July 11, 1962:**

Giuseppe Cocconi; Cornell University; \$610  
Tsung-Dao Lee; Institute for Advanced Study; \$575  
Julian S. Schwinger; Harvard University; \$575  
John S. Toll; University of Maryland; \$600  
Chen Ning Yang; Institute for Advanced Study; \$575

**12th Congress of Logopedics and Phoniatrics, Padua, Italy; August 29 to September 4, 1962:**

John W. Black; Ohio State University; \$730  
Jon Elsenon; Queens College; \$910  
Harry Hollien; University of Wichita; \$790  
Wendell Johnson; University of Iowa; \$780  
M. D. Steer; Purdue University; \$700  
Ronald W. Wendahl; Baylor University College of Medicine; \$750

**12th World's Poultry Congress, Sydney, Australia; August 10 to August 18, 1962:**

R. A. Bankowski; University of California; \$1,000  
Hardy M. Edwards, Jr.; University of Georgia; \$1,300

A. M. Guhl; Kansas State University; \$1,000  
Morley R. Kare; University of North Carolina; \$1,300  
Emilio C. Mora; Auburn University; \$1,300

**Thirteenth International Committee of Electrochemical Thermodynamics and Kinetics, Rome, Italy; September 24 to September 29, 1962:**

John O'M. Bockris; University of Pennsylvania; \$641  
A. Anthony Toprac; University of Texas; \$680

**XVth Annual Congress of the International Science Film Assoc., Rabat, Morocco; September 16 to September 27, 1961:**

Robert E. Green; National Academy of Sciences-National Research Council; \$1,073  
Roman Vishniac; Yeshiva University; \$1,039  
Willard Webb; Library of Congress; \$1,073

**15th Assembly, International Institute of Welding, Oslo, Norway; June 25 to June 30, 1962:**

Robert D. Stout; Lehigh University; \$526

**XVI International Horticultural Congress, Brussels, Belgium; August 31 to September 8, 1962:**

American Society for Horticultural Science; Gainesville, Fla.; \$15,000

**17th Symposium of the Society for Experimental Biology, Edinburgh, Scotland; September 3 to September 8, 1962:**

John Tyler Bonner; Princeton University; \$550  
James H. Leech; University of Texas; \$700

**XXII International Congress of Physiological Sciences, Leiden, The Netherlands; September 11 to September 17, 1962:**

National Academy of Sciences-National Research Council; \$25,200

**Twenty-Fifth Anniversary Symposium, British Glaciological Society, Cambridge, England; January 5 to January 7, 1962:**

Charles R. Bentley; University of Wisconsin; \$480  
Edward R. LaChapelle; University of Washington; \$660

**Twenty-Seventh Conference of the International Federation for Documentation, London, England; September 12 to September 15, 1961:**

Alexander M. Moore; Parke, Davis and Co.; \$525

**33rd Session, International Statistical Institute, Paris, France; August 28 to September 7, 1961:**

Herbert Robbins; Columbia University; \$550

**49th Annual Meeting of International Council for Exploration of the Sea, Copenhagen, Denmark; October 2 to October 11, 1961:**

Dayton E. Carritt; Woods Hole Oceanographic Institute; \$419

**50th Anniversary Meeting of Palaontologische Gesellschaft, Tubingen, Germany and 3rd International Meeting of Neurobiologists, Kiel, Germany; September 1962:**

Tilly Edinger; Harvard University; \$620



1961 International Colloquy for Methodology of Sciences, Warsaw, Poland; September 18 to September 23, 1961:

Roderick M. Chisholm; Brown University; \$875

William K. Estes; Stanford University; \$750

Patrick Suppes; Stanford University; \$955

1962 International Semiconductor Conference, Exeter, England; July 16 to July 20, 1962:

Elias Burstein; University of Pennsylvania; \$525

Arthur G. Milnes; Carnegie Institute of Technology; \$200

James C. Phillips; University of Chicago; \$600

Annual Meeting of the International Federation of Library Associations, Edinburgh, Scotland; September 3 to September 7, 1961; and Twenty-Seventh Conference of the International Federation for Documentation, London, England; September 8 to September 14, 1961:

Eugene B. Jackson; General Motors Corporation; \$528

British Mathematics Colloquium, Southampton, England; April 10 to April 14, 1962:

Raoul Bott; Harvard University; \$500

Caribbean Division of the American Phytopathological Society, Guatemala; June 17 to June 23, 1962:

Frederick L. Wellman; University of Puerto Rico; \$350

Chemical Society, Anniversary Meetings, Sheffield, England; April 3 to April 5, 1962:

Henry Eyring; University of Utah; \$800

Classification and Human Evolution, Burg-Wartenstein, Austria; July 8 to July 21, 1962:

Wenner-Gren Foundation for Anthropological Research; \$4,000

Colloquium Internationale Neuro-Psycho Pharmacologicum, Munich, Germany; International Meeting on Phenothiazine Metabolism, Paris, France; Conference on Development and Structure of the Brain, Amsterdam, The Netherlands; International Congress of Physiological Sciences, Leyden, The Netherlands; and International Brain Research Organization Meeting, Paris, France; September 1962:

Heinrich Waelsch; Columbia University; \$720

Colloquium of Sint Jans Hospitaal Brugge—Belgium, Protides of Biological Fluids, Brugge, Belgium; May 3 to May 6, 1962:

Elliot S. Vesell; Rockefeller Institute; \$530

Colloquium of the Commission on the Arid Zone, Athens, Greece; September 1962:

Andrew W. Wilson; University of Arizona; \$1,000

Colloquium on Foundations of Mathematics, Mathematical Machines, and Their Applications, Budapest, Hungary; September 11 to September 15, 1962:

Robert B. Lees; University of Illinois; \$900

Colloquium on Non-Linear Vibrations (IUTAM), Kiev, U.S.S.R.; September 12 to September 26, 1961:

Iain Finnie; University of California; \$1,025

Robert E. Roberson; \$1,025

R. M. Rosenberg; University of California; \$1,050

Colloquium on Soil Fauna, Soil Micro-organisms and Their Relationships, Oosterbeek, Netherlands; September 10 to September 18, 1962:

Kurt K. Bohnsack; San Diego State College; \$800

Reinhold Mankau; University of California; \$863

Colloquium on Topology, Aarhus, Denmark; August 1 to August 10, 1962:

Donald W. Kahn; Columbia University; \$450

Components Committee of IFAC and Conference on Modern Methods of Calculation and Industrial Automation, Paris, France; May 25 to June 1, 1962:

J. Lowen Shearer; Massachusetts Institute of Technology; \$517

Conference of Human Genetics, Rome, Italy; September 7 to September 12, 1961:

Jay L. Lush; Iowa State University; \$1,200

Conference on Differential Equations and Their Applications, Prague, Czechoslovakia; September 5 to September 11, 1962:

Jack K. Hale; Research Institute for Advanced Study; \$600

Conference on Environmental Control of Plant Growth, Canberra, Australia; August 25 to August 31, 1962:

James Bonner; California Institute of Technology; \$1,050

Joost A. Businger; University of Washington; \$1,000

Robert M. Hagan; University of California; \$400

Karl C. Hamner; University of California; \$1,050

Harry R. Highkin; San Fernando Valley State College; \$1,050

Paul J. Kramer; Duke University; \$1,400

Anton Lang; California Institute of Technology; \$1,050

J. Levitt; University of Missouri; \$1,000

M. B. Russell; University of Illinois; \$1,300

F. C. Steward; Cornell University; \$1,400

Champ B. Tanner; University of Wisconsin; \$1,300

Conference on Linguistic Theory and Structural Grammar of German, Berlin, Germany; January 20 to January 26, 1962:

Robert B. Lees; University of Illinois; \$600

Conference on Nuclear Structure and Superconductivity, Neuchatel, Switzerland; July 12 to July 16, 1962:

Hans Frauenfelder; University of Illinois; \$675

J. Robert Schrieffer; University of Illinois; \$805

Conference on Partial Differential Equations, Prague, Czechoslovakia; September 5 to September 11, 1962:

Louis Nirenberg; New York University; \$750

- Conference on Repair from Genetic Radiation Damage and Differential Radio-sensitivity in Germ Cells, Leiden, Netherlands; August 16 to August 19, 1962:  
Helen Gay; Carnegie Institute of Washington; \$525
- Conference on The Impact of Physical Metallurgy on Technology, Buenos Aires, Argentina; April 2 to April 7, 1962:  
William Marsh Baldwin, Jr.; Case Institute of Technology; \$690  
Bruce Chalmers; Harvard University; \$640  
John P. Howe; Cornell University; \$650  
Robert Maddin; University of Pennsylvania; \$600  
Cyril Stanley Smith; Massachusetts Institute of Technology; \$640  
Morris Tanenbaum; Bell Telephone Laboratories; \$620
- Conference on the Ionosphere, London, England; July 2 to July 6, 1962:  
Erwin R. Schmerling; Pennsylvania State University; \$625  
Derek A. Tidman; University of Maryland; \$646
- Conference on the Present Status and Future Prospects of Television and Motion Pictures as Media for Medical Education, Milan, Italy; April 25 to April 27, 1962:  
Council on Medical Television of the Institute for the Advancement of Medical Communication; \$4,382
- Conference on the Theory of Elasticity and Plasticity, Warsaw, Poland; September 2 to September 13, 1962:  
Edward Saibel; Rensselaer Polytechnic Institute; \$822
- Conferences with Representatives of Japanese Scientific Societies, Tokyo and Hokkaido, Japan; July 1 to July 5, 1962:  
John R. Olive; American Institute of Biological Sciences; \$1,172
- Crystal Plasticity and Radiation Damage, Göttingen, Germany; October 9 to October 13, 1961:  
Doris Wilsdorf; University of Pennsylvania; \$600
- Cultural Development of the Maya, Burg-Wartenstein, Austria; September 6 to September 13, 1962:  
Wenner-Gren Foundation for Anthropological Research; \$3,500
- Delivering Lectures on the Integration of Partial Differential Equations, Paris, France; August 28 to September 14, 1961:  
Joaquin B. Diaz; University of Maryland; \$575
- Determining the Extent of Japanese Publications in Astronautics and Rocketry, Tokyo, Japan; March 12 to April 15, 1962:  
Irwin Hersey; American Rocket Society; \$1,639
- Economic Development of Agriculture in Soviet Bloc Countries, Budapest, Hungary; Warsaw, Poland and Moscow, Russia; July and August 1962:  
Earl O. Heady; Iowa State University; \$1,900
- European Symposium on Fresh Water from the Sea, Athens, Greece; May 31 to June 3, 1962:  
Donald A. Cowan; University of Dallas; \$910  
George A. Jeffrey; University of Pittsburgh; \$800
- EUSEC Meeting on Engineering Education, London, England; June 25 to June 30, 1962:  
W. Leighton Collins; University of Illinois; \$930  
Newman A. Hall; Yale University; \$820  
Ralph A. Morgen; Stevens Institute of Technology; \$810  
Glenn Murphy; Iowa State University; \$960
- Executive Committee, International Institute of Refrigeration, Paris, France; November 20 to November 22, 1961:  
Richard C. Jordan; University of Minnesota; \$525
- Faraday Society Discussion on the Structure of Ionic Melts, Liverpool, England; September 5 to September 7, 1961:  
Ole J. Kleppa; University of Chicago; \$565
- Florence Symposium on the Renaissance and Modern Science, Florence, Italy; June 20 to June 25, 1962:  
U.S. National Committee for the International Union for the History and Philosophy of Science; \$493
- General Assembly of the Division of the Logic, Methodology, and the Philosophy of Science and the Colloquium on Non-Aristotelian Logics, Helsinki, Finland; August 1962:  
U.S. National Committee for the International Union for History and Philosophy of Science; \$3,500
- IAMAP Ad Hoc Committee on Interaction Sea and Atmosphere, Marseilles, France; September 3 to September 5, 1961:  
Robert G. Fleagle; University of Washington; \$950
- Informal Conference on Photochemistry, Brussels, Belgium; June 18 to June 22, 1962:  
Kyle D. Bays; University of California; \$825
- Information Theory Symposium, Brussels, Belgium; September 3 to September 7, 1962:  
Richard C. Atkinson; Stanford University; \$820  
David J. Braverman; California Institute of Technology; \$806  
George L. Gerstein; Massachusetts Institute of Technology; \$520
- Inter-American Conference on Mathematical Education, Bogotá, Colombia; December 4 to December 9, 1961:  
Sanborn C. Brown; Massachusetts Institute of Technology; \$500
- Inter-American Cosmic Ray Symposium, La Paz, Bolivia; July 17 to July 27, 1962:  
Kenneth Grelsen; Cornell University; \$600  
Serge A. Korff; New York University; \$600  
John Linsley; Massachusetts Institute of Technology; \$650
- Inter-American Seminar on Educational Travel (IAESTE), Bogotá, Colombia; January 21 to January 25, 1962:  
Josef Wischeidt, Jr.; Engineers Joint Council; \$300

Intergovernmental Oceanographic Commission Conference, Paris, France; October 19 to October 27, 1961:

Robert L. Fisher; University of California; \$794

International Association of Scientific Hydrology, Athens, Greece; October 12 to October 21, 1961:

John W. Harshbarger; University of Arizona; \$1,050

International Colloquium on Information in Biology, Royaumont, France; Summer 1962:

Peter Lengvel; New York University; \$1,000

International Colloquium on Insect Pathology and Microbial Control, Paris, France; October 16 to October 20, 1962:

Edward A. Steinhilber; University of California; \$1,000

International Colloquium on Multilingualism in Africa, Brazzaville, Congo Republic; July 17 to July 21, 1962:

Frederic G. Cassidy; University of Wisconsin; \$1,025

David DeCamp; University of Texas; \$1,105

International Committee on Coal Petrology, Liege, Belgium; September 4 to September 16, 1962

Robert M. Kossanek; Illinois State Geological Survey; \$750

William Spackman; Pennsylvania State University; \$650

International Conference, Le Reve et Les Societes Humaines, Paris, France; June 18 to June 23, 1962:

Dorothy W. Eggan; \$610

International Conference on Crystal Lattice Defects, Kyoto, Japan; September 7 to September 12, 1962:

W. J. Fredericks; Stanford Research Institute; \$710

John J. Gilman; Brown University; \$1,000

Walter J. Moore; Indiana University; \$780

Erwin W. Mueller; Pennsylvania State University; \$1,100

Henry M. Otte; RIAS, Inc.; \$1,105

Allen B. Scott; Oregon State University; \$885

Roman Smoluchowski; Princeton University; \$1,025

Robb M. Thomson; University of Illinois; \$990

George D. Watkins; General Electric Research Laboratory; \$600

Sigmund Weissmann; Rutgers, The State University; \$1,125

George P. Williams, Jr.; Wake Forest College; \$550

Heinz G. F. Wilsdorf; Franklin Institute Laboratories; \$1,125

International Conference on Direct Interactions and Nuclear Reaction Mechanisms, Padua, Italy; September 3 to September 8, 1962:

Charles W. Drake, Jr.; Yale University; \$635

Richard M. Drisko; University of Pittsburgh; \$640

R. W. Fink; Marquette University; \$700

A. E. Glassgold; University of California; \$850

David Halliday; University of Pittsburgh; \$395

Harry D. Holmgren; University of Maryland; \$650

Jerry B. Marion; University of Maryland; \$650

Louis A. Rayburn; University of Georgia; \$705

Rogers C. Ritter; University of Virginia; \$670

William W. True; University of California; \$850

Robert M. Williamson; Michigan State University, Oakland; \$685

International Conference on Gas Discharges and Electricity Supply Industry, Leatherhead, England; May 7 to May 11, 1962:

John B. Thomas; Princeton University; \$486

International Conference on Heating, Ventilating and Air Conditioning, London, England; September 27 to October 4, 1961:

Tony C. Min; Auburn University; \$600

International Conference on Machine Translation of Languages and Applied Language Analysis, Teddington, England; September 5 to September 8, 1961:

Seymour B. Chatman; University of California; \$1,135

International Conference on Machine Translation of Languages and Applied Language Analysis, Teddington, England; September 5 to September 8, 1961; and Visit Groups Engaged in Mechanical Translation Research in the Soviet Union, Moscow, Russia; September 9 to September 30, 1961:

Kenneth E. Harper; University of California; \$1,492

International Conference on Magnetism and Crystallography, Kyoto, Japan; September 25 to September 30, 1961:

Benjamin C. Frazer; Brookhaven National Laboratory; \$550

James A. Ibers; \$550

International Conference on Microwave Measurement Techniques, London, England; September 6 to September 8, 1961:

Charles Susskind; University of California; \$764

International Conference on Relativity and Gravitation, Warsaw, Poland; July 25 to July 31, 1962:

Peter G. Bergmann; Syracuse University; \$710

S. Chandrasekhar; University of Chicago; \$765

Arthur B. Kamor; Syracuse University; \$710

International Conference on Scientific Information in the Field of Crystallography and Solid State Physics, Nishinomiya, Japan; October 3 to October 4, 1961:

Wilbur C. Bigelow; University of Michigan; \$1,561

J. D. H. Donnay; Johns Hopkins University; \$1,525

International Congress of Electroencephalography, Rome, Italy; September 7 to September 16, 1961:

Gian Emillo Chatrian; University Hosp.; \$800

Dominick P. Purpura; Columbia University; \$800

International Congress of Electroencephalography, Rome, Italy; September 7 to September 10, 1961; and International Congress of Neurology, Rome, Italy; September 11 to September 15, 1961:

Reginald G. Bickford; Mayo Foundation; \$1,000

International Congress of Mathematicians, Stockholm, Sweden; August 15 to August 22, 1962:

Howard Franklin Fehr; Teachers College, Columbia University; \$626

Mariano Garcia; University of Puerto Rico; \$750

Burton W. Jones; University of Colorado; \$701

John G. Kemeny; Dartmouth College; \$442

Kenneth O. May; Carleton College; \$725

Edwin E. Moise; Harvard University; \$604

Fazlollah M. Reza; Syracuse University; \$648

National Academy of Sciences-National Research Council; \$75,000

Patrick Suppes; Stanford University; \$835

Albert W. Tucker; Princeton University; \$624

International Congress of Neuropathology, Munich, Germany; September 4 to September 7, 1961; and International Congress of Electroencephalography, Rome, Italy; September 7 to September 13, 1961:

A. Earl Walker; Johns Hopkins University; \$800

International Council of Scientific Unions, Abstracting Board Meeting, Paris, France; July 11 to July 14, 1962:

Raymond A. Jensen; National Federation of Science Abstracting and Indexing Service; \$979

International Course for Geodetic Distance Measurements, Munich, West Germany; September 4 to September 12, 1961:

Milton O. Schmidt; University of Illinois; \$650

International Electrotechnical Commission, Baden-Baden, Germany; September 10 to September 15, 1962:

Robert O. Fehr; Cornell University; \$630

International Federation of Information Processing Congress, Munich, Germany; August 27 to September 1, 1962:

Allen Kent; Western Reserve University; \$739

Philip J. Stone, III; Harvard University; \$967

International Instrumentation Conference, Geneva, Switzerland; July 16 to July 18, 1962:

Richard J. Plano; Rutgers, The State University; \$575

International Machine Tool Design and Research Conference, Birmingham, England; September 24 to September 28, 1962:

Alfred O. Schmidt; Marquette University; \$615

International Mathematical Summer Center on Eigenvalues, Chieti, Italy; August 1 to August 10, 1962:

Alexander Weinstein; University of Maryland; \$600

International Ophthalmic Optical Congress, Berlin, Germany; May 28 to June 2, 1962: Meredith W. Morgan; University of California; \$900

Henry W. Hofstetter; Indiana University; \$705

Alfred A. Rosenbloom, Jr., Illinois College of Optometry; \$685

International Radiocarbon Conference, Cambridge, England; July 22 to July 28, 1962: Wallace S. Broecker; Columbia University; \$486

Paul E. Damon; University of Arizona; \$765

Richard Flint; Yale University; \$520

Edwin A. Olson; Whitworth College; \$823

Meyer Rubin; U.S. Geological Survey; \$520

International Road Federation, Fourth World Meeting, Madrid, Spain; October 14 to October 20, 1962:

Paul J. Claffey; Catholic University; \$557

International Symposium in Honor of Roger Bosovich, Dubrovnik, Yugoslavia; October 6 to October 11, 1961:

Churchill Eisenhart; National Bureau of Standards; \$705

L. Pearce Williams; Cornell University; \$730

Harry Woolf; Johns Hopkins University; \$180

International Symposium on Analytical Chemistry, Birmingham, England; April 9 to April 12, 1962:

Philip J. Elving; University of Michigan; \$550

Louis Gordon; Case Institute of Technology; \$550

Philip W. West; Louisiana State University; \$650

International Symposium on Carbohydrate Chemistry, Birmingham, England; July 16 to July 20, 1962:

Melville L. Wolfrom; Ohio State University; \$550

International Symposium on Color Centers in Alkali Halides, Stuttgart, Germany; August 21 to August 24, 1962:

W. Dale Compton; University of Illinois; \$700

Robert J. Friauf; University of Kansas; \$575

Ronald Fuchs; Iowa State University; \$660

Albert Gold; University of Illinois; \$625

International Symposium on Enzymic Activity of the Central Nervous System, Goteborg, Sweden; June 17 to June 21, 1962:

Claude F. Baxter; City of Hope Medical Center; \$1,000

Doris H. Clouet; New York State Research Institute; \$500

Pierre M. Dreyfus; Massachusetts General Hospital; \$750

International Symposium on Equatorial Aeronomy, Huaychulo, Peru; September 18 to September 26, 1962:

Joseph Kaplan; University of California; \$700

International Symposium on Growth and Development of Archegoniate Plants, London, England; April 5 to April 6, 1962:

Max Ward; Glenville State College; \$570

International Symposium on History of Neurology, Varenna, Italy; August 29 to September 1, 1961; International Brain Research Organization, Paris, France; September 3 to September 5, 1961; Fifth International Congress of EEG and Clinical Neurophysiology, Rome, Italy; September 7 to September 13, 1961; and International Colloquium on Mechanisms of Sensory-Motor Integration, Pisa, Italy; September 18 to September 22, 1961:

H. W. Magoun; University of California; \$800

International Symposium on Inorganic Polymers, Nottingham, England; July 18 to July 21, 1961:

John C. Ballar, Jr.; University of Illinois; \$100

International Symposium on Molecular Structure and Spectroscopy, Tokyo, Japan; September 10 to September 15, 1962:

A. C. Albrecht; Cornell University; \$1,125

George D. Blyholder; University of Arkansas; \$1,075

Columba Curran; University of Notre Dame; \$1,000

Joseph de Heer; University of Colorado; \$1,000

David M. Dennison; University of Michigan; \$1,125

William H. Fletcher; University of Tennessee; \$1,175

Arthur A. Frost; Northwestern University; \$1,090

Theodore D. Goldfarb; State University of New York; \$1,125

H. S. Gutowsky; University of Illinois; \$1,100

George R. Harrison; Massachusetts Institute of Technology; \$1,150

Dudley R. Herschbach; University of California; \$860

Samuel Krimm; University of Michigan; \$1,125

Victor W. Laurie; Stanford University; \$860

Bruno Linder; Florida State University; \$1,225

Richard C. Lord; Massachusetts Institute of Technology; \$1,150

Sean P. McGlynn; Louisiana State University; \$1,085

Foil A. Miller; Mellon Institute; \$1,100

Kazuo Nakamoto; Illinois Institute of Technology; \$1,090

Chester T. O'Konski; University of California; \$1,125

Willis B. Person; State University of Iowa; \$1,100

Paul N. Schatz; University of Virginia; \$750

Richard H. Schwendeman; Michigan State University; \$1,020

Robert C. Taylor; University of Michigan; \$750

E. Bright Wilson, Jr.; Harvard University; \$1,150

M. Kent Wilson; Tufts University; \$1,150

Carl E. Wulfman; University of the Pacific; \$860

International Symposium on Relay Systems Theory and Finite Automata, Moscow, Russia; September 24 to October 2, 1962:

E. J. McCluskey, Jr.; Princeton University; \$800

International Symposium on Soil-Plant-Atmosphere Water Relations and the Symposium on Environmental Control of Plant Growth and Micrometeorology, Canberra and Melbourne, Australia; August 22 to September 5, 1962:

Sterling A. Taylor; Utah State University; \$950

Frederick P. Zschelle, Jr.; University of California; \$1,050

International Symposium on Stratospheric and Mesospheric Circulation, West Berlin, Germany; August 20 to August 31, 1962:

Werner Schwerdtfeger; University of Wisconsin; \$700

International Symposium on the Application of Automatic Control in Prosthetics Design, Opatjka, Yugoslavia; August 27 to September 1, 1962:

James B. Reswick; Case Institute of Technology; \$675

International Symposium on the Dynamics of Satellites, Paris, France; May 28 to May 31, 1962:

Robert M. L. Baker, Jr.; University of California; \$805

Samuel Herrick; University of California; \$525

International Symposium on the Organic Chemistry of Natural Products, Brussels, Belgium; June 12 to June 15, 1962:

Nelson J. Leonard; University of Illinois; \$625

Gloria G. Lyle; University of New Hampshire; \$550

Harry H. Wasserman; Yale University; \$550

International Symposium on Volcanology, Tokyo, Japan; May 9 to May 19, 1962:

Roy A. Bailey; U.S. Department of the Interior; \$1,100

Robert W. Decker; Dartmouth College; \$1,100

Armand J. Eardley; University of Utah; \$775

Robert B. Forbes; University of Alaska; \$750

Irving Friedman; U.S. Department of the Interior; \$1,100

John J. Naughton; University of Hawaii; \$625

E. F. Osborn; Pennsylvania State University; \$1,100

Willard H. Parsons; Wayne State University; \$1,100

Donald William Peterson; U.S. Geological Survey; \$800

J. F. Schairer; Carnegie Institute of Washington; \$1,100

Harry W. Smedes; U.S. Department of the Interior; \$1,100

David Robert Wones; U.S. Department of the Interior; \$1,100

Hatten S. Yoder, Jr.; Carnegie Institute of Washington; \$1,100

International Symposium on Wood Destruction by Fungi, Berlin, Germany; May 21 to May 31, 1962:

Arthur B. Anderson; University of California; \$850

International Union of Forest Research Organizations, Vienna, Austria; September 9 to September 22, 1961:

M. Victor Bilan; Stephen F. Austin State College; \$1,200

Joint Meetings of the Regional Science Association and the Commission on Methods of Economic Regionalization of the International Geographical Union, Hague, Netherlands; September 4 to September 9, 1961:

Edward L. Ullman; Washington University; \$630

Mediterranean Regional Field Mission in Seismology and Earthquake Engineering, Rome, Italy; March to May 1962:

Ray William Clough; University of California; \$1,500

Darrel Linehan; Weston Observatory; \$3,100

Meeting for the Study and Comparison of Droplet Collectors, Clermont-Ferrand, France; November 6 to November 11, 1961:

Paul B. MacCready, Jr.; Atmospheric Research Group; \$1,200

Meeting of Experts in the Field of Metal Forming, Paris, France; November 9 to November 10, 1961:

E. G. Thomsen; University of California; \$950

Meeting of the Bureau of the International Scientific Film Association, Paris, France; February 21 to February 25, 1962:

Randall McVay Whaley; Wayne State University; \$1,011

Meeting of the Commission on Ancient Maps of the International Geographical Union, Florence, Italy; October 23 to October 25, 1961:

George Kish; University of Michigan; \$550

Meeting of the Commission on National Atlases of the International Geographical Union, Budapest, Hungary; September 7 to September 10, 1962:

Carleton P. Barnes; U.S. Department of Agriculture; \$675

Meeting of the High Polymer Research Group, Moretonhampstead, Devon, England; May 14 to May 18, 1962:

Michael Szwarc; State University College of Forestry at Syracuse University; \$500

Meeting of the Institute of Mathematical Statistics, Dublin, Ireland; September 3 to September 7, 1962:

Albert H. Bowker; Stanford University; \$750

Gerald J. Lieberman; Stanford University; \$750

Ingram Olkin; Stanford University; \$750

Meeting of the Society for the Study of Human Biology, London, England; November 17 to November 19, 1961:

Bertram S. Kraus; University of Washington; \$665

Meeting of the Working Group for the Upper Mantle Project, Paris, France; March 19 to March 25, 1962:

R. P. Meyer; University of Wisconsin; \$700

Meeting on Geomorphology and Land Use Mapping, Athens, Greece; September 15 to September 25, 1962:

Richard F. Logan; University of California; \$1,150

Meetings to Discuss Exchange of Scientific Information Between Brazil and the United States, with Particular Reference to a Possible Survey of Brazilian Scientific Information Activities, Rio de Janeiro and Sao Paulo, Brazil; August 20 to September 30, 1961:

Ronald Hilton; Stanford University; \$1,242

NATO Advanced Study Institute: Asymptotic Distribution, Breukelen, Netherlands; August 1 to August 11, 1962:

Henry M. Schaerf; Washington University; \$640

NATO Advanced Study Institute: Automatic Translation of Languages, Venice, Italy; July 15 to July 31, 1962:

Victoria A. Fromkin; University of California; \$730

Sheila A. Greibach; Harvard University; \$620

Amelia Janiotis; Wayne State University; \$150

Harry H. Josselson; Wayne State University; \$150

Richard L. Venezky; Cornell University; \$460

NATO Advanced Study Institute: Combinatorial Methods in Probability Theory and Algebraic Topology, Aarhus, Denmark; August 1 to August 10, 1962:

Edgar Reich; University of Minnesota; \$530

NATO Advanced Study Institute: Dispersion and Absorption of Sound by Molecular Processes, Varenna, Italy; August 6 to August 18, 1962:

Warren P. Mason; Bell Telephone Laboratories; \$470

C. Leonard O'Connor; Manhattan College; \$610

NATO Advanced Study Institute: Elementary Particles, Varenna, Italy; July 23 to August 4, 1962:

Rafe A. Burnstein; University of Maryland; \$630

George Gidal; University of California; \$850

NATO Advanced Study Institute: Evaluation of Stars, Varenna, Italy; August 20 to September 1, 1962:

Marshal H. Wrubel; Indiana University; \$530

NATO Advanced Study Institute: Excitations in Semi-conductors: Polarons and Excitons, St. Andrews, Fife, Scotland; July 30 to August 18, 1962:

Donald H. Kobe; Ohio State University; \$520

William H. Taylor, II; Princeton University; \$430

George Whitfield; University of Illinois; \$450

NATO Advanced Study Institute: Excitations in Semi-conductors: Polarons and Excitons, St. Andrews, Scotland; June 25 to June 30, 1962; and NATO Advanced Study Institute: Many-body Problems and High Energy Physics, Cargese, Corsica; July 30 to August 18, 1962:

David Pines; University of Illinois; \$470

NATO Advanced Study Institute; Geophysics, Les Houches, France; July 2 to August 25, 1962:

Barbara W. Abraham; Radcliffe College; \$300

NATO Advanced Study Institute: Group Theoretical Methods and Concepts in the Theory of Elementary Particles, Istanbul, Turkey; July 16 to August 4, 1962:

Sidney Coleman; Harvard University; \$770

Kenneth Nordtvedt, Jr.; Stanford University; \$1,060

NATO Advanced Study Institute: Imperfections in Solids, Rhodes, Greece; July 2 to July 20, 1962:

Ronald L. Odle; University of Illinois; \$860

NATO Advanced Study Institute: International Conference on Elementary Particles, Bergen, Norway; May 28 to June 15, 1962:

William C. Ramsay; University of California; \$810

Valentine L. Telegdi; University of Chicago; \$480

Sam B. Treiman; Princeton University; \$430

NATO Advanced Study Institute: Many-body Problems and High Energy Physics, Cargèse, Corsica; July 1 to July 10, 1962:

John Bardeen; University of Illinois; \$480

NATO Advanced Study Institute: North-Atlantic Biotae and Their History, Reykjavik, Iceland; July 12 to July 25, 1962:

Margaret B. Davis; University of Michigan; \$440

Alton M. Harvill, Jr.; Murray State College; \$490

Bruce C. Heezen; Columbia University; \$280

Knut J. Norstog; Wittenberg University; \$460

NATO Advanced Study Institute on Feldspars, Oslo, Norway; June 20 to June 30, 1962:

Bruce E. Brown; University of Wisconsin; \$480

Phillip M. Orville; Cornell University; \$450

David B. Slemmons; University of Nevada; \$630

NATO Advanced Study Institute: Plasma Theory, Varenna, Italy; July 9 to July 21, 1962:

Harold P. Furth; University of California; \$670

Nicholas A. Krall; John Jay Hopkins Laboratory for Pure and Applied Science; \$860

Bruce B. Robinson; University of California; \$860

Peter A. Sturrock; Stanford University; \$680

NATO Advanced Study Institute: Radio-Astronomy, Manchester, England; June 26 to July 7, 1962:

John R. Dickel; University of Michigan; \$560

Edward J. Fremouw; University of Alaska; \$800

NATO Advanced Study Institute: Scientific Photography, Liege, Belgium; September 10 to September 22, 1962:

Jack Fajer; Brandeis University; \$540

Michael M. Mizianty; Lehigh University; \$550

Felix Viro; Photo and Repro Group of GAF; \$660

NATO Advanced Study Institute: Solid State Physics, Ghent, Belgium; July 23 to August 2, 1962:

Norman N. Axelrod; University of Delaware; \$540

W. Beall Fowler; Argonne National Laboratory; \$600

Kay K. Kanazawa; University of Illinois; \$640

Howard K. Rockstad; University of Illinois; \$650

NATO Advanced Study Institute: Space Exploration and the Solar System, Varenna, Italy; June 4 to June 16, 1962:

Giovanni Lanza; Northeastern University; \$590

Victor H. Regener; University of New Mexico; \$800

Howard L. Welsberg; Brandeis University; \$590

NATO Advanced Study Institute: Stellar Evolution, Varenna, Italy; August 20 to September 1, 1962:

Maurice M. Shapiro; U.S. Naval Research Laboratory; \$490

NATO Advanced Study Institute: Stratospheric and Mesospheric Circulation, West Berlin, Germany; August 20 to August 31, 1962:

Jullius London; University of Colorado; \$580

NATO Advanced Study Institute: Study of Upper Atmosphere Phenomena by Satellites and Radio Astronomical Methods, Corfu, Greece; June 18 to July 2, 1962:

Hilde Kallmann-Bijl; University of California; \$780

James W. Warwick; University of Colorado; \$750

NATO International Spring School of Physics: Cybernetics of Neural Processes, Naples, Italy; April 26 to May 13, 1962:

Robert W. Doty; University of Rochester; \$500

Celeste Faye McCollough; Oberlin College; \$670

George W. Zopf, Jr.; University of Illinois; \$520

OECD Seminar on Research Management, Copenhagen, Denmark; September 25 to September 29, 1961:

Schrade Radtke; American Zinc Association, Lead Industries Association; \$917

OECD Seminar on The Reform of the Teaching of Biology, La Tour de Peilz, Switzerland; September 4 to September 14, 1962:

Tracy M. Sonneborn; Indiana University; \$890

Organic Chemistry Study Group, Caen, France; September 5 to September 12, 1962:

Gilbert Stork; Columbia University; \$580

Organic Geochemistry Group, Milan, Italy; September 10 to September 12, 1962:

Egon T. Degens; California Institute of Technology; \$900

Peter H. Given; Pennsylvania State University; \$515

- Bartholomew Nagy; Fordham University; \$600  
 Carl H. Oppenheimer; University of Miami; \$750
- Pugwash Conference, London, England; September 3 to September 7, 1962:  
 Robert B. Brode; University of California; \$775
- Pyridoxal Symposium, IUB; Rome, Italy; October 1962:  
 American Society of Biological Chemists, Inc.; \$12,300
- Regional Conference of Southeast Asian Geographers, Kuala Lumpur, Malaya; April 2 to April 23, 1962:  
 Joseph Earle Spencer; University of California; \$1,100  
 M. Gordon Wolman; Johns Hopkins University; \$1,800
- Research Institute in Group Theory, Oberwolfach, Germany; October 9 to October 14, 1961:  
 Donald Gordon Higman; University of Michigan; \$450  
 Daniel R. Hughes; University of Michigan; \$600
- Research Vessel Forum, Tokyo, Japan; September 18 to September 30, 1961:  
 Wayne V. Burt; Oregon State University; \$800
- The Rutherford Jubilee International Conference, Manchester, England; September 4 to September 8, 1961:  
 Harry D. Holmgren; University of Maryland; \$600
- Seminar on Latin American Area Seismology and Earthquake Engineering, Santiago, Chile; December 5 to December 12, 1961:  
 Perry Byerly; University of California; \$1,500  
 Jack E. Oliver; Columbia University, Palisades; \$1,350
- Seminar on Theoretical Physics, Trieste, Italy; July 16 to August 25, 1962:  
 James S. Ball; University of California; \$700  
 Nina Byers; University of California; \$800
- Series of Lectures at Academy of Science of USSR and Visit Laboratories in the Soviet Union; October 1 to October 22, 1962:  
 Joseph Martin; Pennsylvania State University; \$830
- Solid State Colloquium, Rio de Janeiro, Brazil; August 1 to August 20, 1962:  
 Walter J. Moore; Indiana University; \$700
- Solvay Congress, Brussels, Belgium; October 9 to October 14, 1961:  
 Richard P. Feynman; California Institute of Technology; \$800  
 Julian Schwinger; Harvard University; \$525
- Some Aspects of Electrochemistry, New Delhi, India; October 6 to October 7, 1961:  
 Raymond M. Fuoss; Yale University; \$1,175
- Soviet-American Exchange of Scientists and Travel to Meetings in U.S.S.R., Italy and Hungary:  
 University of California; \$7,500
- Symposium in Commemoration of the Fiftieth Anniversary of the Discovery of X-ray Dif-
- fraction and of Crystal Structure Analysis, Munich, Germany; July 25 to July 27, 1962:  
 Charles W. Burnham; Carnegie Institute of Washington; \$810  
 Gunnar Kullerud; Carnegie Institute of Washington; \$810  
 Martin E. Straumann; Missouri School of Mines and Metallurgy; \$580
- Symposium of Spectroscopists, Bombay, India and Indian Science Congress, Cuttack, India; December 20, 1961 to January 20, 1962:  
 Robert S. Mulliken; University of Chicago; \$2,000
- Symposium on Arboviruses, Rio de Janeiro, Brazil; September 11 to September 14, 1961:  
 William L. Pond; New England Institute for Medical Research; \$950
- Symposium on Biological Organization at Cellular and Supra-Cellular Levels, Varenna, Italy; September 24 to September 27, 1962:  
 Renato Dulbecco; California Institute of Technology; \$900  
 James C. King; Columbia University; \$600  
 A. A. Moscona; University of Chicago; \$700  
 David L. Nanney; University of Illinois; \$800
- Symposium on Brain Oedema, Vienna, Austria; Organizational Meeting to Plan the Next International Electroencephalography Congress, Wassenaar, The Netherlands; International Physiology Congress, Leiden, The Netherlands; Symposium on Neurochemical Regulators of Brain Activity, Paris, France; and Symposium on the History of the Brain, Munster, Germany; August and September 1962:  
 Mary A. B. Brazier; University of California Medical Center; \$1,200
- Symposium on Cavitation, Sendai, Japan; September 2 to September 7, 1962:  
 John P. Breslin; Stevens Institute of Technology; \$291
- Symposium on Cell Growth and Cell Division, Liege, Belgium; May 19 to May 24, 1962:  
 Seymour Gelfant; Syracuse University; \$600  
 Lester Goldstein; University of Pennsylvania; \$550  
 Henry I. Hirshfeld; New York University; \$550  
 Thomas W. James; University of California; \$800  
 Daniel Mazia; University of California; \$835  
 D. M. Prescott; Oak Ridge National Laboratory; \$600  
 Herbert Stern; University of Illinois; \$650  
 Hewson Swift; University of Chicago; \$600  
 J. Herbert Taylor; Columbia University; \$550
- Symposium on Cellular Basis and Aetiology of Late Somatic Effects of Ionizing Radiation, London, England; March 27 to March 30, 1962:  
 George W. Casarett; University of Rochester; \$800  
 Jacob Furth; Columbia University; \$500  
 Hermann Lisco; Argonne National Laboratory; \$600



- Hermann Joseph Muller; Indiana University; \$500
- Symposium on Chemoreceptors, Stockholm, Sweden; September 3 to September 5, 1962:
- Robert M. Benjamin; University of Wisconsin; \$200
- A. J. de Lorenzo; Johns Hopkins University; \$650
- Vincent G. Dethier; University of Pennsylvania; \$630
- Robert P. Erickson; Duke University; \$690
- David R. Evans; Johns Hopkins University; \$650
- Irving Y. Fishman; Grinnell College; \$790
- Robert C. Gesteland; Massachusetts Institute of Technology; \$610
- Bruce P. Halpern; State University of New York; \$650
- Morley R. Kare; North Carolina State College; \$690
- Maxwell M. Mozell; State University of New York; \$650
- Ross Maris Pangborn; University of California; \$860
- Symposium on Climatic Change, Rome, Italy; October 2 to October 7, 1961:
- Jacob Bjerknes; University of California; \$1,025
- Symposium on Clusters and Stellar Evolution, Greenwich, England; August 7 to August 10, 1962:
- Robert R. Brownlee; University of California; \$783
- Olin J. Eggen; California Institute of Technology; \$790
- Louis G. Henyey; University of California; \$850
- George H. Herbig; University of California; \$850
- Ivan R. King; University of California; \$550
- Martin Schwarzschild; Princeton University; \$500
- Allan R. Sandage; Mt. Wilson, Palomar Observatory; \$850
- Merle F. Walker; University of California; \$850
- Symposium on Continental Erosion, Bari, Italy; October 1 to October 6, 1962:
- Lucien M. Brush, Jr.; State University of Iowa; \$850
- Symposium on Crack Propagation, Cranfield, England; September 25 to September 29, 1961:
- James P. Romualdi; Carnegie Institute of Technology; \$540
- Max L. Williams, Jr.; California Institute of Technology; \$755
- Symposium on Electromagnetic Theory and Antennas, Copenhagen, Denmark; June 25 to June 30, 1962:
- B. A. Auld; Stanford University; \$794
- Sidney Borowitz; New York University; \$562
- Dimitri S. Bugnolo; Columbia University; \$562
- Donald A. Darling; University of Michigan; \$621
- Georges A. Deschamps; University of Illinois; \$666
- Hideya Gamo; IBM Corporation; \$562
- J. Mayo Greenberg; Rensselaer Polytechnic Institute; \$584
- Albert E. Heins; University of Michigan; \$621
- Edward C. Jordan; University of Illinois; \$666
- Samuel N. Karp; New York University; \$575
- Irvin W. Kay; New York University; \$325
- Nicholas D. Kazarinoff; University of Michigan; \$621
- Ronald W. P. King; Harvard University; \$553
- Nathan Marcovitz; Polytechnic Institute of Brooklyn; \$562
- Arthur A. Oliner; Polytechnic Institute of Brooklyn; \$562
- Martin A. Plonus; Northwestern University; \$562
- Charles C. Rogers; Rose Polytechnic Institute; \$672
- V. H. Rumsey; University of California; \$794
- Emil Wolf; University of Rochester; \$600
- Symposium on Engineering Aspects of Environmental Control, Melbourne, Australia; August 31 to September 5, 1962:
- S. H. Cameron; University of California; \$1,050
- Symposium on Functional Anatomy of the Cardiovascular System, London, England; November 28 to November 29, 1962:
- Donald F. M. Bunce, II; Tulane University School of Medicine; \$840
- Symposium on General Topology and Its Relations to Modern Analysis and Algebra, Prague, Czechoslovakia; September 1 to September 8, 1961:
- R. D. Anderson; Louisiana State University; \$725
- John L. Kelley; University of California; \$875
- Barry Mazur; Harvard University; \$650
- Symposium on Ground Water in Arid Regions, Athens, Greece; October 12 to October 20, 1961:
- George B. Maxey; Illinois State Geological Survey; \$900
- David K. Todd; University of California; \$750
- Symposium on Ignimbrites and Hyaloclastites, Catania, Sicily, Italy; September 15 to September 24, 1961:
- Earl F. Cook; University of Idaho; \$825
- Charles J. Vitaliano; Indiana University; \$800
- Seminar on Immune Tolerance Towards Specific Antigens and Its Implication in Relation to Present Theories of Antibody Synthesis, Royumont, France; June 24 to June 28, 1962:
- Richard T. Smith; University of Florida; \$650
- William O. Weigle; Scripps Clinic & Research Foundation; \$800
- Harold R. Wolfe; University of Wisconsin; \$720
- Symposium on Insect Polymorphism, London, England; September 20 to September 25, 1961:
- Theodosius Dobzhansky; Columbia University; \$800

Symposium on Ionospheric Soundings in the IGY/IGC, Nice, France; December 11 to December 16, 1961:

Erwin R. Schmerling; Pennsylvania State University; \$650

Symposium on Mammalian Tissue Culture and Cytology, Sao Paulo, and Symposium on Radiobiology, Rio de Janeiro, Brazil; October 1962:

Harry Eagle; Yeshiva University; \$950  
L. D. Hamilton; Sloan-Kettering Institute for Cancer Research; \$630

David A. Hungerford; Institute for Cancer Research; \$800

Henry S. Kaplan; Stanford University; \$775

Paul S. Moorhead; Wistar Institute; \$700

Susumu Ohno; City of Hope Medical Center; \$900

Jack Schultz; Institute for Cancer Research; \$950

Symposium on Mechanisms of Immunological Tolerance, Prague, Czechoslovakia, November 8 to November 10, 1961:

John M. Converse; New York University; \$145

Nathan Kaliss; Roscoe B. Jackson Memorial Laboratory; \$555

Andrew A. Kandutsch; Roscoe B. Jackson Memorial Laboratory; \$145

Carlos Martinez; University of Minnesota; \$605

Ray D. Owen; California Institute of Technology; \$665

Phillip Y. Paterson; New York University; \$450

Richmond T. Prehn; University of Washington; \$645

Paul S. Russell; Columbia University; \$145

Eli Sercarz; Harvard University; \$470

Richard T. Smith; University of Florida; \$585

Chandler A. Stetson; New York University; \$470

Paul Terasaki; University of California; \$725

Symposium on Non-Linear Oscillations, Kiev, U.S.S.R.; September 12 to September 18, 1961:

Henry A. Antosiewicz; University of Southern California; \$1,200

Earl A. Coddington; University of California; \$1,075

Stephen P. Diliberto; University of California; \$1,075

Jack K. Hale; Martin Company; \$950

Solomon Lefschetz; Martin Company; \$950

Warren S. Loud; University of Minnesota; \$1,000

Lawrence Markus; University of Minnesota; \$525

Stephen Smale; University of California; \$1,050

Wolfgang R. Wasow; University of Wisconsin; \$975

Symposium on Optimizing and Self-Adaptive Systems Theory, Rome, Italy; April 26 to April 28, 1962:

Rudolf F. Drenick; Polytechnic Institute of Brooklyn; \$140

Yao Tzu Li; Massachusetts Institute of Technology; \$160

John G. Truxal; Polytechnic Institute of Brooklyn; \$140

Symposium on Radiobiology, Rio de Janeiro, Brazil, and Symposium on Tissue Culture and Cytology, Sao Paulo, Brazil; October 22 to October 31, 1962:

Stanley M. Gartler; University of Washington; \$900

Symposium on Repair From Genetic Radiation Damage and Differential Radiosensitivity in Germ Cells, Leiden, Holland; August 16 to August 19, 1962:

H. Bentley Glass; Johns Hopkins University; \$600

Philip T. Ives; Amherst College; \$600

Liane Brauch Russell; Oak Ridge National Laboratory; \$700

William Lawson Russell; Oak Ridge National Laboratory; \$700

Symposium on Second Order Effects in Elasticity, Plasticity and Hydrodynamics, Haifa, Israel; April 22 to April 27, 1962:

William P. Graebel; University of Michigan; \$920

Paul Lieber; University of California; \$1,150

Daniel Rosenthal; University of California; \$877

Symposium on Space Communication Research, Paris, France; September 18 to September 22, 1961:

Arthur H. Waynick; Pennsylvania State University; \$565

Symposium on Speciation in the Sea, Plymouth, England; September 27 to September 29, 1961:

Edward C. Raney; Cornell University; \$726

Symposium on the Cycle and the Isotopic Composition of Atmospheric Gases, Utrecht, The Netherlands; August 8 to August 14, 1962:

Richard D. Cadle; Stanford Research Institute; \$900

Symposium on the Durability of Concrete, Prague, Czechoslovakia; August 1 to August 6, 1961:

Merit P. White; University of Massachusetts; \$615

Symposium on the Physiological Effect of High Altitude, Interlaken, Switzerland; September 18 to September 21, 1962:

Robert W. Elsner; University of California; \$500

George A. Feigen; Stanford University; \$1,100

Symposium on the Primates, London, England; April 12 to April 14, 1962:

Richard John Andrew; Yale University; \$500

Neil C. Tappen; Tulane University School of Medicine; \$630

Symposium on the Primates, London, England; Symposium Primatologicum, Giessen, Germany; To Study Primate Collections, Copenhagen, Stockholm, London, Munich and Leiden; April 1962:

George Emil Erikson; Harvard Medical School; \$700

Symposium on the Programming and Utilization of Research Reactors, Vienna, Austria; October 16 to October 20, 1961:

Robert G. Cochran; Agricultural and Mechanical College of Texas; \$795

- Henry J. Gomberg; University of Michigan; \$642  
 Glenn Murphy; Iowa State University; \$728  
 Leonard Reiffel; Armour Research Foundation; \$674  
 Forrest J. Remick; Pennsylvania State University; \$685  
 Theos J. Thompson; Massachusetts Institute of Technology; \$572
- Symposium on the Research of Influence of Psychotropic Drugs on Higher Nervous Functions, Prague, Czechoslovakia; October 31 to November 3, 1961:  
 Bernard Lawrence Busfield, Jr.; Massachusetts Mental Health Center; \$910  
 C. B. Ferster; Indiana University School of Medicine; \$1,260  
 James Olds; University of Michigan; \$1,000  
 Murray Sidman; Walter Reed Army Institute of Research; \$690
- Symposium on the Structure of Natural Products, Rio de Janeiro, Brazil; November 6 to November 10, 1961:  
 Ernest Wenkert; University of California; \$800
- Symposium on the Variations of Existing Glaciers, Obergurgl, Austria; September 10 to September 18, 1962:  
 Kermit B. Bengtson; University of Washington; \$900  
 Richard P. Goldthwait; Ohio State University; \$690  
 G. William Holmes; U.S. Geological Survey; \$650  
 Troy L. Pewe; University of Alaska; \$950
- Symposium on Theoretical Interpretations of Upper Atmosphere Emissions, Paris, France; June 25 to June 29, 1962:  
 John C. Brandt; University of California; \$1,100  
 Sydney Chapman; High Altitude Observatory; \$71  
 Kenneth C. Clark; University of Washington; \$199  
 Thomas M. Donahue; University of Pittsburgh; \$700  
 Paul J. Kellogg; University of Minnesota; \$822  
 Reginald E. Newell; Massachusetts Institute of Technology; \$95  
 John F. Noxon; Harvard University; \$620  
 Manfred H. Rees; University of Colorado; \$850  
 Walter Roth; Armour Research Foundation of Illinois Institute of Technology; \$625  
 Brian P. Sandford; Arctic Institute of North America; \$625  
 Takao Tohmatsu; National Bureau of Standards; \$850  
 Robert A. Young; Stanford Research Institute; \$900
- Symposium on Theoretical Organic Chemistry; Leningrad, U.S.S.R.; December 12 to December 15, 1961:  
 William von Eggers Doering; Yale University; \$747  
 John D. Roberts; California Institute of Technology; \$747  
 R. B. Woodward; Harvard University; \$693
- Symposium on Tissue Transplantation Problems, Santiago, Chile; August 30 to September 2, 1961:  
 Milton N. Goldstein; Roswell Park Memorial Institute; \$1,000
- Symposium on Topology and Its Methods in Other Mathematical Disciplines, Prague, Czechoslovakia; September 1 to September 9, 1961; and Symposium on Scientific Research and Development in a Modern Industrial Economy, Dusseldorf, Germany; September 27 to October 3, 1961:  
 Richard Courant; New York University; \$850
- Symposium on Zooplankton Production, Copenhagen, Denmark; October 8 to October 10, 1961:  
 Karl Banse; University of Washington; \$1,136  
 W. T. Edmondson; University of Washington; \$1,136  
 Charles S. Yentsch; Woods Hole Oceanographic Institute; \$851
- Technical Committee 24—Electric and Magnetic Magnitudes and Units of IEC, Bucharest, Roumania; June 28 to July 3, 1962:  
 Carl C. Chambers; University of Pennsylvania; \$740
- To Deliver a Series of Lectures in Poland; June 1962:  
 Jerzy R. Moszynski; Case Institute of Technology; \$720
- To Determine the Scientific and Engineering Aspects of Corrosion Work, U.S.S.R.; Summer 1962:  
 National Association of Corrosion Engineers; \$6,500
- To Discuss the Photochemistry of Condensed Systems with Foreign Experts in France, U.S.S.R., Sweden, Holland, and England; March 20 to June 16, 1962:  
 Robert Livingston; University of Minnesota; \$900
- To Engage in Research in Social Psychology, The Netherlands, West Germany, France, and Italy; March and May 1962:  
 Theodore R. Sarbin; University of California; \$400
- To Perform Research in Soil Mechanics and Visit Research Centers, Denmark, Finland, Sweden, Germany, and Switzerland; June 1962 to January 1963:  
 James N. Luthin; University of California; \$790
- Translation Program of the American Geological Institute, Leningrad, and Moscow, U.S.S.R.; September 1 to December 31, 1961:  
 Herbert E. Hawkes; University of California; \$1,573
- Translation Project of the Arctic Institute of North America, Moscow, Leningrad, Irkutsk, and Yakutsk, U.S.S.R.; June 15 to July 7, 1962:  
 Henry N. Michael; Temple University; \$2,415
- UNESCO Seminar on Physical and Natural Sciences, Gauting/Munchen, West Germany; May 11 to May 16, 1962:  
 Watson Davis; Science Service; \$600
- United Nations Conference on New Sources of Energy, Rome, Italy; August 21 to August 31, 1961:  
 Harry E. Thomason; Office of the Chief Signal Officer; \$900

<p><b>U.S. Participation in UNESCO Latin American Regional Field Mission in Seismology and Earthquake Engineering, Santiago, Chile; October 1961 to December 1961:</b>  Daniel Lineham; Weston Observatory; \$1,500</p> <p><b>Use of the Computer in Anthropology, Burg-Wartenstein, Austria; June 20 to June 29, 1962:</b>  Wenner-Gren Foundation for Anthropological Research; \$3,500</p> <p><b>Visiting Protein Chemistry Laboratories in Copenhagen, Denmark; Moscow, Leningrad, and Kiev, U.S.S.R.; and Prague, Czechoslovakia; 1962:</b>  Charlotte Green Schellman; University of Oregon; \$1,200</p> <p><b>Visiting the Czechoslovak Academy of</b></p>	<p><b>Science, Prague, Czechoslovakia; October 15 to October 22, 1961:</b>  Herman Pines; Northwestern University; \$700</p> <p><b>Visits to European and Scandinavian Laboratories; September, 1962:</b>  James B. Lackey; University of Florida; \$240</p> <p><b>World Federation of Neurology, Como, Italy; August 29 to September 6, 1961; International Electroencephalography Congress, Rome, Italy; September 7 to September 13, 1961; and International Colloquium on Mechanisms of Sensory-Motor Integration, Pisa, Italy; September 18 to September 22, 1961:</b>  Mary A. B. Brazier; University of California; \$800</p>
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