

notre dame report

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83-84

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the university

liberal arts institute established

The University's College of Arts and Letters recently announced the formation of an Institute for Advancement of Scholarship in the Liberal Arts, the core of a major undertaking to enhance teaching and research in the humanities and social sciences.

The institute will operate as an arm of the college, organized as a flexible task force rather than a research institute, to strengthen the college's programs and faculty. Directed by Arts and Letters Associate Dean Nathan O. Hatch, the institute will be comprised of two committees. The Planning and Priorities Advisory Committee will serve as a resource to assess the college and its departments and aid in long-range planning. The Development Advisory Committee will assist with financial development, proposal writing and foundation relations.

history of universities collection inaugurated

The Medieval Institute at the University inaugurated the Astrik L. Gabriel History of Universities Collection on Dec. 10. Prof. Gabriel, an international expert in the history of universities, is a professor emeritus in the Institute. Complementing the volume collection in the Institute is microfilm of Gabriel's research notes in the field.

Gabriel joined the Notre Dame faculty in 1948 and was appointed director of the Medieval Institute in 1952, serving in that capacity until 1975. For the past decade he has directed the Frank M. Folsom Ambrosiana Microfilm and Photographic Collection. He is a corresponding fellow of the French and Bavarian Academies and president of the International Commission for the History of Universities.

schossberger award

Matthew Fitzsimons, professor emeritus of history at the University, received the 1983 Emily Schossberger Award at a faculty reception in the University Club, Dec. 6. The award is given annually by the Notre Dame Press to a member of the Notre Dame community who has made contributions to the cause of scholarly publishing.

Fitzsimons is a former editor of Notre Dame's Review of Politics, a scholarly publication published quarterly, and was the author of a 1964 book, Empire by Treaty. He has coauthored or coedited Development of Historiography, Catholic Church and World Affairs, Diplomacy in a Changing World and World History. He was a specialist in the foreign policy of the British Labor Government and was a 1975 recipient of the Rev. Charles E. Sheedy Award presented by Notre Dame's College of Arts and Letters.

Miss Schossberger, born in Budapest and educated in Vienna, was the first woman executive at Notre Dame, where she served as director of the Press from 1960 to her retirement in 1972. She also served in executive capacity with University Presses in Chicago, Nebraska and Fordham.

erratum

The following correction to Notre Dame Report #7 was brought to the editor's attention. In the Minutes of the 207th Graduate Council Meeting, p. 233, Section I., the sentence beginning in line 10 should read as follows: The provost also discussed some of the causes for delay in upgrading the mainframe. The council was informed that the University was considering various options proposed by Apple Computer for the purchase of microcomputers and accessories by faculty and students.

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faculty notes

honors

James W. Frick, assistant to the president of the University, was cited for his service to higher education at the Great Lakes Regional conference of the Council for Advancement and Support of Education (CASE) in Chicago, Ill., Dec. 13. In 1971-72 he was president of the American College Public Relations Association and led an effort to combine it with the American Alumni Council to form CASE. His career at Notre Dame spanned 32 years, during which he planned and executed development programs generating more than \$300 million.

Leonard E. Munstermann, assistant faculty fellow in biology, had four photographic color slides accepted for showing in the 26th National Insect Photographic Salon on Nov. 29-30.

David N. Ricchiute, associate professor of accountancy, was appointed to the American Accounting Association's Education Advisory Council and to the American Institute of Certified Public Accountant's LEXIS-NAARS Information Retrieval Committee.

Kenneth F. Ripple, professor of law, was named to the Judicial Review Committee of the Federal Bar Association.

Thomas J. Schlereth, professor and director of graduate studies in American Studies, has been elected to the Editorial Board of North American Culture, the journal of the Society for the North American Geographical Survey.

activities

Hafiz Atassi, professor of aerospace and mechanical engineering, presented a talk, "Unsteady Vertical Distortion of Potential Flow Around Bluff Bodies," at the 36th Annual Meeting of American Physical Society, Division of Fluid Dynamics, Houston, Tex., Nov. 20-22.

Alan B. Cain, assistant professor of aerospace and mechanical engineering, gave a talk, "Treatment of Inflow-Outflow Boundary Conditions by Functional Splitting," at the 36th Annual Meeting of the Division of Fluid Dynamics, American Physical Society, held in Houston, Tex., Nov. 20-23.

Xavier Creary, associate professor of chemistry, presented a seminar entitled "Diverse Transformation of α -Keto Triflates, Electron Deficient Carbocations" to the Department of Chemistry, University of Toronto, Canada, on Nov. 18.

James T. Cushing, professor of physics, gave a presentation entitled "Is Locality Incompatible with the Bell Theorems?" at a colloquium held at Indiana State University, Terre Haute, Ind., Nov. 30.

Thomas L. Doligalski, assistant professor of aerospace and mechanical engineering, gave a lecture, "Unsteady Three-Dimensional Vortex Loops in Wall-Bounded Shear Flows," at the 36th Annual Meeting of the American Physical Society, Division of Fluid Dynamics, Houston, Tex., Nov. 20-22.

Sonia G. Gernes, associate professor of English, presented the keynote address, "The Quest of the Woman Writer," at the Speaking of English Conference, Valparaiso University, Valparaiso, Ind., Oct. 27. She gave a reading of her own poetry and fiction there on the same day as part of the Word Fest series. She also read her own poetry and fiction at the American Association of University Women luncheon in South Bend, Ind., on Nov. 12.

Philip Gleason, professor of history, gave one of two principal invited lectures at a conference on "Church History: Retrospect and Prospect" held at the Bentley Historical Library of the University of Michigan, Ann Arbor, on Nov. 17-18. The conference marked the 150th anniversary of the establishment of the Archdiocese of Detroit.

Denis Goulet, O'Neill professor of education for justice, gave a seminar to the United Nations Center for Science and Technology for Development, New York, on "Problems of Evaluating Progress in Science and Technology in Development," Nov. 25. He delivered the keynote address, "Development

Images and Strategies: The Values at Stake," at the Conference on "Ethics in International Development," Cornell University, Ithaca, N.Y., Dec. 2. He also served as respondent the following day at a panel on "The Ethics of Expertise: Technical Decisions and Development."

Paul R. Grimstad, assistant professor of biology, presented a paper (with Robert D. Boromisa) entitled "Jamestown Canyon Virus: Vector-Host Studies in Indiana" at the annual meeting of the Indiana Academy of Science, Entomology Division held at Indiana University-Purdue University, Fort Wayne, on Oct. 28.

Douglas W. Kmiec, associate professor of law, delivered an invited paper entitled "Less Government Equals More House at Less Cost" at a conference on "Regulation and Housing in the 1980s" held in Washington, D.C., on Nov. 29. In addition, he was a panel participant on "Land Regulation and the Environmental Dilemma."

Howard P. Lanser, associate professor of finance, discussed a paper entitled "A Close Look at the Debt-for-Equity Swap" during a session on Financing the Firm at the annual meeting of the Financial Management Association, Atlanta, Ga., Oct. 20.

Rev. Patrick Maloney, C.S.C., associate professor of music, gave a talk, "Suitable and Unsuitable Materials for High School Vocal Contests -- A Scrutiny of Some of the Lists," at the Michiana Vocal Forum, Indiana University-South Bend, Nov. 20.

Rev. Ernan McMullin, professor of philosophy, gave a seminar on "Galilean Idealization" at Cambridge University, England, Nov. 10. He delivered the annual Fremantle Lecture at Oxford University, England, on "Galileo as Theologian," Nov. 15. He gave a colloquium on "Patterns of Explanation in the Natural Sciences" at Balliol College, Oxford, Nov. 16. He also presented an interdisciplinary Faculty Forum at the University of Kent (Canterbury) on "Rational and Social Factors in the History of Science," Nov. 22.

Leonard E. Munstermann, assistant faculty fellow in biology, gave a presentation, "The Sardinian Mosquito Project: A Faunal Survey 30 Years After Malaria Eradication," at the Entomological Society of America National Meeting, Renaissance Center, Detroit, Mich., Nov. 30.

Victor W. Nee, professor of aerospace and mechanical engineering, presented a talk, "The Boundary Layer Development of a Flow with Uniform Temperature Gradient over an Insulated Plate," at the 36th Annual Meeting of the American Physical Society held in Houston, Tex., Nov. 20-22.

Maria Rosa Olivera-Williams, assistant professor of modern and classical languages, organized and chaired a seminar entitled "Reader Response Criticism in Hispanic Literature" at the annual meeting of the Midwest Modern Language Association, held in Minneapolis, Minn., Nov. 3-5.

Rev. Thomas F. O'Meara, O.P., professor of theology, gave a workshop on "The Theology of Ministry" at the Institute of Pastoral Studies, Loyola University, New Orleans, La., Dec. 2-3.

Irwin Press, professor of anthropology, presented a lecture, "Cultural Components of Disease and Healing," to the American Cancer Society/Texas State Medical Social Workers in Austin, Tex., on Nov. 10.

Kenneth F. Ripple, professor of law, was an invited faculty member at the Federal Judicial Center Workshop, Dolley Madison House, Washington, D.C., and lectured on "The Federal Rules of Appellate Procedure," on Nov. 8.

Paul Roche, guest professor and poet-in-residence for the program of liberal studies, delivered four lectures: "The English Romantic Poets," "Survey of British Poets from Beowulf to Blake," "Cooking with a Poet" and "How to Ruin a Poem," at Olivet College, Mich., Nov. 29-Dec. 1.

Anthony M. Trozzolo, Huisking professor of chemistry, presented the following invited lectures: "Photo-Induced Ring Opening of Strained Heterocycles" at the Max Planck Institut für Strahlenchemie, Mülheim/Ruhr, Germany, on Nov. 4; "Novel Charge-Transfer Complexes" at the Karl Friedrich Bonhoeffer Institute for Biophysical Chemistry, Göttingen, Germany, on Nov. 7; "Solid-State Photochemistry of Three-Membered Heterocycles" at the Organic Chemistry Colloquium, Université Catholique de Louvain, Louvain-la-Neuve, Belgium, on Nov. 9.

Russell G. Wahler, assistant professor of marketing, presented two papers at the American Institute for Decision Sciences annual meeting in San Antonio, Tex., Nov. 21-23: "Computer-Assisted Purchasing: A Simulation" and "Televised Marketing Principles: An Investigation of Grade and Course Evaluation Effects" (the latter coauthored with Gu R. Banville). He also chaired a session entitled "Advertising Management and Research."

Rev. Oliver F. Williams, C.S.C., assistant professor of management, gave an invited lecture, "Religious Values and American Business," at a conference on Religion in Contemporary America at the Freedoms Foundation at Valley Forge, Valley Forge, Pa., Nov. 30.

Kwang-tzu Yang, professor of aerospace and mechanical engineering, presented an invited seminar, "Numerical Computations of Buoyant Enclosure Flows - Capabilities and Limitations of a Laboratory for Numerical Experimentation," to the Department of Mechanical Engineering and Applied Mechanics, University of Pennsylvania, Philadelphia, Nov. 30.

Robert Wilken, professor of theology, presented a lecture on "Martin Luther" at the Luther Conference, Queens College, New York City, Nov. 10.

John H. Yoder, professor of theology, presented two lectures on "War and Peace" at the Illinois Conference of Churches, Normal, Ill., Nov. 11-12.

advanced studies

notes for principal investigators

Assurance of Compliance with DHHS Regulations on the Protection of Human Research Subjects

Introduction

The Department of Health and Human Services (HHS) has reviewed and approved the University's Assurance of Compliance document which was submitted in compliance with the requirements for the protection of human subjects prescribed in Part 4b of Title 45 of the Code of Federal Regulations (45 CFR 46), revised March 8, 1983.

The new assurance has been assigned the identification number M1262XM and becomes effective December 1, 1983. The approval period is for four(4) years and hence will expire on November 30, 1987. A new assurance is to be negotiated with the Office of Protection from Research Risks prior to the expiration date.

The full text of the assurance will appear in successive issues of the Notre Dame Report.

1. The University of Notre Dame will comply with the Department of Health and Human Services regulations on Protection of Human Subjects (45 CFR 46 as amended), accordingly:

2. This institution has established and will maintain a University Committee on the Protection of Human Subjects competent to review projects and activities that involve human subjects. The Committee shall insure for each activity as planned and conducted that:

The sum of the benefit to the subject and the importance of the knowledge to be gained warrants a decision to request the subject to participate;

The rights and welfare of any such subject will be adequately protected;

Legally effective informed consent will be obtained by adequate and appropriate methods in accordance with the provision of the regulations;

The conduct of the activity will be reviewed at timely intervals.

3. This institution will provide for Committee reviews to be conducted with objectivity and in a manner to ensure the exercise of independent judgment of members. Members will be excluded from review of projects or activities in which they have an active role or conflict of interest.

4. This institution will encourage continuing constructive communication between the Committee and the activity director as a means of safeguarding the rights and welfare of the subjects.

5. This institution will have available the facilities and professional attention required for subjects who may suffer physical, psychological, or other injury as a result of participation in an activity.

6. This institution acknowledges that it will bear full responsibility for the proper performance of all work and services including the use of human subjects under any grant or contract covered by this assurance, including continuing compliance with pertinent state or local laws, particularly those concerned with informed consent.

7. This institution will maintain appropriate and informative records of the Committee's review of applications and activities, of documentation of informed consent, and of other documentation that may pertain to the selection, participation, and protection of subjects and to the review of circumstances that adversely affect the rights or welfare of individual subjects.

8. This institution will at least annually reassure itself through appropriate administrative overview that its practices and procedures designed for the protection of the rights and welfare of human subjects are being effectively applied and are consistent with the regulation and with implementation of this assurance as accepted by the Department of Health, and Human Services.

Dr. Robert E. Gordon
Vice President for Advanced Studies
University of Notre Dame
May 31, 1983
Telephone: (219) 239-6291

UNIVERSITY OF NOTRE DAME
Implementation of Assurance of
Compliance with HHS Regulations
for Protection of Human Research Subjects

The University of Notre Dame hereinafter referred to as "institution," hereby gives assurance that it will comply with the Department of Health and Human Services (HHS) regulations for the Protection of Human Research Subjects (45 CFR 46, as amended) as specified below.

I. Statement of Applicability, Principles and General Policies.

A. Applicability.

1. Except as noted in I.A.2, this assurance is applicable to all activities which, in whole or in part involve research with human subjects if:
 - a. the research is sponsored by this institution, or
 - b. the research is conducted by or under the direction of any employee or agent of this institution in connection with his or her institutional responsibilities, or
 - c. the research is conducted by or under the direction of any employee or agent of this institution using any property or facility of this institution, or
 - d. the research involves the use of this institution's nonpublic information to identify or contact human research subjects or prospective subjects.
2. Only provisions II.A.1-6; II.B.1.a,b,d,e,f; and III. of this assurance are applicable to the activities listed above if the only involvement of human subjects will be in one or more of the categories exempted or waived under 45 CFR 46.101(b)(1-5) or 46.101(e).

B. Ethical Principles.

1. This institution is guided by the ethical principles regarding all research involving humans as subjects as set forth in the report of the National Commission for the Protection of Human Subjects of Biomedical and Behavioral Research entitled Ethical Principles and Guidelines for the Protection of Human Subjects of Research (the "Belmont Report," attached).
2. In addition, the requirements set forth in Title 45, Part 46 of the Code of Federal Regulations (45 CFR 46) will be met for all applicable HHS-funded research and, except for the requirements for reporting information to HHS, all other research without regard to source of funding.

C. Institutional Policy.

1. The University of Notre Dame recognizes an inherent obligation to see that the rights and well-being of persons

who serve as subjects in projects conducted under its auspices are adequately protected. In the matter of protection of human subjects, the University relies on the good judgment of its faculty and administration augmented by a special review committee and hereby calls for a posture of heightened sensitivity and special scrutiny on the part of initiators of any program and that of immediate supervisors as the primary agents of the University in these matters.

2. It is the policy of this institution that, except for those categories specifically exempted by 45 CFR 46, all research covered by this assurance will be reviewed and approved by an institutional review board (IRB) which has been established under an assurance of compliance negotiated with HHS. The IRB at Notre Dame will be known as the University Committee on the Protection of Human Subjects (UCPHS). The involvement of human subjects in research covered by this policy will not be permitted until the UCPHS has reviewed and approved the research protocol and informed consent has been obtained in accord with and to the extent required by 45 CFR 46.116. Certification of the UCPHS review and approval for all HHS-funded research involving human subjects will be submitted to HHS within 60 days following the submission of the application or proposal for funding. Furthermore, the UCPHS review of research on a continuing basis will be conducted at appropriate intervals but not less than once per year.
3. It is the policy of this institution that unless informed consent has been specifically waived by the UCPHS in accordance with 45 CFR 46.116, no research investigator shall involve any human being as a subject in research unless the research investigator has obtained the legally effective informed consent of the subject or the subject's legally authorized representative.
4. This institution acknowledges that it bears full responsibility for the performance of all research involving human subjects, covered by this assurance.
5. This institution bears full responsibility for complying with federal, state or local laws as they may relate to research covered by this assurance.
6. This institution has established and will maintain a UCPHS in accordance with 45 CFR 46. The UCPHS will have the responsibility and authority to review, approve, disapprove or require changes in appropriate research activities involving human subjects.
7. This institution has provided and will continue to provide both meeting space

for the UCPHS and sufficient staff to support its review and record-keeping duties.

8. This institution encourages and promotes constructive communication among the research administrators, department heads, research investigators, the UCPHS, other institutional officials, and human subjects as a means of maintaining a high level of awareness regarding the safeguarding of the rights and welfare of subjects.
9. This institution will maintain documentation of UCPHS activities as prescribed by 45 CFR 46.115.
10. This institution will exercise appropriate administrative overview carried out at least annually to insure that its practices and procedures designed for the protection of the rights and welfare of human subjects are being effectively applied and are in compliance with the requirements of 45 CFR 46 and this assurance.
11. This institution will comply with the policies set forth in 45 CFR 46 Subpart B, which provide additional protections pertaining to research, development, and related activities involving fetuses, pregnant women, and in vitro fertilization of human ova.
12. This institution will comply with the policies set forth in 46 CFR 46 Subpart C, which provide additional protections for prisoners involved in research.
13. This institution, in addition to complying with the requirements of 45 CFR 46, will consider additional safeguards in research when that research involves children, individuals institutionalized as mentally disabled, and other potentially vulnerable groups.
14. This institution will comply with the requirements set forth in 45 CFR 46.114 regarding cooperative research projects. When research covered by this assurance is conducted at or in cooperation with another entity, all provisions of this assurance remain in effect for that research. This institution may accept, for the purpose of meeting the UCPHS review requirements, the review of an IRB established under another assurance of compliance with HHS. Such acceptance must be in writing, approved and signed by this institution's UCPHS, approved and signed by correlative officials of each of the other cooperating institutions. A copy of the signed agreement must be forwarded to the Office for Protection from Research Risks (OPRR), HHS.
15. This institution shall provide each individual at the institution conducting or reviewing human subject research (e.g., PIs, department

heads, clinical care staff, research administrators, UCPHS members) with a copy of this institutional assurance of compliance and copies of any future modifications which may be made to this assurance, with the exception of changes in UCPHS membership.

information circulars

Additional information on all circulars listed may be obtained by calling Extension 7432. Please refer to the circular number.

engineering

American Society for Engineering Education Summer Faculty Programs

No. FY84-282

Program:

NASA and the Office of Naval Research will sponsor 1984 Summer Faculty Research Programs at various research and development installations throughout the United States. Participants must be U.S. citizens, and for Navy appointments either holding or eligible for a Department of Defense Security Clearance of Secret. Two years experience in teaching or research are preferred.

Terms:

Stipends of \$650 per week for ten weeks, plus a travel allowance, and in the Navy program for a preprogram visit.

Duration:

Ten weeks, from June 4-August 10, 1984.

For Application Forms and Information Contact:

Summer Faculty Programs
American Society for Engineering
Education
11 Dupont Circle, Suite 200
Washington, DC 20036

general

S&H Foundation Lectureship Program

No. FY84-283

Program:

Proposals for grants under the 1984-1985 S&H Foundation Lectureship Program should be submitted by February 15, 1984. This program, which focuses on fields of public affairs and social sciences, has two purposes: 1. To enrich established curricula by bringing scholarly and public experts into direct contact with faculties and students; and 2. To

extend the influence of the sponsoring school into the nearby community by presentation of at least one public lecture by each distinguished visitor.

For More Information Contact:

Prof. Richard Schlatter
Director
S&H Lectureship Program
4 Huntington Street
Rutgers University
New Brunswick, NJ 08903
(201) 932-7912

current publications and other scholarly works

Current publications should be mailed to the
Division of Research and Sponsored Programs,
Room 314, Administration Building.

ADMINISTRATORS PUBLICATIONS

Conklin, Richard W.
R.W. Conklin. 1983. Fannie, Jack and Their
Thanksgiving Cats. St. Paul Pioneer Press,
November 23:6A.

COLLEGE OF ARTS AND LETTERS

American Studies

Schlereth, Thomas J.
T.J. Schlereth. 1983. Special Editor.
American Material Culture. American
Quarterly 35(3):1-112.
T.J. Schlereth. 1983. American Studies
and Students of American Things. Ameri-
can Quarterly 35(3):236-242.

Art

Geoffrion, Moira M.
M.M. Geoffrion. 1983. Three sculptures.
"PaperChase" Show, Artlink Art Space,
Fort Wayne, Indiana.
M.M. Geoffrion. 1983. Four drawings,
Lyric Reach; From Around the Corner; It
Was That Time Again; After the Leap.
"The ACT of Drawing" Show, Warner Gallery,
South Bend Art Center, South Bend, Indiana.
M.M. Geoffrion. 1983. Three-dimensional
drawing, Winter Mists Are Upon Us. "The
ACT of Drawing" Show, Warner Gallery,
South Bend Art Center, South Bend, Indiana.
Kinsey, Douglas
D. Kinsey. 1983. Eighteen monotypes.
Morley Gallery, Morley College, London,
England.

Economics

Croteau, John T.
J.T. Croteau. 1983. Warns CU's in Danger

of Losing Altruism, Key to Uniqueness.
Credit Union News 4(5):4,16,17.

English

Fredman, Stephen A.
S.A. Fredman. 1983. American Poet's
Prose and the Crisis of Verse. Ameri-
can Poetry 1(1):49-63.

History

De Santis, Vincent P.
V.P. De Santis. 1983. Review of J.A. Fry's
Henry S. Sanford: Diplomacy and Business
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The American Historical Review 88:1075.

COLLEGE OF SCIENCE

Biology

Craig, Jr., George B.
G.B. Craig, Jr. 1983. Chairman. Manpower
Needs and Career Opportunities in the
Field Aspects of Vector Biology. Report
of a Workshop, BOSTID, National Research
Council. National Academy Press,
Washington, D.C. 53 pp.

Chemistry

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D.K. Strickland, V. Sator de Serrano,
S-Y. Chan, M. Pollard and F.J. Castellino.
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Plasminogen Activator from Cultured Rat
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Chemical Review 83(3):241-261.
Nowak, Thomas L.
A.L. Makinen and T.L. Nowak. 1983. 3-Mer-
captopycolinate. A Reversible Active
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olpyruvate Carboxykinase. Journal of
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E. Rivera and R.H. Schuler. 1983.
Intermediates in the Reduction of 5-
Halouracils by $\text{e}_{\text{aq}}^{-1}$. Journal of
Physical Chemistry 87(20):3966-3971.
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chemistry 22(19):4444-4449.
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S. Hashimoto, J.K. Thomas, D.F. Evans, S.
Mukherjee and B.W. Ninham. 1983. Unusual
Behavior of Hydropoxide Surfactants.
Journal of Colloid and Interface Science
95(2):594-596.
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D.H. Winicur, J.L. Hardwick and S.N. Murphy.

1983. Spectroscopic Studies of the Helium-Acetylene Flame. Combustion and Flame 53:93-102.

Mathematics

Sakane, Yusuke

Y. Sakane. 1983. On Non-Singular Subvarieties of Codimension 2 in a Complex Projective Space. Saitama Mathematical Journal 1:9-27.

Sommese, Andrew J.

A.J. Sommese and A. Bialynicki-Birula. 1983. Quotients by C^* and $SL(2, C)$ Actions. Transactions of the American Mathematical Society 279(2):773-800.

Stanton, Charles M.

C.M. Stanton. 1983. A Characterization of the Ball by its Intrinsic Metrics. Mathematische Annalen 264:271-275.

Microbiology

Kulpa, Jr., Charles F.

C.F. Kulpa, Jr., R.L. Irvine and S.A. Sojka. 1983. Editors. Impact of Applied Genetics in Pollution Control. Ave Maria Press, Notre Dame, Indiana.

Pollard, Morris

D.K. Strickland, V. Sator de Serrano, S-Y. Chan, M. Pollard and F.J. Castellino. 1983. Purification and Properties of a Plasminogen Activator from Cultured Rat Prostate Adenocarcinoma Cells. Biochemistry 22(19):4444-4449.

Physics

Davis, Thomas C.

T.Y. Chen, E.W. Jenkins, K.T. Johnson, K.W. Lai, J. LeBritton, Y.C. Lin, A.E. Pifer, H.C. Fenker, D.R. Green, J.R. Albright, R.N. Diamond, J.H. Goldman, S.L. Hagopian, J.E. Lannutti, J.E. Piper, C.C. Chang, T.C. Davis, J.A. Poirier, A. Napier, J.M. Marraffino, C.E. Roos, J.W. Waters, M.S. Webster, E.G.H. Williams, G.B. Collins, J.R. Ficenec and W.P. Trower. 1983. Diffractive Production of $K_S^0 K_S^0 \pi^-$ in $\pi^- N$ Interactions at 200 GeV/c. Physical Review D 28(9):2304-2307.

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W.R. Johnson. 1983. Theoretical Study of Photoabsorption for the Palladium 4d Subshell. Journal of Physics B: Atomic Molecular Physics 16:177-186.

W.R. Johnson and K.T. Cheng. 1983.

Electron-Electron Correlation in Highly Charged Atoms. Pages 463-487 in, W. Greiner, ed., Quantum Electrodynamics of Strong Fields.

W.R. Johnson. 1983. Relativistic Many-Body Calculations. Pages 149-170 in, I. Lindgren, ed., Atomic Physics B. Plenum Press.

W.R. Johnson, D. Kolb and K.-N. Huang.

1983. Electric Dipole, Quadrupole and Magnetic Dipole Susceptibilities and Shielding for Closed-Shell Ions of the He, Na, Sr, Cu^+ , Kr, Pd, and Xe Isoelectronic Sequences. Atomic Data and Nuclear Data Tables 28:333-340.

K.T. Cheng and W.R. Johnson. 1983. Orbital Collapse and Photoionization of Inner 4d Shells of Xenon-like Ions. Physical Review A 28:2820-2828.

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Photoionization Calculation for 3d and 3p Subshells of Mercury in the Decoupled Relativistic Random-Phase Approximation. Physics Letters 97A:335.

F.A. Parpia and W.R. Johnson. 1983.

Applications of the Time-Dependent Local Density Approximation to the Photoionization of Mercury. Journal of Physics B: Atomic Molecular Physics 16:L375-L379.

P.C. Deshmukh and W.R. Johnson. 1983.

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awards received

IN THE MONTH OF NOVEMBER, 1983

Department or Office	Principal	Short title	Sponsor	Dollars Months
AWARDS FOR RESEARCH				
Radiation Lab.	Huo, Schuler	Photodiagnostics of Combustion	Natl. Aero. Space Admin.	67,035 12
Aerospace Mech. Eng.	Mueller	Structure of Separated Flow Regions at Leading Edge of Airfoils	Natl. Aero. Space Admin.	44,957 12
Aerospace Mech. Eng.	Nelson	Leading Edge Vortex Structure	Natl. Aero. Space Admin.	34,482 12
Chemistry	Basu	Glycolipid Metabolism in Normal and Pathological Tissues	Natl. Inst. Health	112,664 12
Metallurgical Eng.	Kosel	Microstructural Effects in Abrasive Wear	Dept. Energy	84,700 12
Aerospace Mech. Eng.	Yang, Lloyd	Three Dimensional Convection- Radiation Interactions	Natl. Sci. Fdn.	103,671 12

Department or Office	Principal	Short title	Sponsor	Dollars Months
Aerospace Mech. Eng.	Doligalski, Batill	Vortex Loop Dynamics	Dept. Air Force	69,636 12
Chemistry	Castellino	Blood Coagulation Protein-Metal Ion-Lipid Interactions	Natl. Inst. Health	145,129 12
AWARDS FOR FACILITIES AND EQUIPMENT				
Electrical Eng.	Cohn	Loan of Equipment	Intl. Bus. Machines	-- 24
AWARDS FOR SERVICE PROGRAMS				
Inst. Past. Soc. Min.	Pelton	Notre Dame Institute Clergy Education	---	1,500 --
Inst. Past. Soc. Min.	Melloh	Notre Dame Center Pastoral Liturgy	---	2,818 --
Inst. Past. Soc. Min.	Melloh	Notre Dame Center Pastoral Liturgy-Publications	---	145 --
AWARDS FOR OTHER PROGRAMS				
Biology	Bender	Medical Service Grant	Ind. St. Bd. Health	22,000 12

proposals submitted

IN THE MONTH OF NOVEMBER, 1983

Department or Office	Principal	Short title	Sponsor	Dollars Months
PROPOSALS FOR RESEARCH				
Chemical Eng.	Kohn	Liquid-Liquid-Vapor Equilibria in LNG Systems	Gas. Proc. Assocn.	46,886 12
Biology	Saz	Intermediary Metabolism of Helminths	Natl. Inst. Health	139,731 12
Mathematics	Roberts	Operators with Multiple Characteristics	Natl. Sci. Fdn.	27,790 24
Mathematics	Boyce	Finite Groups of Lie Type	Natl. Sci. Fdn.	27,364 24
Mathematics	Lockhart	Hodge and Fredholm Theory on Non-Compact Manifolds	Natl. Sci. Fdn.	45,847 36
Chemical Eng.	Carberry	Fluidized Bed Catalytic Reactor Studies	Amer. Chemical Society	72,538 36
Aerospace Mech. Eng.	Daschbach, Jerger	System and Process Control/ Assurance-Energy Balance	Natl. Sci. Fdn.	168,067 15
Mathematics	Hahn	Morita Theory and the Classical Groups	Natl. Sci. Fdn.	58,964 36
Civil Eng.	Ketchum	Water Pollution Control in Central America	Rockefeller Bros. Fund	213,494 12
Advanced Studies	Duman	Minority High School Research Apprentice Program for 1984	Natl. Inst. Health	4,485 12
Mathematics	Stoll	Theory of Several Complex Variables	Natl. Sci. Fdn.	195,907 36
Biology	Grimstad	Ecology of Vectors of Jamestown Canyon Virus	Natl. Inst. Health	79,888 12

Department or Office	Principal	Short title	Sponsor	Dollars Months
Psychology	Borkowski, Day	Computer Game-Playing and Academic Success	(numerous sponsors)	163,703 60
So. Bend Cent. Med. Educ.	Olson	Anatomy, Physiology and Metabolic Function of the Fish Gill	Natl. Sci. Fdn.	183,826 36
Aerospace Mech. Eng.	Howland	Quadratic Analytical Solution of Perturbed Periodic Solutions	Natl. Sci. Fdn.	68,850 24
Biology	Weinstein	Development of Parasitic Helminths <u>In Vitro</u>	Natl. Inst. Health	129,105 12
Mathematics	Smyth	Minimal Surfaces and Sub- varieties of Abelian Varieties	Natl. Sci. Fdn.	41,255 24
Psychology	Lapsley	A Neo-Piagetian Analysis	Fdn. Child Dev.	22,066 12
Aerospace Mech. Eng.	Ng	Concentration Measurements in an Excited Jet	Natl. Sci. Fdn.	131,491 24
Aerospace Mech. Eng.	Kamman	Multibody Systems Having Closed Loops and Specified Motions	Natl. Sci. Fdn.	131,478 24
Government Intl. Studies	Kitschelt	Ecological Parties in West Germany and Belgium	German Marshall Fund	27,840 12
Aerospace Mech. Eng.	Cain	Linear Stability Analysis of a Leading Edge Separation Bubble	Natl. Sci. Fdn.	125,858 24
Aerospace Mech. Eng.	Chan	Natural Convection in Screens	Natl. Sci. Fdn.	123,183 24
Law School	Fick, Link	Development of Course Materials in Internal Union Affairs	J.F. English Endow. Fund	16,699 4
Mathematics	Taylor	Algebraic and Geometric Topology	Natl. Sci. Fdn.	94,064 12
Electrical Eng.	Huang	Statistical Theory of Signal Detection and Estimation	Natl. Sci. Fdn.	110,459 24
Electrical Eng.	Kwong	Polycide Interconnect, Silide Contact and Shallow P-N Junction	Natl. Sci. Fdn.	121,518 24
PROPOSALS FOR FACILITIES AND EQUIPMENT				
Mathematics	Wong	Mathematical Sciences Research Equipment	Natl. Sci. Fdn.	79,796 --
Chemistry	Fehlner	Purchase of a High Resolution Mass Spectrometer	Natl. Sci. Fdn.	353,850 12
PROPOSALS FOR INSTRUCTIONAL PROGRAMS				
Civil Eng.	Ketchum	Environmental Health Engineering Training Program	Environ. Prot. Agency	7,797 36
Law School	Phelps	Doing Justice: Literary Texts, Humanistic Values and Courts	Ind. Comm. Humanities	5,022 5
PROPOSALS FOR SERVICE PROGRAMS				
School Architecture	Bellalta, Wesley, Bellalta	Environment and Art in Catholic Worship 1978	St. Stanislaus Kostka Church	1,472 2
PROPOSALS FOR OTHER PROGRAMS				
History	Pike	Lilly Endowment Faculty Open Fellowship 1984-85	Lilly Endow., Inc.	53,665 12
University Libraries	Miller	College Library Resources Program	Dept. Educ.	5,000 12
Mod. Class. Languages	Cervigni	Lilly Endowment Faculty Open Fellowship 1984-85	Lilly Endow., Inc.	43,374 10

Department or Office	Principal	Short title	Sponsor	Dollars Months
Philosophy	Manier	Lilly Endowment Faculty Open Fellowship 1984-85	Lilly Endow., Inc.	51,862 12
Earth Sciences	Murphy	Attract More Minority Students to Major in Geology	(numerous sponsors)	59,104 6wk
Mathematics	Connolly	Geometric Algebra and Ends of Maps	Natl. Sci. Fdn.	18,863 1wk
Art	Geoffrion	Visiting Artists	Natl. Endow. Arts	28,460 7

summary of awards received and proposals submitted

IN THE MONTH OF NOVEMBER, 1983

AWARDS RECEIVED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	6	524,121	2	138,153	8	662,274
Facilities and Equipment	1	0	0	0	1	0
Instructional Programs	0	0	0	0	0	0
Service Programs	0	0	3	4,463	3	4,463
Other Programs	1	22,000	0	0	1	22,000
Total	8	546,122	5	142,616	13	688,737

PROPOSALS SUBMITTED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	10	978,703	17	1,593,653	27	2,572,356
Facilities and Equipment	0	0	2	433,646	2	433,646
Instructional Programs	1	7,797	1	5,022	2	12,819
Service Programs	0	0	1	1,472	1	1,472
Other Programs	1	59,104	6	201,224	7	260,328
Total	12	1,045,604	27	2,235,017	39	3,280,621

closing dates for selected sponsored programs

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

Agency	Programs	Application Closing Dates
American Cancer Society	Faculty Research Grants	March 1, 1984
American Cancer Society	Junior Faculty Research Grants	March 1, 1984
American Cancer Society	Postdoctoral Fellowship	March 1, 1984
American Cancer Society	Research Professorships	March 1, 1984
American Cancer Society	Scholars in Cancer Research	March 1, 1984
American Council of Learned Societies	Travel Grants for Humanists to International Scholarly Meetings Abroad	March 1, 1984
National Academy of Sciences	Exchange Programs	March 1, 1984
The Newberry Library	Short-Term Resident Fellowships for Individual Research	March 1, 1984
Damon Runyon-Walter Winchell Cancer Fund	Postdoctoral Fellowship Grant in Cancer Research	March 15, 1984
Woods Hole Oceanic Institution	Marine Policy and Ocean Management Awards	March 1, 1984

notre dame report

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