

'77-'78

notre dame report

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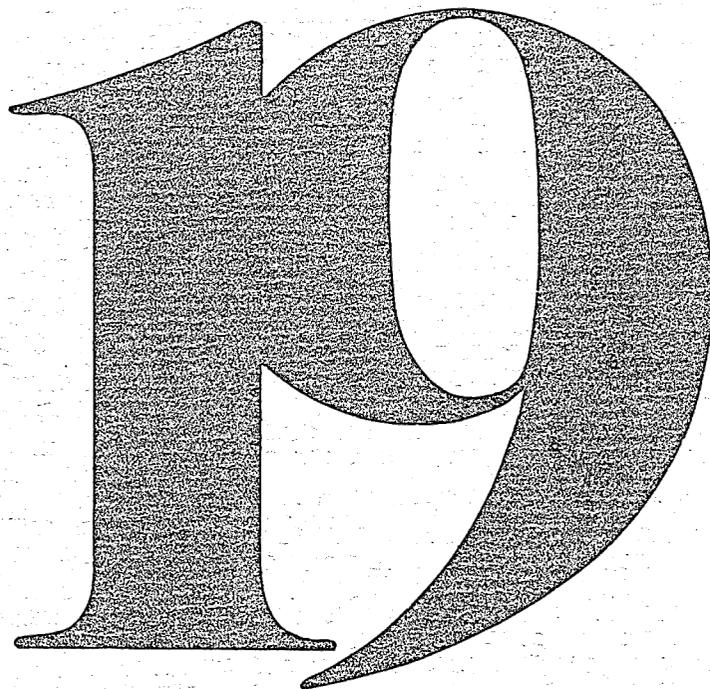
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the university

Tuition Increase

Notre Dame has increased its tuition \$300 effective next academic year. Rev. Theodore M. Hesburgh, C.S.C., president, said the institution's trustees had raised tuition to balance the 1979 approved \$74,362,900 budget. Undergraduates will now pay \$3,780 a year and graduate students \$3,600. There will also be a \$50 increase in room and board fees, bringing that total to an average of \$1,400 yearly.



'Campaign for ND' Gifts

Notre Dame has received a gift of \$250,000 from Walter R. Beardsley for the Walter R. Beardsley Endowment for Modern Art, enabling the University to display many of its 20th century treasures that have been relegated to vaults because of the inadequacy of present facilities. The Beardsley Gallery will occupy half of the second floor of the Snite Museum of Art, a \$2 million expansion of the present O'Shaughnessy Hall gallery scheduled to open next year.

Beardsley was chairman of the Board of Miles Laboratories, Elkhart, Ind., until 1973. He became a charter member of the Art Gallery's Advisory Council in 1968, and for the last decade he has been a frequent benefactor of the Art Gallery's modern art programs.

Foreign Language Exam

The Graduate Foreign Language Reading Examination will be given by the Department of Modern and Classical Languages in Room 106, O'Shaughnessy Hall on Friday, June 30, 7-9 p.m. This is the latest date for fulfillment of the language requirement for the master's degree in August, 1978. Registration should be completed in the Language Department by Thursday, June 22.

The GFLRE will again be offered on Thursday, August 3 for students not completing their master's degree work in August. Information concerning the time and location may be secured at the Language Department office and registration should be completed by Wednesday, July 26.

Art Gallery Exhibits

--A collection of Old Masters from the permanent collection representing the Baroque to the Romantic eras and including the finest Italian, French, Flemish and English works of art will be on display during the summer months in Notre Dame's Art Gallery.

--An exhibition of Art in the Service of the Church will run for two months in the Art Gallery. Painting, sculpture, pottery, glass, fibers, weaving, book-making, furniture and architectural models are included in the exhibition designed to demonstrate the benefits of cooperation between artists and their church.

--Women Artists in Residence, an exhibition by resident artists Alice Neel, Sandra Gierke, Janet Fish, Leonore Tawney and Moira Geoffrion, will continue through July 9.

Notre Dame's gallery is located in O'Shaughnessy Hall and is open 10 a.m. to 5 p.m. weekdays, and 1 to 5 p.m. weekends. Group tours are welcome.

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ND Publishing Award

William M. Halsey, a California author-historian, has been named winner of the second annual publishing award of Notre Dame's Center for the Study of American Catholicism for his book The Survival of Innocence: Catholicism in an Era of Disillusionment 1920-1949. The center is now receiving book-length manuscripts for the 1979 award, deadline October 1.

Summer Mass Schedule

Beginning the first Sunday of the Summer Session, June 25, the Sunday Masses at Sacred Heart Church will be at 9:15 a.m., 10:30 a.m. and 12:15 p.m. Vespers will continue to be held at 7:15 p.m.

faculty notes

Honors

José Anadón, assistant professor of modern and classical languages, was elected on March 9 active member of the National Society of History and Geography, in Santiago, Chile.

Sr. Elaine DesRosiers, director of Educational Media, has been appointed to the advisory committee for the new program in Audio/Visual Communications Technology at Indiana Vocational Technical College in South Bend.

John A. Ruhe, associate professor of management, has been appointed Vice President for Planning and Development of the American Institute for Decision Sciences-Northeast Division.

Bro. Leo V. Ryan, C.S.V., dean of the College of Business Administration, has been named to the Board of Governors Committee on Chapter Operations of Beta Gamma Sigma National Honorary Fraternity in Business Administration.

Activities

William E. Biles, professor of aerospace and mechanical engineering, presented a paper entitled "Simulating Material Handling Alternatives for Automotive Machining Processes," at the 1978 Society of Automotive Engineers Passenger Car Meeting in Troy, Mich., on June 6.

Dino S. Cervigni, assistant professor of modern and classical languages, organized three special sessions on Boccaccio and chaired one of the three sessions entitled: "Boccaccio: Aspects of His Legacy," at the 13th Medieval Conference in Kalamazoo, Mich., May 4-7.

Nancy L. D'Antuono, assistant professor of modern and classical languages, delivered a paper on "Boccaccio's Legacy: The Decameron novelle in Spain's Golden Age Theatre" at the 13th Medieval Conference at Western Michigan University, Kalamazoo, Mich., May 5.

Fabio B. Dasilva, professor of sociology and anthropology, organized and chaired a session on "Methods of Interpretation in Sociology" and presented a paper entitled "Uncertain Timetables: The Case of Spare-Part Surgery" at the annual meeting of the North Central Sociological Association held in Cincinnati, May 18-20.

William Eagan, associate professor of management, was a member of a panel discussing the Teaching of Business Law at the Tri-State Business Law Association Annual Meeting held at Michigan State University, East Lansing, April 21-22.

R.W. Fessenden, professor of chemistry and senior scientist in the Radiation Laboratory, presented a seminar entitled "The Time Dependence of ESR Signals of Radiolytically Produced Radicals" at the Workshop on Chemically Induced Magnetic Polarization held at Queen's University, Ontario, Canada, June 6-9.

W.H. Hamill, professor emeritus of chemistry and senior scientist in the Radiation Laboratory, gave a talk entitled "Mass Spectrometry--a 25 Year Retrospective Review" at Purdue University, May 27.

Edward A. Kline, director of the Freshman Writing Program, gave the lecture "Computer-aided Review Lessons in English Grammar" at the 16th Convention of the Association for Educational Data Systems, Atlanta, May 18.

David C. Leege, director of the Center for the Study of Man in Contemporary Society and professor of government and international studies, served as a discussant on the panel on "Intensive Analysis in Political Research" at the annual convention of the Midwest Political Science Association in Chicago, April 21. Leege also presented a lecture in Valparaiso University's cultural affairs series entitled "Research on Religious Beliefs and Political Attitudes: A Critique and the Next Steps" and delivered the Pi Sigma Alpha banquet address entitled: "A Political Science Major: So What Are You Going To Be When You Grow Up?", both on May 5.

John R. Lloyd, professor of aerospace and mechanical engineering, chaired a technical session on Heat Transfer in Turbulent Flow at the ASME-AIAA Thermophysics and Heat Transfer Conference in Palo Alto, Cal., May 24-26.

John R. Malone, professor of marketing, made a presentation entitled "Marketing the Produce and Operational Tactics" at the Hagar-NAMBAC Seminar which was held at the Center for Continuing Education during the week of May 22. He also delivered a paper entitled "Planning the Future of Your Company" at the Annual Management Conference of the Screen Printers Association on May 26, in the Center for Continuing Education.

Anton C. Masin, assistant librarian, gave a talk and exhibit to a Church group from the First Methodist Church in South Bend on "Panorama of Bibles From the Fourth Century A.D. to Special Editions of the Present Day," May 25.

James L. Melsa, chairman and professor of electrical engineering, presented a paper entitled "Energy Conservation Through Adaptive Optimal Control for a Solar Heated and Cooled Building" at the workshop on the Control of Solar Energy Systems for Heating and Cooling held in Hyannis, Mass., May 23-25.

John A. Ruhe, associate professor of management, delivered a workshop on "Organization Development in the Chamber" for the National Chamber of Commerce Conference at Notre Dame's Center for Continuing Education on June 5.

Bro. Leo V. Ryan, C.S.V., dean of the College of Business Administration, served as general lecturer at the Third Annual Institute on Financial Development for Catholic School Administration, Creighton University, Omaha, Neb., on June 13 on "Development and the Concept of Stewardship."

John F. Santos, professor of psychology, delivered the invited address "Mental Health Outreach: A Realistic Stopgap Approach to Reaching the Minority Elderly" and led a round table discussion on the psychological aspects of working with death, dying and bereavement at a research symposium on the Quality of Life and Mental Health of Minority Elderly People, Dayton, Oh., May 23-24.

Konrad Schaum, chairman and professor of modern and classical languages, served as a consultant to LaSalle College, Philadelphia, for the revision of the core curriculum on May 8-10.

W. Robert Schedt, associate professor of chemistry, gave a series of invited lectures on Metalloporphyrin Stereochemistry at the University of Southern California, University of California, Davis; UCLA and University of Arizona on April 10-14.

Thomas J. Schlereth, associate professor of American studies, delivered papers at the Chicago Historical Society on "Urban Material Culture Studies," May 4; at the Indiana Historical Society Spring Conference on "The Town of Artifact," May 12; at the Chicago Urban History Conference on "Architecture and City Planning" May 8 and 9; on "Above-ground Archaeology as a Research Technique" at the Indianapolis Museum of Art, May 19, and on "Photography in the Study of Urban History" at the Newberry Library, May 31.

Robert H. Schuler, director of the Radiation Laboratory and professor of chemistry, presented a seminar entitled "Spectroscopic Studies of Free Radical Reactions in Liquids" at Wayne State University, Detroit, Mich., on May 24.

Shan-Jen Sheng, assistant professional specialist in the Radiation Laboratory, presented a paper entitled "Single Vibronic Level Resonant Raman Scattering of Molecular Ions in Solid Glass at 77°K: Pyromellitic Dianhydride Anion and Naphthalene Cation" at the 33rd Annual Symposium on Molecular Spectroscopy held in Columbus, Oh., June 12-16.

J.K. Thomas, professor of chemistry and senior scientist in the Radiation Laboratory, presented a paper entitled "Radiation Chemistry Today" at the 26th Annual Meeting of the Radiation Research Society, held in Toronto, Canada, May 15-18. He also presented an invited talk entitled "Promotion of Photochemical Reactions by Micellar Systems" at the Colloid and Surface Science Symposium held in Knoxville, Tenn., June 12-15.

Thomas Werge, associate professor of English, delivered a paper, "The Race to Death and the Race for Salvation in the Divina Commedia," on April 15 at the Sewanee (University of the South) Medieval Colloquium, Sewanee, Tenn. On April 17, he lectured on "Dante's Angels and the Literal Reality of Heaven" and on April 18, presented a faculty seminar paper, "Incarnation and Imitation: Dante's Exaltation of St. Francis," at St. Anselm's N.H. College. He also presented a paper on "Death and Deliverance: Dante's Lupa in Light of St. Francis' Conversion of the Wolf of Gubbio," at the Thirteenth Conference on Medieval Studies, Western Michigan University, on May 7.

Robert W. Williamson, chairman and associate professor of accountancy, was an invited participant at a Symposium for Accounting Professors sponsored by Arthur Anderson and Company held in St. Charles, Ill. on May 15 and 16.

office of advanced studies

Notes for Principal Investigators

National Aeronautics and Space Administration Renewal of NASA Grants and Contracts

NASA is concerned with the impact of its sponsored programs on educational institutions. One area, timely renewal of on-going grants and contracts, is regularly brought to the attention of NASA staff members.

The impetus for early processing of renewals came from the university community itself in 1970. A resultant NASA study showed that although some two-thirds of NASA projects were being continued from year-to-year, only about a fourth of the awards were completed in a timely fashion. The situation has improved greatly in the past 7 years: currently close to three-fourths of the renewals are made sufficiently in advance of project anniversary dates to permit uninterrupted research progress.

NASA has been told by the various NASA Centers that some institutions may be inadvertently delaying the renewal process. NASA is, therefore, passing on the information they have received from those actually responsible for making renewals:

1. If renewal is desired, the renewal proposal should be in NASA hands at least 4 months prior to the expiration date.
2. The identification number of the grant or contract to be renewed should be clearly indicated in both the transmittal letter and the proposal.
3. No-cost-time extensions should be requested when appropriate.
4. Items of equipment costing in excess of \$1000 should be specifically identified, or referred to by type and function when the particular unit to be purchased has not been selected.
5. Cost sharing information should be included with unsolicited proposals for research.

Information Circulars

Additional information on all circulars listed below may be obtained by calling the following extensions:

Extension 7432, for information on federal government programs.

Extension 7433, for information on private foundations, corporations and state agencies.

Council for International Exchange of Scholars Fulbright Hays Opportunities Abroad, 1978-79

No. FY78-185

A few awards are still available for 1978-79 program year; they are listed below.

Architecture: Jordan
Business and Management: Africa, Yugoslavia
Economics: Jordan, Morocco, Romania
Education: Germany, Greece
Engineering: Pakistan, Turkey
Mass Communications: Egypt
Medical Science: Jordan
Social and Political Science: Indonesia

For further information write:

Council for International Exchange of Scholars
Suite 300
Eleven Dupont Circle
Washington, D.C. 20036

Or contact Dr. Paul M. Mellema, Extension 7212.

Council for International Exchange of Scholars Fulbright Scholars from Abroad — 1978-79

No. FY78-186

About 500 scholars from abroad visit the United States each year for university teaching and advanced research. Many scholars arrange their own appointments or request placement where special research facilities exist. Some, however, have been assured travel grants, conditional upon remunerative appointment at one or more institutions in the United States. Fulbright agencies abroad have nominated a number of scholars for appointment during the academic year 1978-79.

The following scholars are still available:

Italy:

Mr. Ottavio Barie, qualified to teach Modern Italian or European History. Research interest is the Woodrow Wilson period.

Japan:

Mr. Mikio Higa, prepared to teach Government and Politics in Japan, Governments of the Far East and Comparative Politics.

Mr. Masahide Ota, prepared to lecture on the various aspects of influence of modernization of minority groups, including those living in marginal areas.

Romania:

Mr. Achim Mihiu, interested in appointment for teaching Sociology of Human Nature, Sociology of Social Action or Romanian Culture and Civilization, and opportunity to collect material for Romanian anthology of American sociology.

Mr. Columbeanu Dimitrie Sergiv, interested in appointment for teaching Modern Romanian History, 1812-1918.

Turkey:

Mr. Melvut Caglar, interested in research, but would be willing to lecture on the economics of underdeveloped areas and on the Turkish economy.

Mr. Engin M. Gozukara, research to focus on the effect of various concentrations of polycyclic aromatic hydrocarbons in vitro and in vivo.

Mr. Ozay Huseyin Oral, prepared to lecture on matrix theory, differential equations, electrical systems analysis, control system, systems theory and multi-variable congral systems.

Yugoslavia:

Mr. Vladimir Ivir, interested in teaching/research. Teaching Serbo-Croat language, English/Serbo-Croat contrastive analysis, Serbo-Croat syntax or translation; research includes semantics and syntax of English adjectives, linguistic theories of translation, problems of lexical contrastive analysis.

Mr. Marko Krasmanovic, interested in working with American and other artists in all media, but especially intaglio printing, lithography and silk screen. Will give illustrated lectures on contemporary Yugoslav graphic art and education methods.

Mr. Milos Radulovic, interested in lecturing on Yugoslav socio-economic and socio-political system.

For further information write to:

Council for International Exchange of Scholars
Suite 300
Eleven Dupont Circle
Washington, D.C. 20036

Or contact Dr. Paul M. Mellema, Extension 7212.

Lilly Endowment, Inc. Faculty Open Fellowships 1979-80

No. FY78-187

Applications for the Lilly Endowment Faculty Open Fellowships 1979-80 are available in the Office of Advanced Studies, Division of Research and Sponsored Programs.

To be eligible, a candidate must have been a member of the faculty for a minimum of five years. Both the Fellow and the institution must plan for the return of the faculty member after use of the award.

For further information, refer to Notre Dame Report No. 15, page 349, Information Circular No. FY78-157.

Horace H. Rackham School of Graduate Studies University of Michigan Alice and Edith Hamilton Prize Competition

No. FY78-188

A \$1,000 prize is being offered for the best original book-length scholarly work on women or on an individual woman by the University of Michigan Graduate School.

To be eligible, manuscripts must:

1. Illuminate some facet or facets of the life, roles, position and achievements of women, past or present.
2. Be the work of one author, or of co-authors.
3. Be a work of synthesis and/or interpretation, or a monograph of broad interest. Not eligible are works of fiction, essay collections, unrevised doctoral dissertations.
4. Be submitted in the form of a two-page prospectus stating the author's purpose and outlining the book. Complete manuscripts, illustrations and photographs should not be sent for preliminary consideration.
5. Be submitted on or before September 1, 1978, to:

Hamilton Prize Competition
The University of Michigan Press
P.O. Box 1104
Ann Arbor, Michigan 48106

The Spencer Foundation Research in the Behavioral Sciences

No. FY78-189

The purposes of the Spencer Foundation are educational, charitable and scientific with special emphasis placed on research in the behavioral sciences.

The Foundation maintains a broad interest in research which shows promise of improving science and practice related to education, primarily for the support of research in the behavioral sciences aimed at the improvement of education. Proposals involving questions of educational processes, procedures or policies are invited.

One of the subsidiary aims of the Foundation is to foster increased communication between widely separated disciplines and schools within universities. To this end, interdisciplinary studies will be encouraged when appropriate to the problem being investigated. Similarly, the Foundation encourages efforts to improve the communication and use of scientific knowledge, and the formulation of research questions in ways useful to both scientists and practitioners.

The largest number of grants to date can be described as direct support of disciplined studies by individual scholars or teams of scholars through the institutions with which they are affiliated. Such grants may be ordered into four primary categories:

- * The educational development of children.
- * Problems of organization and administration in educational institutions.
- * Possible solutions to hindrances to educational development.
- * The social and economic effects of education.

Foundation grants have also been given to institutions to attract young scholars from several disciplines to the study of education and for institutional development or change where there is clear evidence that with some assistance an institution can increase its ability to do research in the behavioral aspects of education.

Deadline:

September 1, December 1, March 1 and June 1.

American Lung Association of Indiana Professional Student Traineeship

No. FY78-190

The American Lung Association of Indiana has announced a special program available to assist outstanding students who have completed at least the first year of their health professional education to accomplish a well-defined project that contributes to the prevention and control of lung disease.

Eligibility:

Would include, but would not be limited to, medical students, nursing students, respiratory therapy students, health education students.

Applications:

Applications for the 1979-80 fiscal year may be obtained by contacting:

Managing Director
American Lung Association of Indiana
30 East Georgia Street, Room 401
Indianapolis, Indiana 46204
Telephone: (317) 632-3383

Deadline:

October 15, 1978.

American Lung Association of Indiana Fellowship Program

No. FY78-191

The American Lung Association of Indiana has announced the availability of funds to assist outstanding individuals for training in the field of prevention and control of lung disease.

Eligibility:

Applicants may be physicians, holders of doctoral degrees, graduate students (i.e., health education) or candidates for an advanced degree--all with a specific interest in respiratory health.

Applications:

Applications for the 1979-80 fiscal year may be obtained by contacting:

Managing Director
American Lung Association of Indiana
30 East Georgia Street, Room 401
Indianapolis, Indiana 46204
Telephone: (317) 632-3383

Deadline:

October 1, 1978.

American Lung Association of Indiana Research Program

No. FY78-192

The American Lung Association of Indiana has announced the availability of research grants to assist investigators in carrying out research in the field of prevention and control of lung disease. The research may be clinical, laboratory, epidemiologic, social or other but should be relevant to lung disease.

These funds are considered "seed money" for the support of younger investigators.

Level of support will be based on the availability of funds and priority assigned to each project.

Applications:

Applications for the 1979-80 fiscal year (April 1, 1979-March 31, 1980) may be obtained by contacting:

Managing Director
American Lung Association of Indiana
30 East Georgia Street, Room 401
Indianapolis, Indiana 46204
Telephone: (317) 632-3383

Deadline:

October 1, 1978.

Current Publications And Other Scholarly Works

ARTS AND LETTERS
HUMANISTIC AND SOCIAL STUDIES

Economics

Leahy, William H.

W.H. Leahy and J. Hoover. 1978. Seniority in collective bargaining. Midwest Monitor January - February:1-8.

W.H. Leahy and M.J. Fitzgerald. 1978. Horizons for Future Collective Bargaining. University of Notre Dame Press. Notre Dame, Indiana. 68 pp.

Worland, Stephen T.

S.T. Worland. 1977. Justum Pretium: One more round in an endless series. History of Political Economy 9(4):504-521.

S.T. Worland. 1977. Social economy and the theory of justice: Two new directions. Review of Social Economy 35(3):345-359.

S.T. Worland. 1978. Review of R.P. Wolff's Understanding Rawls. Journal of Economic Issues 12(1): 207-210.

English

Kline, Edward A.

E.A. Kline. 1978. Computer-aided review lessons in English grammar. Pages 165-169 in, Proceedings of the Sixteenth Annual Convention of the Association for Educational Data Systems. Atlanta, Georgia.

History

DeSantis, Vincent P.

V.P. DeSantis. 1978. Review of J.B. Martin's Adlai E. Stevenson and the World: The Life of Adlai E. Stevenson. The Review of Politics 40:285-288.

Psychology

Cacioppo, John T.

R.B. Cialdini, J.T. Cacioppo, R. Bassett and J.A. Miller. 1978. Low-ball procedure for producing compliance: Commitment then cost. Journal of Personality and Social Psychology 36:463-476.

Sociology and Anthropology

Lamanna, Richard A.

R.A. Lamanna and J.D. O'Meara. 1977. The Wirth thesis on community size, density and heterogeneity as determinants of the social psychology of urban life: A critique of the literature and criteria for an empirical test. Regional Science Perspectives 7(2):103-121.

SCIENCE

Biology

Esch, Harold

H. Esch. 1978. On the accuracy of the distance message in the dances of honey bees. Journal of Comparative Physiology 123:339-347.

Chemistry

Fessenden, Richard W.

*H. Shimamori and R.W. Fessenden. 1978. Mechanism of thermal electron attachment in N₂O and N₂O-hydrocarbon mixtures in the gas phase. Journal of Chemical Physics 68(6):2757-2766.

Funabashi, Koichi

*K. Funabashi. 1978. Formation and chemical reactions of solvated electrons. Radiation Chemistry 15:25-29.

Hayes, Robert G.

R.G. Hayes and W.R. Scheidt. 1978. Single-crystal electron paramagnetic resonance of binuclear Mo(V) complexes. μ -Oxo-bis(oxotetraphenylporphinato-molybdenum(V)). Inorganic Chemistry 17(4):1082-1084.

Kozak, John J.

*R. Davidson and J.J. Kozak. 1978. On the relaxation to quantum-statistical equilibrium of the Wigner-Weisskopf atom in a one-dimensional radiation field. VIII. Emission in an infinite system in the presence of an extra photon. Journal of Mathematical Physics 19(5):1074-1086.

Levanon, Haïm

*H. Levanon, P. Neta and A.M. Trozzolo. 1978. Aromatic anion radicals as bronsted bases. ACS Symposium Series 69:400-410.

Neta, Pedastur

*H. Levanon, P. Neta and A.M. Trozzolo. 1978. Aromatic anion radicals as bronsted bases. ACS Symposium Series 69:400-410.

Nowak, Thomas

T. Nowak. 1978. The structure of the fluorophosphate - pyruvate kinase complex investigated by ³¹P relaxation rate-studies. Archives of Biochemistry and Biophysics 186(2):343-350.

Pasto, Daniel J.

D.J. Pasto, R.H. Shults, J.A. McGrath and A. Waterhouse. 1978. Clarification of the mechanism of the reaction of terminal-propargylic chlorides with alkyl Grignard reagents. Journal of Organic Chemistry 43(7):1382-1384.

D.J. Pasto, S.K. Chou, A. Waterhouse, R.H. Shults and G.F. Hennion. 1978. Transition metal catalysis in allene formation from Grignard reagents and propargyl chlorides. Journal of Organic Chemistry 43(7):1385-1388.

D.J. Pasto, S.K. Chou, E. Fritzen, R.H. Shults, A. Waterhouse and G.F. Hennion. 1978. Allene formation in reactions of propargyl chlorides with dialkylcuprates and alkylallenylcuprates. Journal of Organic Chemistry 43(7):1389-1394.

Scheidt, Walter R.

R.G. Hayes and W.R. Scheidt. 1978. Single-crystal electron paramagnetic resonance of binuclear Mo(V) complexes. μ -Oxo-bis(oxotetraphenylporphinatomo-lybdenum (V)). Inorganic Chemistry 17(4):1082-1084.

Shimamori, Hiroshi

*H. Shimamori and R.W. Fessenden. 1978. Mechanism of thermal electron attachment in N₂O and N₂O-hydrocarbon mixtures in the gas phase. Journal of Chemical Physics 68(6):2757-2766.

Thomas, J. Kerry

*P.L. Piciulo and J.K. Thomas. 1978. Photoionization of pyrene in alkane liquids. Journal of Chemical Physics 68(7):3260-3264.

*D.J.W. Barber and J.K. Thomas. 1978. Reactions of radicals with lecithin bilayers. Radiation Research 74:51-65.

*B. Katusin-Razem, M. Wong and J.K. Thomas. 1978. The effect of micellar phase on the state and dynamics of some excited state charge transfer complexes. Journal of the American Chemical Society 100(6):1679-1686.

Trozzolo, Anthony M.

*H. Levanon, P. Neta and A.M. Trozzolo. 1978. Aromatic anion radicals as bronsted bases. ACS Symposium Series 69:400-410.

* Under the Radiation Laboratory

Earth Sciences

Gutschick, Raymond C.

R.C. Gutschick and J. Rodriguez. 1977. Late Devonian-Early Mississippian trace fossils and environments along the Cordilleran Miogeocline, western United States. Pages 195-208 in, T.P. Crimes and J.C. Harper, eds. Trace Fossils 2. Seel House Press, Liverpool, England.

Mathematics

Nadel, Mark

L. Lipshitz and M. Nadel. 1978. The additive structure of models of arithmetic. Proceedings of the American Mathematical Society 68(3):331-336.

Physics

Cushing, James T.

J.T. Cushing. 1978. Review of E.S. Abers and C.F. Kennel's Matter in Motion: The Spirit and Evolution of Physics. American Journal of Physics 46(3):313.

ENGINEERING

Aerospace and Mechanical Engineering

Jolles, Mitchell I.

C.W. Smith, W.H. Peters and M.I. Jolles. 1978. Stress intensity factors for reactor vessel nozzle cracks. Journal of Pressure Vessel Technology 100:141-149.

Civil Engineering

Ketchum, Jr., Lloyd H.

L.H. Ketchum, Jr. 1978. Motivating engineering students during the difficult early years. ERM 10(3):60-61.

BUSINESS ADMINISTRATION

Management

Ruhe, John A.

J.A. Ruhe and J. Eatman. 1977. Effects of racial composition on small work groups. Small Group Behavior 8(4):479-486.

MEDIEVAL STUDIES

Berkhout, Carl T.

C.T. Berkhout. 1978. Old English bibliography 1977. Old English Newsletter 11(2):37-73.

RADIATION LABORATORY

Chipman, Daniel M.

D.M. Chipman. 1978. Ionization potentials of H₂O from valence bond and molecular orbital wave functions. Journal of the American Chemical Society 100(9):2650-2654.

Hasegawa, Kunihiko

K. Hasegawa and P. Neta. 1978. Rate constants and mechanisms of reaction of Cl₂⁻ radicals. Journal of Physical Chemistry 82(8):854-857.

Neta, Pedastur

K. Hasegawa and P. Neta. 1978. Rate constants and mechanisms of reaction of Cl₂⁻ radicals. Journal of Physical Chemistry 82(8):854-857.

Monthly Summary

Awards Received

IN THE MONTH OF MAY, 1978

Department or Office	Principal	Short title	Sponsor	Dollars Months
AWARDS FOR RESEARCH				
Met. Eng. Mat. Sci.	Fiore	Small college faculty in research	Natl. Sci. Fdn.	11,499 2
Aerospace Mech. Eng.	Kanury	Study of liquid pool burning in reduced gravity	Natl. Aero. Space Admin.	16,178 6
Radiation Lab.	Schuler	Effects of radiation on matter	Dept. Energy	80,000 12
Electrical Eng.	Liu	Fault diagnosis of large scale analog systems	U.S. Navy	30,849 12
Chemistry	Pasto	Cycloadditions and thermal rearrange- ments of allenes	Natl. Sci. Fdn.	29,000 12
Microbiology - Lobund Lab.	Pollard	Investigations on prostate adenocar- cinomas	Natl. Inst. Health	10,426 14
Biology	Craig, Fish	Allergy and infectious diseases	Natl. Inst. Health	3,000 12
Microbiology - Lobund Lab.	Wostmann, Webb Pleasants	Role of enteric antigen in age- related immune changes	Natl. Inst. Health	101,571 12
Cent. Study Man	Arnold	The presidency and executive reorganization	The Ford Fdn.	44,010 33
AWARDS FOR EDUCATIONAL PROGRAMS				
English	Rathburn	Shakespeare and the public	Ind. Comm. Human.	5,976 4
Law School	Postlewaite	Summer law program in Japan	The Japan Fdn.	10,000 2
Aerospace Mech. Eng.	Jolles	Energy efficient vehicle competition	SCORE	2,500 24
Biology	Weinstein	Experimental parasitology and vector biology	Natl. Inst. Health	83,260 12
Law School	Kommers, Link	The Center for Civil Rights	The Ford Fdn.	73,000 24
Sociology Anthropology	Bellis	Archaeological study in Kankakee marsh	Dept. of Nat. Res.	12,035 12
Psychology	Kline, Falk	Gerontological training program	REAL Serv.	2,450 6
Civil Eng.	Marley	Minority introduction to engineering	Eng. Coun. Prof. Dev.	5,000 12
SERVICE PROGRAMS				
Biology	Craig	Survey of mosquitoes of St. Joseph County	St. Jos. Cty. Dept. Pub. Health	25,000 10
Center Human Devel.	Dwyer	Needs assessment program	---	50 --
Center Past. Soc. Min.	Gallen	Notre Dame Center for Pastoral Liturgy	---	5,823 --
Center Past. Soc. Min.	Pelton	Notre Dame Institute for Clergy Education	---	3,367 --

Proposals Submitted

IN THE MONTH OF MAY, 1978

Department or Office	Principal	Short title	Sponsor	Dollars Months
PROPOSALS FOR RESEARCH				
Economics	Marsh, Scovill	Degree of tax illusion in the labor force of married women	Dept. of Labor	15,789 12
College Arts Letters	Samora, Press	The original Tex-Mex music oral history project	Natl. Endow. Human.	4,238 3
Law School	Ripple, Rodes	Sanctions imposable for a violation of federal civil procedure rules	Fed. Jud. Cent.	16,354 4
White Center, Law School, Biology	Bender, Shaffer	Genetics, law and public policy	Natl. Sci. Fdn.	750,830 30
Microbiology - Lobund Lab.	Pleasants	Factors in lysinoalanine nephrocytomegalia	Food Drug Admn.	7,649 3
Cent. Civil Rights	Kommers	Civil rights during the Eisenhower administration	Edna McConnell Clark Fdn.	40,000 --
Cent. Civil Rights	Kommers	Civil rights during the Eisenhower administration	Rockefeller Fdn.	40,000 --
Chem. Eng.	Kohn, Luks	Solid solubility of hydrocarbons in light liquid hydrocarbons	Natl. Sci. Fdn.	61,375 12
College Eng.	Berry, Kohn, Kwor, Yang, Melsa, Nelson	A 20 KW photovoltaic supplemental electric power source	Dept. Energy	154,745 6
Chemistry	Castellino	Plasminogen and plasmin: Structure and function	Natl. Inst. Health	36,936 12
Chemistry	Scheidt	X-ray and chemical studies of metalloporphyrins	Natl. Inst. Health	69,017 12
Biology	Saz	Chemotherapy and metabolism of filariids	Natl. Inst. Health	28,283 12
Off. Adv. Studies	Kobayashi	Faculty research fund	Spencer Fdn.	500,000 --
History	Kerby	Dick Taylor's Confederacy: The Cis- Mississippi Southwest, 1864-1865	Natl. Endow. Human.	20,000 12
General Program	Lyon	History and the liberal arts	Natl. Endow. Human.	20,000 12
Inst. Urban Studies	Brodin	Neighborhood identification handbook project	Housing Urban Devel.	21,053 6
Chem. Eng.	Carberry	U.S. - Soviet co-operative program in catalysis	Natl. Sci. Fdn.	36,474 12
Art Gallery	Porter	Mestrovic collection	Coun. Internatl. Exch. Scholars	11,140 3
Civil Eng.	Irvine	Sequencing batch reactors for treatment of wastewaters	Natl. Sci. Fdn.	8,838 7
Microbiology - Lobund Lab.	Wostmann, Webb Pleasants	Role of enteric antigen in age-related immune changes	Natl. Inst. Health	139,387 12
Chemistry	Basu	Glycolipid metabolism in tumor and transformed cells	Natl. Inst. Health	68,554 12
Elect. Eng., Chem. Eng.	Gajda, Ajmera, Strieder	Electromagnetic properties of advanced composite materials	Air Force, AFOSR	60,608 12
PROPOSALS FOR EDUCATION				
Cent. Study Man	Goodpaster, Ruhe	Policies and persons: Dilemmas in corporate decision-making	Ind. Comm. Human.	29,171 12
Psychology	Borkowski, Whitman	Mental retardation training program	Jos. P. Kennedy, Jr., Fdn.	400,000 --
Management	Bella	Jesse H. Jones Professorship in Management	Houston Endow., Inc.	50,000 9
Student Activities	Benesh	Collegiate jazz festival	Natl. Endow. Human.	16,072 2
Civil Eng.	Marley	Women and minorities in engineering	Corning Glass Works Fdn.	38,138 9
Cent. Study Man	Santos	Outreach training to assist rural and minority elderly	Natl. Inst. Mental Health	99,646 12
Psychology	Borkowski, Whitman	Research training in mental retardation	Natl. Inst. Health	67,137 12
PROPOSAL FOR SERVICE PROGRAM				
Biology	Craig, Grimstad	Arbovirus surveillance laboratory service: Serological testing	Ind. State Board Health	73,844 12

Summary of Awards Received and Proposals Submitted

IN THE MONTH OF MAY, 1978

AWARDS RECEIVED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	6	\$ 240,175	3	\$ 86,358	9	\$ 326,533
Facilities and Equipment	-	- - -	-	- - -	-	- - -
Educational Programs	4	171,260	4	22,961	8	194,221
Service Programs	1	25,000	3	9,240	4	34,240
Total	11	\$ 436,435	10	\$ 118,559	21	\$ 554,994

PROPOSALS SUBMITTED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	10	\$ 517,121	12	\$ 1,594,149	22	\$ 2,111,270
Facilities and Equipment	-	- - -	-	- - -	-	- - -
Educational Programs	3	155,275	4	544,889	7	700,164
Service Programs	-	- - -	1	73,844	1	73,844
Total	13	\$ 672,396	17	\$ 2,212,882	30	\$ 2,885,278

Closing Dates for Selected Sponsored Programs

Proposals must be submitted to the Office of Research and Sponsored Programs seven (7) calendar days prior to the deadline dates listed below.

Agency	Programs	Application Closing Dates
Health Services Administration	Research in Maternal and Child Health and Crippled Children's Services	August 1, 1978
National Endowment for the Humanities	Development Grants	August 1, 1978
National Endowment for the Humanities	Higher Education Humanities Institutes Grants	August 1, 1978
National Endowment for the Humanities	Public Programs	August 25, 1978
National Science Foundation	Ethics and Values in Science and Technology (preliminary)	August 1, 1978
National Science Foundation	International Cooperative Scientific Activities (U.S./Japan)	August 31, 1978
National Science Foundation	Metabolic Biology Proposals	August 1, 1978
National Science Foundation	Oceanography Project Support	August 15, 1978
National Science Foundation	Proposals in Biochemistry, Biophysics, Cellular Biology, Developmental Biology, Genetic Biology, Human Cell Biology, Regulatory Biology	August 1, 1978
National Science Foundation	Proposals in Sociology, Political Science, History and Philosophy of Science, Social Indicators and Special Projects, Economics, Law and Social Sciences, Geography and Regional Science	August 15, 1978
National Science Foundation	Public Understanding of Science	August 1, 1978
National Science Foundation	Scientific Research Support (behavioral & neural sciences)	August 31, 1978
National Science Foundation	Scientific Research Support (biology)	August 1, 1978
National Science Foundation	Scientific Research Support (social sciences)	August 15, 1978
National Science Foundation	U.S. and Developmental Psychology Proposals	August 31, 1978
National Science Foundation	U.S.-Japan Visiting Scientists and Seminars Proposals	August 31, 1978

documentation

Internal Revenue Service Tuition Remission Review

(Editor's note: Because of widespread faculty interest in Internal Revenue Service review of tuition remission programs, we are running the letter of the staff counsel of the American Council on Education to the IRS in this issue.)

May 5, 1978

Dear Colleagues:

As you may be aware, the Internal Revenue Service is about to unveil new rules that would tax numerous employee fringe benefits. Among the presently untaxed employee fringe benefits that are under scrutiny by IRS are the tuition remission programs maintained by many colleges and universities for the spouses and children of faculty members and other employees.

Although our letter to Internal Revenue Commissioner Jerome Kurtz has received coverage in Higher Education and National Affairs and other national publications, I felt that you might be interested in receiving the full text of our statement. We plan to file a more detailed brief with the commissioner in the near future.

Should you have questions relating to this matter, please do not hesitate to write or call our counsel, Sheldon Elliot Steinbach at 202 833-4738.

I hope you find this kind of communication interesting and helpful. If you would like us to expand this service, I would appreciate hearing from you.

Cordially,

J.W. Peltason
American Council on Education

April 28, 1978

Mr. Jerome Kurtz
Commissioner of Internal Revenue
1111 Constitution Avenue, N.W.
Washington, D.C. 20224

Dear Mr. Kurtz:

It is our present understanding that you and your staff are considering proposing significant changes in the tax treatment of fringe benefits including tuition remission programs at colleges and universities. In view of our vital concern with this issue, we would like to present our views for consideration during your deliberations.

The American Council on Education is a nonprofit educational and charitable organization described in Section 501 (c) (3) whose membership consists of over 1,200 nonprofit colleges and universities, public and private, in the United States.

It is our position that any material amendment to Regulations 1.117-3 and 4 without further congressional action is beyond the power of the Department of the Treasury and the Internal Revenue Service. Any change in the regulations would reverse the only explanation given by Congress as to its understanding of what constitutes a scholarship or fellowship.

Present regulations provide that:

"If an educational institution maintains or participates in a plan whereby the tuition of a child of a faculty member of such institution is remitted by any other participating education institution attended by such child, the amount of the tuition so remitted shall be considered to be an amount received as a scholarship."

This language is virtually identical to and directly traceable to the explanation given by both tax-writing committees of Congress when they adopted the Section 117 exempting scholarships and fellowships from federal income taxation. (House Report 1337, 83d Cong., 2d Sess., A37 (to accompany H.R. 8300) A36 (1954); Senate Report 1622, 83d Cong., 2d Sess., 188.)

The regulations were adopted in 1956 and have remained unchanged since that time. They have consistently been interpreted as excluding from federal income taxation grants to children and other dependents of faculty members, staff and other employees of colleges, universities and schools in the form of:

- (a) Remission of tuition by the institution itself.
- (b) Remission of tuition by an institution which participates in a tuition remission exchange program referred to in said regulations.
- (c) Grants to children and other dependents of faculty, staff and employees to attend other institutions of higher learning.

The very regulations have been found by the Supreme Court to be reasonable and consistent with the statute and as "comporting" with the ordinary understanding of "scholarships" and "fellowships." As a "contemporaneous construction by those charged with the administration of 'the Code', the Regulations 'must be sustained unless unreasonable and plainly inconsistent with the revenue statutes and should not be overruled except for weighty reasons.' Commissioner v. South Texas Lumber, 333 U.S. 496, 501." Bingler v. Johnson, 394 U.S. 741, 751 and 750.

Where, as in this instance, Congress has not specifically provided guidance in the statute as to the meaning of terms, i.e., "scholarship" and "fellowship," reference to the House and Senate committee reports on the bill which lead to the enactment of the provision is proper. Commissioner v. Builder, 369 U.S. 499 and cases cited therein.

In view of the above, it is ironic that the only statement of Congress' intent as to the meaning of a scholarship or fellowship is the very provision that is presently being questioned by your staff.

The regulations, as an interpretation long continued by the Internal Revenue Service without substantial change applying to unamended or substantially reenacted statutes, are deemed to have the effect of law. The regulations which you are considering amending (Regulations 1.117-3 and 4) were adopted in 1956, two years after the enactment of the statute and have not been changed in the ensuing 20 years.

On five occasions, Congress has, directly or indirectly, amended Section 117. On no occasion did it consider or was it asked to consider modification of the definition of scholarship as included in the regulations.

Furthermore, in 1971, the Internal Revenue Service in a private letter ruling to a state university held:

"It is clear, however, that Congress intended to treat as a scholarship the amount of tuition of a dependent child of a faculty member that is remitted pursuant to a plan for such remittance maintained by an educational institution with another education institution. The same result should obtain where an educational institution maintains a plan to waive the tuition of the dependent children of its faculty members when such children attend the educational institution that employs the parents."

As "Treasury regulations and interpretations long continued without substantial change, applying to unamended or substantially reenacted statute," the regulations "are deemed to have received congressional approval and have the effect of law." Helvering v. Winmill, 305 U.S. 70, 83, and cases cited.

The tuition remission programs presently being scrutinized by your staff constitute scholarships or fellowships under established definitions. Tuition remission programs have been in effect at colleges and universities for many years, probably antedating the taxing statute itself. They were intended to provide the children and other dependents of faculty and employees with an education at the institution where their parents were engaged. The tuition remission exchange program described in the House and Senate reports with respect to the enactment of Section 117 came about as a natural extension of tuition remission, it part because of the desire to accommodate children who could not attend their parent's institution because it was limited to students of the opposite sex. Tuition remission grants merely reflected the difficulties experienced in the exchange program with one or several institutions being required to absorb too many students because of their popularity.

Tuition remission and similar grant programs long have been a significant part of the scholarship program of colleges and universities, private and public, which colleges and universities are the normal and principal source of scholarship funds. Furthermore, tuition remission and similar grant programs have "all of the normal characteristics of scholarships." Bingler v. Johnson, 394 U.S. 741; Elmer A. Reese, 45 T.C. 407. Their primary purpose is to further the education and training of the recipient. Chandler v. Bhalla, 35 T.C. 13; Commissioner v. Ide, 335 F.2d852. Regulations 1.117-4(c). They are not compensatory in nature. The recipients perform no quid pro quo as in Bingler v. Johnson, supra. The parents of the recipients are fully compensated for the work they perform for the institution at a rate commensurate with their experience and position. See Mary Keegstra, 45 T.C. 987 (1976).

Any proposed amendments of Regulations 1.117-3 and 4 should be withdrawn since they would incorrectly interpret the statute and directly contradict the clear legislative intent of Congress. The existing regulations have the effect of law since they are contemporaneous, clearly consistent with the statute and legislative history and have continued without amendment for 20 years, during which period the section in question has been amended by Congress five times without any attempt to modify the interpretation.

We would be please to meet with you and your staff to discuss the matter further.

Sincerely,

Sheldon Elliot Steinbach
Staff Counsel
American Council on Education

The following associations join in this statement:

American Association of State Colleges and Universities
Association of American Universities
Association of Jesuit Colleges and Universities
National Association of College and University Business Officers
National Association of Independent Colleges and Universities
National Association of State Universities and Land-Grant Colleges
National Catholic Educational Association's College and University Department

Graduate School Foreign Language Requirement

The following resolution was adopted by the Graduate Council at its 184th meeting on May 18, 1978:

"That the Graduate School shall retain the requirement of reading proficiency in one foreign language for the doctoral degree. The designation of the appropriate language for each candidate is at the option of each department. The Graduate School shall not retain the requirement of one foreign language for the research master's degree, but shall place this decision at each department's option."

Call the Graduate Office, Administration Building, room 315, extension 7544, for any clarification regarding the above resolution.

Dean Joseph C. Hogan
College of Engineering
Notre Dame, IN 46556

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