

notre dame report

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the university

nieuwland chair in science named

Dr. J. Kerry Thomas, professor of chemistry, has been appointed to the Nieuwland Chair in Science, according to Prof. Timothy O'Meara, provost.

A native of Wales, Thomas studied chemistry and radiation chemistry at the University of Manchester, England, where he received B.Sc., Ph.D. and D.Sc. degrees. From 1957-58 he was a postdoctoral fellow at the National Research Council in Ottawa, Canada, and later conducted research on radiation induced surface graft-polymerization in Harwell, England. From 1960-70 Thomas was a researcher at the Argonne National Laboratory where he developed the short-pulsed nanosecond laser photolysis and pulse radiolysis techniques now widely used in physical chemistry research. He used his own techniques to study the fundamental chemical processes induced by radiation.

Thomas joined the Notre Dame faculty in 1970, specializing in physical and radiation chemistry. He received the research award of the Radiation Research Society in 1974, and in 1975 was a Gast Professor at the Hahn Meitner Institute in Berlin. He is a member of several professional societies and has written over 200 research papers and review articles.

The Nieuwland Chair in Science is a new, fully-endowed chair created by the University to memorialize Rev. Julius Nieuwland, C.S.C. It was the formulae Nieuwland discovered that led to the development of synthetic rubber in 1931.

law school expansion

A \$4 million expansion of the Notre Dame Law School has been announced. A major reason for the move is the improvement of library facilities. The Kresge Law Library now has about 160,000 volumes, and its new capacity will be around 300,000. Law School Dean David T. Link said there

would also be additional classrooms and office space, as well as a moot court. Enrollment of the school, now about 500, will increase slightly.

The expansion, which includes an underground level as well as three above-ground stories, is expected to be to the east and southeast of the 54-year-old tudor gothic building and add about 35,000 square feet of space. The Bloomington, Minn., firm of Ellerbe Architects and Engineers has been retained to draw up plans. The University will soon announce a fund-raising effort to offset the cost of construction.

hesburgh to chair forum for business/education

Rev. Theodore M. Hesburgh, C.S.C., president, was named chairman of the Business-Higher Education Forum (BHEF) at the group's semiannual meeting in Scottsdale, Ariz., Jan. 26-28.

Founded in 1978 by the American Council on Education, the BHEF is a national assemblage of leading corporate and academic chief executive officers formed to advance common interests of business and higher learning. Father Hesburgh succeeds Robert Anderson, chief executive officer of the Rockwell International Corporation, and will serve two years.

In addition to discussing the outlook for higher education throughout the remainder of the decade, Forum members will discuss the quality of business education and review two special Forum reports for later dissemination: "Preserving and Enhancing Quality in Higher Education: The Corporate Stake," and "Meeting the Competitive Challenge in Manufacturing: The Need to Automate." Last May, the Forum presented a widely praised report to President Reagan on the need for improving the ability of American industry and workers to compete in global markets.

Vol. 13, No. 10

Feb. 3, 1984

Notre Dame Report (USPS 707-080) is an official publication published fortnightly during the school year, monthly in the summer, by the University of Notre Dame, Department of Information Services. Second-class postage paid at Notre Dame, Ind. Postmaster: Please send address corrections to: Editor, Notre Dame Report, c/o Rm. 212, Administration Building, Notre Dame, IN 46556

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new taxation sequence for mba's

Candidates for the master's degree in business administration will be able to concentrate in taxation, according to a new sequence of studies planned to begin in June. The 11-month program extends through one summer session and two regular semesters and includes one or more courses in the Notre Dame Law School.

Inauguration of the new program resulted from an increasingly complex series of tax acts passed during the last 15 years and the growing demand on the part of the public accounting firms, business corporations, financial organizations and governmental agencies for highly trained tax professionals. The goal of the taxation sequence, according to James Wittenbach, coordinator of the program, is to train students who will be able to integrate tax factors into business planning and decision-making and to communicate well with other professionals, especially lawyers and auditors. Students with an undergraduate degree in business and at least three credit hours in an income tax course are eligible to enroll in the new program.

third world relief campaign

Notre Dame's tenth annual Third World Relief Fund will again be designed to support private voluntary agencies serving the basic needs of the poorest sections of the population in Africa, Asia and Latin America.

As in previous years, contributions can be channeled to any or all of the following agencies: Catholic Relief Services, Church World Service, CARE, Co-workers of Mother Teresa in America, Interreligious Foundation on Community Organizations/RAINS, OXFAM-America, The United Nations Children's Fund (UNICEF), and Caritas/Bangladesh.

Faculty members and administrative staff will be sent a report on last year's campaign and a pledge card. As conditions are deteriorating for the poorest of the Third World's people, the Committee for the Third World Relief Fund believes there is no better means at the University community's disposal to help check this trend than the self-help focus of the agencies listed above.

nd joins apple university consortium

The University has joined the Apple University Consortium (AUC) by agreeing to purchase \$2 million of Apple Computer products over the next three years. Part of the agreement includes substantial discounts to faculty, students and staff through an on-campus computer store.

Notre Dame is one of 24 national universities to join the consortium, aimed at developing new applications for computers in education. Commitments from the schools total more than \$60 million, most going toward Apple's new Macintosh computer.

Notre Dame's College of Arts and Letters is developing plans to use the Macintoshes in three instructional laboratories, and is formulating its own courseware -- software programs used solely for teaching. Other applications are being developed in the Colleges of Engineering and of Science.

The agreement also calls for the member universities to meet regularly to discuss new applications and developments in courseware. Richard Spencer, assistant provost for computing, said Notre Dame will meet twice a year with the other 23 members, possibly more often with its regional counterparts -- Northwestern University, the University of Michigan and the University of Chicago.

A General Microcomputer, Inc., satellite store in the basement of the LaFortune Student Center will offer discounts to students, faculty and staff exceeding 50 percent on some Apple products -- a Macintosh system retailing at \$2,495 will be offered at \$1,090. Individual purchases at the reduced prices are limited to one system per full-time student, faculty or staff member. Computer instruction courses and consulting services will be offered at no cost.

Notre Dame's membership in the consortium is also part of a long-range computing plan to establish an on-campus computer network. All Apple systems installed under the terms of this agreement will be compatible with the network.

faculty notes

honors

J. Douglas Archer, staff librarian, has been appointed to the Evaluation and Measurement of Service Committee, Machine Assisted Reference Section and Adult Services Division of the American Library Association.

Thomas P. Bergin, dean of continuing education, has been appointed chairman of a national task force on "The Role of Institutional Representatives" by the University Continuing Education Association in Washington, D.C. The task force of six distinguished educators will begin a year-long study of the association's priorities and the relationship with the educational institutions at a Notre Dame meeting scheduled for Feb. 13 and 14.

Patrick Horsbrugh, professor emeritus of architecture, has been appointed by the president of the American Institute of Architects to serve on the Committee of Regional Planning and Natural Resources. He was invited to serve on the international editorial board of the new British quarterly, Land Use Policy, covering urbanism, population pressures, industrial economics and environic consequences. He was also invited to serve on the international editorial board of the new Australia quarterly, Geotecture, the official publication of the Geotecture International Association, promoting the subject of subterranean accomodation and design for a variety of purposes.

Donald Sniegowski, associate professor of English, served on the Indiana Committee of Selection for the Rhodes Scholarship Trust, in Indianapolis, Ind., Dec. 13-14.

activities

Panos J. Antsaklis, assistant professor of electrical engineering, presented a paper entitled "Canonical Forms Under Dynamic Compensation and Zero Structure at Infinity" at the 22nd IEEE Conference on Decision and Control, San Antonio, Tex., Dec. 14-16. He also participated in professional meetings of the IEEE Control Systems Society and organizational meetings of the 1984 American Control Conference.

Joseph P. Bauer, professor of law, was a guest on the David Barrett Straight Talk program on WNIT-TV, Channel 34, on Dec. 19. He spoke about "The Antitrust Implications of the Breakup of the American Telephone and Telegraph Company."

Esmée Cromie Bellalta, associate professor of architecture, presented an invited lecture, "What Should Be the Structure of Space in Contemporary Society?", at the Graduate School of Design, Harvard University, Cambridge, Mass., Jan. 5.

Jaime J. Bellalta, professor of architecture, gave two invited talks at the Graduate School of Design, Harvard University, Cambridge, Mass.: "The Notions of 'World' and 'Environment' in Contemporary Architecture," Jan. 4; "An Agenda for a Post-Pinochet Era: A Role for Public Health," Jan. 6.

James O. Bellis, associate professor of anthropology, delivered a lecture on "The Archaeological Evidence for Pre-European Gold-mining on the Gold Coast of West Africa" to the anthropology staff of the British Museum, Museum of Mankind, London, England, on Nov. 15.

Eileen T. Bender, assistant professor of English, gave a presentation entitled "Chaos Ex Machina: Post-Holocaust Visions in Recent Novels by Ozick and Malamud" at the Ninth Annual Conference on Literature and Film, Florida State University, Tallahassee, Fla., Jan. 26-28.

Stephen R. Carpenter, assistant professor of biology, presented a seminar entitled "Biological Control of Lake Productivity" at Holcomb Research Institute, Butler University, Indianapolis, Ind., Feb. 3.

Denis Goulet, O'Neill professor of education for justice, taught a course on "Designing Education for Development" to the faculty of the Universidad de Yucatan (Merida), Jan. 5-12. The course was sponsored by the Centro de Desarrollo Universitario of the University as part of its series on "Philosophy of Education." On Jan. 11, Goulet delivered a lecture to faculty members in the Department of Engineering on "Philosophical Foundations of Engineering Education."

Paul E. W. Hemmeter, visiting instructor of management, presented a tutorial on "The Role of the Microcomputer in the Management Information Systems Curriculum" at the 15th Annual Meeting of the American Institute for Decision Sciences held in San Antonio, Tex., on Nov. 22.

Patrick Horsbrugh, professor emeritus of architecture, addressed the Second Chihuahuan Desert Symposium on "Urbanism of the Chihuahuan Desert Region," Chihuahuan Desert Research Institute, Sol Ross State University, Tex., Oct. 14. He addressed the Education Task Force, White River Park Commission, Indianapolis, Ind., on proposals for the Acme-Evans Bakery Exhibit and the World's first museum illustrating the influence of winter wheat on the human destiny, Nov. 7.

Donald P. Kommers, professor of government and law, was the respondent to four papers on a panel dealing with "The Impact of Public Policy" at the Fifteenth Annual Meeting of the Northeastern Political Science Association, Philadelphia, Pa., Nov. 18. He delivered an invited lecture, "Judicial Review in West Germany," at Cornell University, Ithaca, N.Y., on Dec. 1.

Ralph McInerny, Michael P. Grace professor of medieval studies, director of the Medieval Institute, director of the Maritain Center, and professor of philosophy, was a discussant on a television panel focusing on "Human Nature and Morality," with William F. Buckley, David Solomon, associate professor of philosophy, and Gerhart Niemeyer, professor emeritus of government and international studies, WNIT-TV, Elkhart, Ind., Jan. 6. McInerny also gave a presentation on "Aristotle's Ethics" at Trinity School, South Bend, Ind., Jan. 6.

Rev. Ernan McMullin, professor of philosophy, gave a colloquium entitled "Do the Laws of Physics Lie?" at the London School of Economics, England, Nov. 29. He also lectured on "Rational and Social Factors in the History of Science" at University College, Cork, Ireland, on Dec. 5, and gave a seminar on "Recent Discussions of Scientific Realism."

Thomas J. Mueller, professor of aerospace and mechanical engineering, presented a paper entitled "Experimental Studies of Boundary Layer Transition on an Axisymmetric Body," at the AIAA 22nd Aerospace Sciences Meeting in Reno, Nev., Jan. 8-12.

Leonard E. Munstermann, assistant faculty fellow in biology, presented an invited paper entitled "Clines in Genetic Variation in *Aedes Triseriatus*," at the Second International Workshop on Mosquito Ecology at Welaka Research and Education Center, Welaka, Fla., Jan. 9-12. He also chaired a session on "Ecological Genetics."

Robert C. Nelson, associate professor of aerospace and mechanical engineering, presented a paper entitled "The Influence of Airfoil Roughness on the Performance of Flight Vehicles at Low Reynolds Numbers," at the AIAA Meeting in Reno, Nev., Jan. 8-12.

Sharon A. Pocock, visiting instructor in modern and classical languages, delivered a paper, "The Prosifier's Role: Fidelity to Source, Elucidation, and Modification in the Prose Guy de Warwick," at the 100th Modern Language Association Convention, New York City, Dec. 27-30.

Charles E. Rohrs, assistant professor of electrical engineering, organized and chaired the invited session "Robustness Issues in Adaptive

Control," at the 22nd IEEE Conference on Decision and Control, in San Antonio, Tex., Dec. 14-16. He also presented an invited paper entitled "A Frequency Selective Adaptive Controller" at the 22nd IEEE Conference on Decision and Control in San Antonio, Tex., Dec. 14-16.

Howard J. Saz, professor of biology, presented a talk entitled "Carbohydrate Utilization in Ascaris Reproductive Tissues" at the American Society of Parasitologists held in San Antonio, Tex., on Dec. 8.

Lynn Thiesmeyer, assistant professor of English, presented a paper, "Isherwood's Narrative Eye and Hitler's Berlin," at the Colloquium on Modern Literature and Film, West Virginia University, Morgantown, Sept. 24.

Anthony M. Trozzolo, Charles L. Huisman professor of chemistry, served as session chairman and as a member of the organizing committee for the

Conference on Singlet Molecular Oxygen (COSMO 84), Clearwater Beach, Fla., Jan. 3-7.

Robert P. Vecchio, associate professor of management, chaired a paper session entitled "Research Methodology in Organizational Behavior" at the annual meeting of the Southern Management Association, in Atlanta, Ga., Nov. 17.

F. Ellen Weaver, associate professional specialist in theology, gave a talk, "Cloister, Salon and Crossroads: The Role of Women in Jansenism," for the Notre Dame Women in Theology Lecture Series, Center for Social Concerns, Jan. 26.

Robert W. Williamson, associate professor of accountancy, gave a presentation entitled "Financial Ratios and Their Use in Management Accounting" to the Michiana Chapter of the National Association of Accountants, at the University of Notre Dame, Jan. 17.

administrators' notes

honors

G. Thomas Bull, director of personnel, was elected president of the Michiana Chapter of the American Society of Personnel Administration (ASPA) for 1984.

William J. Hickey, Jr., director of University Food Services, has been honored by having the University Food Services selected to receive a "Restaurateur of Distinction" award in a national competition for hotels, restaurants and institutions sponsored by Restaurants and Institutions magazine. The Notre Dame dining halls, will receive the "Ivy" award for 1984 for winning first place among institutions nominated. Others in this category included Bowling Green University, Chemical Bank of New York, Continental Illinois Bank of Chicago, and Motorola Food Services of Schaumburg, Ill.

Joseph O'Brien, associate director of athletics, was voted Business Manager of the Year for 1983 by the members of the College Athletic Business Managers Association in that organization's convention in Dallas, Tex., Jan. 8-11. O'Brien was also inducted into the First Interstate Bank Athletic Foundation Hall of Fame, formerly the Helms Foundation, in recognition of this achievement. O'Brien served the 500-member CABMA group as its president during 1983.

activities

Richard W. Conklin, director of Information Services, made a guest appearance on WNDU-TV's "Window on Campus," Dec. 28. He delivered a speech, "Notre Dame and South Bend: A Unique Town-Gown Relationship," at the Achievement Forum, South Bend, Ind., Jan. 19. He also participated in a panel discussion, "News Reporters and Newsmakers," at the South Bend SDX Chapter, Jan. 24.

William J. Hickey, Jr., director of University Food Services, presented a seminar lecture on "Pride, Motivation and Effective Selling for Successful Results" to the National Facts Management Seminar, Frosty Acres, F.A.B., Inc., in San Antonio, Tex., Jan. 18-20.

advanced studies

notes for principal investigators

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

(continuation)

B. Responsibilities of the Office of Advanced Studies - Division of Research and Sponsored Programs (OAS-DRSP).

1. Institutional determinations concerning exemptions, sponsorship, and certification.
 - a. The OAS-DRSP shall receive from the research investigators through their department heads all research protocols which involve human subjects.
 - b. The OAS-DRSP is responsible for reviewing the preliminary determinations of research investigators and department heads and for making final institutional determination whether research protocols qualify for exemption from coverage under 45 CFR 46.101.
 - c. The OAS-DRSP shall forward all non-exempt research protocols to the UCPHS for review.

- d. The OAS-DRSP shall distribute all exempted research protocols to the UCPHS for information and possible comment.
- e. All exempted research protocols and all protocols approved by the UCPHS which are being submitted for HHS funding shall be forwarded to HHS by the OAS-DRSP. When the UCPHS review and approval of a protocol is pending, the OAS-DRSP shall forward certifications to HHS within 60 days following submission. As appropriate, the UCPHS or the OAS-DRSP may negotiate protocol modifications with the research investigator. Certifications submitted to HHS by the OAS-DRSP must include:
 - (1) certification that the research was reviewed and approved by the UCPHS, established under this assurance (The identification numbers of this assurance and the UCPHS must be included in the certification.); or
 - (2) certification that the research was reviewed and approved by an IRB established under another assurance (The identification numbers of the approving IRB and the assurance under which it was established along with a copy of the signed agreement stipulated at I.C.14. above must be included with the certification.); or
 - (3) notification that the research was determined to be exempt from coverage under 45 CFR 46 or that coverage was waived.

- f. The OAS-DRSP shall keep research investigators aware of decisions and administrative processing affecting their respective protocols and shall return all disapproved protocols to the research investigators.
- 2. Receive appeal requests.
The OAS-DRSP shall receive all requested appeals of UCPHS decisions with attached protocols from the research investigators and forward those protocols to the Appeal Board on the Protection of Human Subjects (ABPHS) to be established in accordance with provisions of 45 CFR 46.
- 3. Comply with the Investigational New Drug or Device Certification Requirement.
 - a. The OAS-DRSP shall identify the test article (i.e., drug, biologic or device) in the certification to HHS when the proposal involves a test article and state whether the 30-day interval required for test articles has elapsed or was waived by the FDA.
 - b. If the 30-day interval has expired, the OAS-DRSP shall state in the certification to HHS whether the FDA

has requested that the sponsor continue to withhold or restrict the use of the test article for application in human subjects.

- c. If the 30-day interval has not expired and a waiver has not been issued, the OAS-DRSP shall send a statement to HHS upon expiration of the interval.
- 4. Certification requirement in cases of supplements to HHS funded protocols. The OAS-DRSP is responsible for submitting a certification to HHS, and when otherwise required by HHS, a supplement to an original protocol, when:
 - (1) it is proposed to involve human subjects, and the activity previously had only indefinite plans for the involvement of human subjects, or
 - (2) it is proposed to involve human subjects, and the activity previously had no plans for the involvement of human subjects, or
 - (3) it is proposed to change the involvement of human subjects and that involvement is significantly different from that which was initially approved by the UCPHS.

In addition, the OAS-DRSP shall insure that no human subjects are involved in research projects for which the filing of a supplement is required by HHS, prior to review of the submitted supplement and approval by appropriate HHS officials.

5. Retention of signed consent documents.

The OAS-DRSP shall designate procedures for the retention of the signed consent documents. These documents shall be retained for at least three years after termination of the last UCPHS approval period.

6. Reporting requirements.

The OAS-DRSP shall be responsible for promptly reporting information, as appropriate, to the UCPHS, the OPRR, and research investigators and department heads on a variety of issues. Information may flow from sources such as human subjects, research investigators, IRBs or other institutional staff.

Specifically, the OAS-DRSP shall:

- (1) Report promptly to the OPRR any instances of injuries to subjects and unanticipated problems involving risks to subjects or others;
- (2) Report to the UCPHS information received concerning non-compliance by research investigators, injuries to subjects, unanticipated problems involving risks, changes proposed in research activities and the progress of the research;
- (3) Maintain information concerning the UCPHS' reasons for the termination or suspension of UCPHS approval; and
- (4) Report promptly any changes in UCPHS membership to the OPRR.

C. UCPHS Structure.

1. Institutional establishment of the UCPHS and ABPHS.

- a. The President of the University, upon recommendation by the Vice President for Advanced Studies, appoints a standing committee of faculty representatives and public members with appropriate interest and qualifications. Appointments and reappointments will be for terms of three years. If the composition of the IRB should at any time, because of varying circumstances not meet the membership criteria established by 45 CFR 46.107, additional members will be appointed through special negotiations with the OPRR. This standing committee shall be known as the University Committee on the Protection of Human Subjects. The Committee is charged to recommend policies and procedures and to review proposals for the use of human subjects in the several University functions, principally training, educational demonstrations, research, and related activities.
- b. The ABPHS is appointed similarly to act as an appeal body when a re-

search investigator chooses to appeal a decision made by the UCPHS. The membership of the ABPHS is to be submitted to the Office of Protection from Research Risk (OPRR) at NIH prior to its functioning.

2. UCPHS membership requirements.

- a. The UCPHS is comprised of members from diverse backgrounds to promote complete and adequate review of research activities covered by this assurance, and has the professional competence necessary to review the specific research activities which will be assigned to it.
 - b. The UCPHS is sufficiently qualified through the experience and expertise of its members, and the diversity of the members' backgrounds including consideration of the racial and cultural backgrounds of members and sensitivity to such issues as community attitudes, to promote respect for its advice and counsel in safeguarding the rights and welfare of human subjects.
 - c. When research is reviewed involving a category of vulnerable subjects (e.g., prisoners, children, individuals institutionalized as mentally disabled), the UCPHS shall consult with individuals who have as a primary concern the welfare of these subjects.
 - d. The UCPHS includes both male and female members.
 - e. The UCPHS includes members representing a variety of professions.
 - f. The UCPHS includes at least one member whose primary expertise is in a nonscientific area.
 - g. The UCPHS includes at least one member who is not otherwise affiliated with the institution and who is not a part of the immediate family of a person affiliated with the institution.
 - h. The secretary of the UCPHS is also the director of OAS-DRSP.
3. The membership lists and qualifications of the UCPHS and ABPHS. The names and qualifications of the members of the UCPHS and ABPHS are enclosed in accordance with 45 CFR 46.103(b)(3).

D. UCPHS authorities and responsibilities.

1. UCPHS review and approval of research.
 - a. The UCPHS shall have the responsibility to review and the authority to approve, require modification in or disapprove all activities or proposed changes in previously approved activities covered by this assurance.
 - b. The UCPHS shall approve research based on the UCPHS' determinations that the following requirements are satisfied:
 - (1) Risks to subjects are minimized:

- (a) by using procedures which are consistent with sound research design and which do not unnecessarily expose subjects to risk, and
 - (b) whenever appropriate by using procedures already being performed on the subjects for diagnostic or treatment purposes.
 - (2) Risks to subjects are reasonable in relation to anticipated benefits, if any, to subjects, and the importance of knowledge that may reasonably be expected to result. In evaluating risks and benefits, the UCPHS shall consider only those risks and benefits that may result from the research (as distinguished from risks and benefits of therapies subjects would receive even if not participating in the research). The UCPHS shall not consider long-range effects of applying knowledge gained in the research as among those research risks that fall within the purview of its responsibility.
 - (3) Selection of subjects is equitable. In making this assessment the UCPHS shall take into account the purposes of the research, the setting in which the research will be conducted, and the population from which subjects will be recruited.
 - (4) Informed consent will be sought from each prospective subject or the subject's legally authorized representative, in accordance with, and to the extent required by 45 CFR 46.116.
 - (5) Informed consent will be appropriately documented, in accordance with, and to the extent required by 45 CFR 46.117.
 - (6) Where appropriate, the research plan makes adequate provision for monitoring the data collected to insure the safety of subjects.
 - (7) Where appropriate, there are adequate provisions to protect the privacy of subjects and to maintain the confidentiality of data.
2. Documentation of informed consent.
- a. In accord with 45 CFR 46.117, the UCPHS shall require documentation of informed consent by use of a written consent form, or may waive the requirement for the research investigator to obtain a signed consent form for some or all subjects if the UCPHS determines that:
 - (1) The only record linking the subject and the research would be the consent document and the principal risk would be potential harm resulting from a breach of confidentiality. Each subject will be asked whether the subject wants documentation linking the subject with the research and the subject's wishes will govern; or
 - (2) The research presents no more than minimal risk of harm to subjects and involves no procedures for which written consent is normally required outside of the research context.
 - b. When the documentation requirement is waived, the UCPHS may require the research investigator to provide subjects with a written statement regarding the research.
3. Waiver or alteration of informed consent.
- a. The UCPHS may approve a consent procedure which does not include, or which alters, some or all of the elements of informed consent set forth in 45 CFR 46.116(a)&(b), or waive the requirement to obtain informed consent provided the UCPHS finds and documents that:
 - (1) The research is to be conducted for the purpose of demonstrating or evaluating:
 - (a) federal, state or local benefit or service programs which are not themselves research programs.
 - (b) procedures for obtaining benefits or services under these programs, or
 - (c) possible changes in or alternatives to these programs or procedures; and
 - (2) The research could not practicably be carried out without the waiver or alteration.
 - b. The UCPHS may approve a consent procedure which does not include, or which alters, some or all of the elements of informed consent set forth in 45 CFR 46.116(a)&(b), or waive the requirements to obtain informed consent provided the UCPHS finds and documents that:
 - (1) The research involves no more than minimal risk to the subjects;
 - (2) The waiver or alteration will not adversely affect the rights and welfare of the subjects;
 - (3) The research could not practicably be carried out without the waiver or alteration; and
 - (4) Whenever appropriate the subjects will be provided with additional pertinent information after participation.
4. Observation of the consent process and the research.
- a. The UCPHS shall have the authority to observe or have a third party observe the consent process and the research.

5. Frequency of review.
 - a. The UCPHS shall determine, in its review of research protocols, which projects will require UCPHS review more often than annually.
 - b. Except as may be otherwise provided in this assurance, all convened UCPHS meetings shall be conducted under and pursuant to Robert's Rules of Order.
 - c. Convened meetings of the UCPHS shall occur:
 - (1) at least once each month; and
 - (2) at the call of the chairperson when the chairperson judges the meeting to be necessary or advantageous; and
 - (3) at the call of the chairperson upon the receipt of a joint written request of three or more members.
6. Continuing review.

The UCPHS shall conduct continuing review of research at intervals appropriate to the degree of risk, but not less than once per year.
7. Verification of change.

The UCPHS shall determine which projects need verification from sources other than the research investigators that no material changes have occurred since previous UCPHS review.
8. Authority to suspend or terminate approval of research.

The UCPHS shall have authority to suspend or terminate approval of research that is not being conducted in accordance with the UCPHS' decisions, conditions and requirements or that has been associated with unexpected serious harm to subjects.
9. Information dissemination and reporting requirements.

The UCPHS shall have the authority and be responsible for promptly reporting information to the OAS-DRSP, the OPRR or both on a variety of issues. In conjunction with this requirement the UCPHS must be prepared to receive and act on information received from a variety of sources, such as human subjects, research investigators, the OAS-DRSP or other institutional staff. For reporting purposes, UCPHS will follow the procedures described below:

 - (1) Any serious or continuing non-compliance by research investigators with the requirements of the UCPHS - This information shall be reported promptly to the OAS-DRSP and the OPRR.
 - (2) Injuries to human subjects - Information received by the UCPHS concerning injuries to subjects shall be reported promptly to the OAS-DRSP. (The OAS-DRSP is responsible for reporting to the OPRR.)
- (3) Unanticipated problems - Information received by the UCPHS concerning unanticipated problems involving risks to subjects or others shall be reported promptly to the OAS-DRSP. (The OAS-DRSP is responsible for reporting to the OPRR.)
- (4) Suspension or termination of UCPHS approval - suspending or the terminating approval of research protocols shall include a statement of the reasons for the UCPHS' action and shall report the action promptly to the research investigator, the OAS-DRSP and the OPRR.
10. UCPHS records.
 - a. The UCPHS shall prepare and maintain adequate documentation of activities, including the following:
 - (1) Copies of all research proposals reviewed, scientific evaluations, if any, that accompany the proposals, approved sample consent documents, progress reports submitted by research investigators and reports of injuries to subjects.
 - (2) Minutes of UCPHS meetings which shall be in sufficient detail to show the names of attendees at the meetings; actions taken by the UCPHS; the vote on these actions including the number of members voting for, against, and abstaining; the basis for requiring changes in or disapproving research; a written summary of the discussion of controverted issues and their resolution; and dissenting reports and opinions. If a member in attendance has a conflicting interest regarding any project, minutes shall show that this member did not participate in the review, except to provide information requested by the UCPHS.
 - (3) Records of continuing review activities.
 - (4) Copies of all correspondence between the UCPHS and the research investigators.
 - (5) A list of UCPHS members as required by 45 CFR 46.103(b)(3).
 - (6) Written procedures for the UCPHS as required by 45 CFR 46.103(b)(4).
 - (7) Statements of significant new findings provided to subjects, as required by 45 CFR 46.116(b)(5).
 - b. The UCPHS shall provide for the maintenance of records relating to a specific research activity for at least three (3) years after ter-

mination of the last UCPHS approval period for the activity.

- c. UCPHS records shall be accessible for inspection and copying by authorized representatives of HHS at reasonable times and in a reasonable manner, or shall be copied and forwarded to HHS when requested by authorized HHS representatives.

(to be continued in next issue)

information circulars

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

humanities

National Endowment for the Humanities Planning and Assessment Studies Program

No. FY84-318

Program:

Grants to support studies and experiments designed to collect and analyze data - including information about financial, material, and human resources - which help assess the condition of important sectors in the humanities. Explorations of significant trends or emerging issues in the humanities are also encouraged, along with the design, testing, and implementation of analytical tools for evaluation and policy analysis.

Deadline:

March 1 and September 1, 1984

For Further Information Contact:

National Endowment for the Humanities
Arnita Jones
Office of Program and Policy Studies
Planning and Assessment Studies
Room 402
1100 Pennsylvania Avenue, NW
Washington, DC 20506
(202) 786-0420

(From 1983 ARIS)

National Endowment for the Humanities Research Conferences

No. FY84-316

Program:

Grants ranging from \$2,500 to \$10,000 support a limited number of conferences, symposia, and workshops to enable scholars to discuss and advance the current state of research on

a particular topic or to consider means of improving conditions for research or inquiry.

Deadline:

September 15, 1984

For Further Information Contact:

National Endowment for the Humanities
Eugene Sterud
Division of Research Programs
Basic Research Program
Room 319
1100 Pennsylvania Avenue, NW
Washington, DC 20506
(202) 786-0207

(From 1983 ARIS)

National Endowment for the Humanities Summer Seminars for College Teachers

No. FY84-315

Program:

Stipends of \$3,000 for teachers at undergraduate and two-year colleges to work during the summer with distinguished scholars at institutions with libraries suitable for advanced studies. A list of seminars and directors can be obtained from the National Endowment for the Humanities. Individuals desiring stipends should apply to the director of the seminar in which they are interested.

Deadline:

March 1, 1984

For Further Information Contact:

National Endowment for the Humanities
Jeanette Beers
Division of Fellowships and
Seminars
Room 316
1100 Pennsylvania Avenue, NW
Washington, DC 20506
(202) 786-0463

(From 1983 ARIS)

National Endowment for the Humanities Travel to Collections

No. FY84-317

Program:

Grants of \$500 are available to American humanities scholars to enable them to travel to use the research collections of libraries, archives, museums, or other repositories to consult research materials or fundamental importance for the progress of their scholarly work.

Deadline:

September 15, 1984

For Further Information Contact:

National Endowment for the Humanities
Eric Juengst
Division of Research Programs
Basic Research Program
Room 319
1100 Pennsylvania Avenue, NW
Washington, DC 20506
(202) 786-0207

(From 1983 ARIS)

**The Newberry Library
American Society for Eighteenth-Century
Studies Fellowships**

No. FY84-323

Program:

The Newberry Library, founded in 1887, is a privately endowed independent research library located on the near north side of the city of Chicago. Comprising more than one million volumes and five million manuscripts, it has a strong general collection embracing history and the humanities within Western Civilization from the late Middle Ages to the early twentieth century.

Fellowships are available for one to four months in residence at the Newberry for studies in the period 1660-1815. Applicants must be postdoctoral scholars no more than ten years from receipt of their Ph.D., and members in good standing of the American Society for Eighteenth-Century Studies at the time of application. Stipends are \$600 per month.

Deadline:

March 1 and October 15, 1984

For Further Information Contact:

The Newberry Library
Committee on Awards
60 West Walton Street
Chicago, IL 60610
(312) 943-9090

(From 1983 ARIS)

**The Newberry Library
Fellowships for Summer Institutes
in the Archival Sciences**

No. FY84-324

Program:

The Newberry Library, founded in 1887, is a privately endowed independent research library located on the near north side of the city of Chicago. Comprising more than one million volumes and five million manuscripts, it has a strong general collection embracing history and the humanities within Western Civilization

from the late Middle Ages to the early twentieth century.

Fellowships with stipends of up to \$2,000 are available to faculty members, librarians, and advanced graduate students in the humanities for either of two six-week summer institutes sponsored by the Newberry Library Center for Renaissance Studies and the Folger Institute of Renaissance and Eighteenth-Century Studies. The emphasis in each institute will be on the reading, transcribing, and editing of manuscripts from the period 1300-1650.

Deadline:

March 15, 1984

For Further Information Contact:

The Newberry Library
Committee on Awards
60 West Walton Street
Chicago, IL 60610
(312) 943-9090

(From 1983 ARIS)

**University of Southern California
Andrew W. Mellon Postdoctoral
Fellowships in the Humanities**

No. FY84-326

Program:

Two fellowships, each carrying a stipend of \$20,000, will be awarded for the academic year 1984-85. Eligible applicants are scholars who have received the Ph.D. within the last six years and who do not hold tenure at an academic institution. One fellowship will be awarded in the area of Classics and the other will be awarded in the area of Slavic Languages and Literatures. Potential applicants should directly contact either Professor Jeffrey Henderson, Chair, Department of Classics, or Professor Olga Matich, Chair, Department of Slavic Languages and Literatures.

Deadline:

No fixed deadline*

For Further Information Contact:

University of Southern California
Marshall Cohen, Dean
Division of Humanities
Administration 200
University of Southern California
University Park
Los Angeles, CA 90089-4012
(213) 743-5294

*NOTE: While no deadline for receipt of applications has been set, the decision on the fellowship awards will be made sometime in the spring of 1984.

(From 1983 ARIS)

fine and performing arts

American Musicological Society, Inc. Travel Grants

No. FY84-320

Program:

Travel grants, covering the cost of round-trip tourist class fare, are administered by the American Council of Learned Societies to enable American musicologists to attend international meetings abroad. Applicants must have the Ph.D. or the equivalent.

Deadline:

March 1*, July 1 and November 1, 1984

For Further Information Contact:

American Musicological Society, Inc.
Prof. Frank Traficante
Liaison Officer for Travel Grants
Department of Music
Claremont Graduate School
Claremont, CA 91711
(714) 621-8081

*The March 1 deadline is for meetings scheduled from July through October.

(From 1983 ARIS)

National Gallery of Art Visiting Senior Fellowships

No. FY84-319

Program:

Fellowships based on individual need will be awarded for study at the Center for a maximum of 60 days. Applications will be considered from scholars for study in the history, theory, and criticism of the visual arts (painting, sculpture, architecture, landscape architecture, urbanism, graphics, film, photography, decorative arts, industrial design, etc.) of any geographical area and of any period. Applicants may be of any age or nationality but must have held the Ph.D. for five years or more or possess a record of professional accomplishment.

Deadline:

March 21* and September 21, 1984

For Further Information Contact:

National Gallery of Art
Center for Advanced Study in the
Visual Arts
Washington, DC 20565
(202) 842-6840

*The March 21 deadline is for applications for fellowship support during the period of September 17, 1984 to February 28, 1985.

(From 1983 ARIS)

Sinfonia Foundation Research Assistance Grants

No. FY84-325

Program:

Grants averaging \$1,000 to support research or other work in American music or music education.

Deadline:

March 1, 1984

For Further Information Contact:

Sinfonia Foundation
10600 Old State Road
Evansville, IN 47711
(812) 867-2433

(From 1983 ARIS)

social sciences

Center for the Study of Aging and Human Development Research Training in Behavior and Physiology in Aging and Adult Development

No. FY84-333

Program:

National Research Service Awards, ranging from \$14,040 to \$19,716 depending on experience, for postdoctoral candidates who have completed the Ph.D. or M.D. degrees to enter the Training Program at the Medical Center for a two-year period of research. Applicants may come from a variety of backgrounds, including psychology, sociology, medicine, psychiatry, or psychophysiology, and/or other biomedical, behavioral and social science disciplines. The Program is designed to provide the participant with research skills in the field of aging and life-span changes; the focus is on independent work in collaboration with faculty members.

Deadline:

April 1, 1984

For Further Information Contact:

Center for the Study of Aging and
Human Development
Dr. Ilene C. Siegler
Training Coordinator
Box 2969
Duke University Medical Center
Durham, NC 27710
(919) 684-3362

(From 1983 ARIS)

NIH—National Institute on Aging Aging and Visual Perception

No. FY84-314

Program:

The NIA is inviting qualified researchers to submit grant applications for research projects designed to examine the nature of age-related differences and changes in visual perception, as these relate to the effective functioning of older people in everyday life. Examples of appropriate topics are the following: visual perception and functioning in real-life context; visual perception and cognitive processes; and compensatory and rehabilitative aids. Multidisciplinary teams of researchers may be required, composed of visual scientists (including ophthalmologists or optometrists) in collaboration, e.g., with psychologists concerned with broad perceptual or cognitive processes, or with social scientists concerned with the match between performance and specific aspects of everyday settings as at work or in the household.

Deadline:

June 1/July 1, and October 1/November 1, 1984

For Further Information Contact:

NIH - National Institute on Aging
Behavioral Sciences Research
Attn: "Visual Perception"
Building 31C, Room 4C32
Bethesda, MD 20205
(301) 496-3136

(From 1983 ARIS)

NIH—National Institute on Aging Health Behaviors and Aging: Behavioral Geriatrics Research

No. FY84-329

Program:

The NIA invites applications for research and research training on the nature of older people's health behaviors and attitudes, and those of their relatives and significant others, as these behaviors and attitudes can promote or inhibit health and effective functioning in the middle and later years. Research is needed to specify how particular health behaviors and attitudes are acquired or changed as people grow older, how they are influenced by social contexts, how they relate to etiology or pathogenesis of particular diseases, how they interact with physiological and psychological aging processes to affect particular health outcomes, and how they influence the need for health care services or institutionalization. Special encouragement is given to multidisciplinary teams of investigators who combine the knowledge and skills for relating relevant aspects of social/behavioral and biomedical sciences.

Deadline:

March 1, June 1, July 1, October 1 and November 1, 1984

For Further Information Contact:

NIH - National Institute on Aging
Behavioral Sciences Research
Attn: "Health Behaviors and Aging"
Building 31, Room 4C32
Bethesda, MD 20205
(301) 496-3136

(From 1983 ARIS)

NIH—National Institute on Aging Social Environments Influencing Health and Effective Functioning in the Middle and Later Years

No. FY84-330

Program:

The NIA invites qualified researchers to submit grant applications for research projects designed to identify specific modifications to the social environment - at work, in the household, or in the community - that may improve the health or the effective functioning of middle-aged and older persons. Studies are sought which extend scientific understanding of how and why particular interventions or variations in the social context may have positive or negative consequences for particular outcomes of the aging process. Encouragement is given to multidisciplinary teams of researchers who combine the knowledge and skill for relating social interventions to the biomedical, behavioral, or social measures of aging outcomes and to the linking mechanisms chosen for scrutiny.

Deadline:

March 1, June 1, July 1, October 1 and November 1, 1984

For Further Information Contact:

NIH - National Institute on Aging
Behavioral Sciences Research
Attn: "Social Environments"
Building 31, Room 4C32
Bethesda, MD 20205
(301) 496-3136

(From 1983 ARIS)

science

**American Cancer Society, Inc.
Research and Clinical Investigation Grants**

No. FY84-331

Program:

Grants (normally for two years, renewable for

one year) to fit a variety of needs in scientific investigations related to cancer. Interested individuals must contact the ACS directly for guidelines and application forms. The activation date is January 1 for the April deadline and July 1 for the November deadline.

Deadline:
April 1 and November 1, 1984

For Further Information Contact:

American Cancer Society, Inc.
Research Department
Dr. Stefano Vivona
777 - 3rd Avenue
New York, NY 10017
(212) 371-2900, Ext. 442

(From 1983 ARIS)

**American Heart Association, Indiana
Affiliate, Inc.
Research Applications**

No. FY84-327

Program:

The American Heart Association, Indiana Affiliate, Inc., is now accepting orders for application forms for Grants-in-Aid and Fellowship awards for the 1984-1985 fiscal year. Because of the cost of the application kits, the Indiana Affiliate requests that only those who intend to apply request applications. The deadline for receipt of completed applications in the Affiliate office is March 15, 1984.

Contact the Following:

Miss Vicki L. Arps, Director of
Medical Programs and Research
American Heart Association
Indiana Affiliate, Inc.
222 South Downey Avenue
Suite 222
Indianapolis, IN 46219
(317) 357-8622

**American Society for Microbiology
Predoctoral Minority Fellowships in
Microbiology**

No. FY84-332

Program:

Two awards are available for the support of graduate students in microbiology who are members of recognized racial and ethnic minorities in the population of the U.S. The awards provide stipends up to \$5,000 each and an additional amount up to \$4,000 each to cover tuition and fees at the chosen institu-

tions. The term for each minority fellowship award will begin September 1 and continue for twelve months, renewable.

Deadline:
April 1, 1984

For Further Information Contact:

American Society for Microbiology
Riley D. Housewright, Ph.D.
Executive Director
1913 I Street, NW
Washington, DC 20006

(From 1983 ARIS)

**The Jackson Laboratory
Postdoctoral Program and Cooperative
Graduate Studies Program**

No. FY84-335

Program:

The Jackson Laboratory is an independent, non-profit institution with a staff of 40 scientists who conduct research directed toward two general goals: 1) the development of new knowledge of mammalian genetics through the use of inbred and mutant mice, and 2) the investigation of basic biological processes and their relationships to human diseases by combining genetic knowledge with that of other disciplines. Application forms for the following training programs are available from the Training Office.

Postdoctoral Program: Postdoctoral trainees receive one-year appointments, renewable, for research training at the Jackson Laboratory in cancer biology, developmental genetics, hematology and immunology (NIH training grants, NRSA). Stipends range from \$14,040 to \$19,716 per year depending upon the individual's relevant postdoctoral experience.

Cooperative Graduate Studies Program: Pre-doctoral appointments for research training are offered for master's and doctoral degree students who wish to conduct dissertation research at the Jackson Laboratory on a biomedical problem. Applicants must be enrolled in a university program leading to an advanced degree and should complete all of their course and residency requirements at their school before beginning full-time dissertation research at the Laboratory. The predoctoral stipend is \$5,292 per year.

For Further Information Contact:

The Jackson Laboratory
Training Office
Training Program Manager
Mr. Robert F. Shea
Bar Harbor, ME 04609
(207) 288-3371, Ext. 253

(From 1983 ARIS)

**Milheim Foundation
Cancer Research Grants**

No. FY84-336

Program:

Grants averaging \$20,000 are available for one year to support research work in the prevention, treatment and cure of cancer. While a one-year renewal of the original grant is possible, the Foundation prefers to fund projects that can secure long-term support after the first year of operation. The Foundation does not allow for salaries of academic personnel or for the purchase of permanent equipment. Grants are made for projects to begin July 1.

Deadline:

March 15, 1984

For Further Information Contact:

Milheim Foundation
Ms. Alene De Vore, Vice President
Colorado National Bank of Denver
Trust Department
P.O. Box 5168, Terminal Annex
Denver, CO 80217
(303) 893-1862

(From 1983 ARIS)

**Josiah Macy, Jr. Foundation
Grants in Medical Science and Education**

No. FY84-338

Program:

Grants are made in the following program areas:

- Minority Groups for Medicine: Grants to academic institutions at various levels for programs designed to recruit and prepare minority group students for careers in medicine, biomedical sciences, and related health professions;

- Medical Education: Grants for planning or implementing innovative experimental programs designed to improve the content, quality, and effectiveness of the academic experience in medical schools; and

- New Academic Offerings for Students in Biomedical Sciences - Pathobiology: Grants in support of special teaching programs to provide exposure to human physiology and pathology for Ph.D. candidates who plan careers in basic biomedical research.

There are no special application forms; a preliminary letter of inquiry is requested before submission of a full proposal.

For Further Information Contact:

Josiah Macy, Jr. Foundation
James G. Hirsch, M.D., President

44 East 64th Street
New York, NY 10021
(212) 286-2424

(From 1983 ARIS)

general

**The Corporation for Science
and Technology
State of Indiana**

No. FY84-328

Program:

The Indiana Corporation for Science and Technology is a private not-for-profit corporation formed to help strengthen Indiana's economy through the development of scientific and technological based research and development ventures. Founded in 1982 by the Indiana General Assembly, CST provides grants, enters into contracts, and engages in joint ventures, surveys, seminars, workshops, and other activities. CST has \$20 million in research funds to invest in Indiana's future over the next years. These funds are part of a ten-year, \$150 million commitment to develop business and jobs in the state. Proposals are now being accepted.

Deadline:

None given

Guidelines:

For a copy of detailed proposal guidelines, contact the Office of Advanced Studies, Division of Research and Sponsored Programs, Extension 7432.

**The Camille and Henry Dreyfus
Foundation, Inc.
Dreyfus Teacher-Scholar Grants Program**

No. FY84-334

Program:

Fifteen grants are made annually to colleges and universities for young, promising faculty members in the fields of chemistry, chemical engineering, biochemistry, and closely related sciences to contribute to their personal development as a teacher and scholar. The amount of the award is \$50,000 of which \$47,000 is to be made available to the faculty member and \$3,000 is for administrative purposes.

Deadline:

April 15, 1984

For Further Information Contact:

The Camille and Henry Dreyfus
Foundation, Inc.

Dr. William L. Evers
445 Park Avenue
New York, NY 10022
(212) 753-1760

(From 1983 ARIS)

Japan-United States Friendship Commission Programs

No. FY84-321

Program:

The Japan-United States Friendship Commission grants funds for support in four major project areas: Japanese Studies (for Americans), American Studies (for Japanese), the Arts, and Research and Programs for Public Education.

- Japanese Studies: The Commission's major effort under this category will be to develop American professional education on Japan in the areas of law, business, economics, journalism, architecture, and urban planning. Funds for graduate fellowships, faculty expansion, and research will be committed to these areas rather than to the traditionally humanistic and social science areas in Japanese studies at the university level. The Commission will also fund projects in professional school faculty development, faculty research, library support, language training, and general education which promise large regional or national return in the level of American awareness of Japanese society and culture.

- The Arts: The Commission will fund various types of projects in the arts, including exchange fellowships for individual artists of both countries, performing arts tours of Japan by professional American theater and dance companies, American professional and university performance and study of traditional Japanese theater and music, and museum exhibitions and related activities, such as fine arts education.

- Research and Programs for Public Education: Support under this category will go to projects designed to broaden the understanding of Japanese history, society, and culture among the American public at large. Areas of support include public television programs, regional public affairs programming on Japan, policy-oriented research, and counterpart exchanges in the fields of journalism, education, economics, and public affairs.

Deadline:
August 1, 1984

For Further Information Contact:

Japan - United States Friendship
Commission
Executive Director
Suite 910
1875 Connecticut Avenue, NW

Washington, DC 20009
(202) 673-5295

(From 1983 ARIS)

National Association of College and University Business Officers (NACUBO) Cost Reduction Incentive Awards Program

No. FY84-322

Program:

NACUBO in conjunction with the U.S. Steel Foundation awards unrestricted grants of cash (\$10,000, \$7,500, \$5,000, five \$2,500 and an unspecified number of \$1,000 and \$100 awards) to colleges and universities that have developed and implemented cost-saving innovations and techniques during 1983.

Deadline:
March 15, 1984

For Further Information Contact:

National Association of College and
University Business Officers (NACUBO)
Darryl Brown, Information
Exchange Coordinator
One Dupont Circle, Suite 510
Washington, DC 20036-1178
(202) 861-2515

(From 1983 ARIS)

National Academy of Sciences NAS Scientific Exchange Programs with USSR and Eastern Europe

No. FY84-337

Program:

Applications are invited from American scientists who wish to make professional visits in the USSR, Bulgaria, Czechoslovakia, The German Democratic Republic, Hungary, Poland, Romania, and Yugoslavia between January and December, 1985. Visits may be short-term, one month in duration, or long-term, defined as three to twelve months. Applicants must be U.S. citizens and have a doctoral degree or equivalent experience in the natural, social or behavioral sciences by the time of visit.

Deadline:
March 1, 1984

For Further Information Contact:

National Academy of Sciences
Section on USSR and Eastern Europe
2101 Constitution Avenue, NW
Washington, DC 20418
(202) 334-2644

(From 1983 ARIS)

current publications and other scholarly works

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

COLLEGE OF ARTS AND LETTERS

Economics

Kim, Kwan S.

- K.S. Kim. 1983. Review of R.L. Ayres' The World Bank's Antipoverty Strategy: Revolution or Reform. The World Bank and World Poverty - Banking on the Poor. The Review of Politics 45(4):630-632.

English

Gernes, Sonia G.

- S.G. Gernes. 1983. One Charm Remaining. Argo 5(1):21-29.

- S.G. Gernes. 1983. Dust. Poetry Northwest 24:24.

O'Rourke, William A.

- W.A. O'Rourke. 1983. Review of P. McGinley's, Foggage. The Los Angeles Times. December 15(Part 5):44.

Schirmer, Gregory A.

- G.A. Schirmer. 1983. Review of, The Roots of Treason: Ezra Pound and the Secrets of St. Elizabeths. The Milwaukee Journal. December 4:9.

- G.A. Schirmer. 1983. Review of P. Roth's, The Anatomy Lesson. The Christian Science Monitor. January 6:B4.

- G.A. Schirmer. 1983. Review of M. Keane's, Time After Time. Newsday. January 5 (Part II):39.

Modern and Classical Languages

DellaNeve, JoAnn

- J. DellaNeve. 1983. Song and Counter-Song: Scève's *Délie* and Petrarch's *Rime*. French Forum, Publishers. 128 pp.

COLLEGE OF SCIENCE

Biology

Bender, Harvey A.

- H.A. Bender. 1983. Patient Information Storage/Retrieval Survey. American Journal of Medical Genetics 16:441-443.

Craig, Jr., George B.

- D.A. Shroyer and G.B. Craig, Jr. 1983. Egg Diapause in *Aedes triseriatus* (Diptera: Culicidae): Geographic Variation in Photoperiodic Response and Factors Influencing Diapause Termination.

Journal of Medical Entomology 20(6):601-607.

Fraser, Jr., Malcolm J.

- M.J. Fraser, Jr., G.E. Smith and M.D. Summers. 1983. Production of Human Beta Interferon in Insect Cells Infected with a Baculovirus Expression Vector. Molecular and Cellular Biology 3(12):2156-

Freier, Jerome E.

- J.E. Freier and P.R. Grimstad. 1983. Transmission of Dengue Virus By Orally Infected *Aedes triseriatus*. American Journal of Tropical Medicine and Hygiene 32(6):1429-1434.

Greene, Richard W.

- R.W. Greene. 1983. 60 Hz Ultra-High Voltage Electric Field Effect on Onion Root Mitotic Index: A Lack of Impact. Environmental and Experimental Botany 23(4):355-360.

- D.F. Spencer, H-Y. Yeung and R.W. Greene. 1983. Alterations in the Zooplankton Community of a Fly Ash Treated Lake. Hydrobiologia 107:123-130.

Grimstad, Paul R.

- J.E. Freier and P.R. Grimstad. 1983. Transmission of Dengue Virus By Orally Infected *Aedes triseriatus*. American Journal of Tropical Medicine and Hygiene 32(6):1429-1434.

Munstermann, Leonard E.

- T.C. Matthews and L.E. Munstermann. 1983. Genetic Diversity and Differentiation in Northern Populations of the Tree-Hole Mosquito *Aedes hendersoni* (Diptera: Culicidae). Annals of the Entomological Society of America 76(6):1005-1010.

Chemistry

Fehlner, Thomas P.

- T.P. Fehlner, C.E. Housecroft and K. Wade. 1983. Electron Counting in Cluster Species. The Significance of the Structure and Isomerism of the Iron-Molybdenum-Sulfur Cluster Compound (Dicyclopentadienylidimolybdenum)diron Octacarbonyl Disulfide, $(\eta^5-C_5H_5)_2Mo_2Fe_2(CO)_8S_2$, a Hexanuclear Species in Which Two Mo_2FeS Tetrahedra Share A Common Mo-Mo Edge. Organometallics 2(10):1426-1428.

- D.B. Palladino and T.P. Fehlner. 1983. Preparation of a Carbon-Rich Metalla-carborane from a Metallacycle. Organometallics 2:1962-1963.

Hayes, Robert G.

- W.F. Stickley and R.G. Hayes. 1983. Multiplet Splitting in the 3p XPS of Low-Spin Co(III) Compounds. Journal of Electron Spectroscopy and Related Phenomena 32:343-350.

- W.F. Stickley and R.G. Hayes. 1983. X-ray Photoelectron Spectroscopy of the 3p Level in Ni(II) Compounds. Journal of Chemical Physics 79(9):4106-4112.

Housecroft, Catherine E.

- T.P. Fehlner, C.E. Housecroft and K. Wade. 1983. Electron Counting in Cluster Species. The Significance of the Struc-

ture and Isomerism of the Iron-Molybdenum-Sulfur Cluster Compound (Dicyclopentadienyldimolybdenum)diron Octacarbonyl Disulfide, $(\eta^5\text{-C}_5\text{H}_5)_2\text{Mo}_2\text{Fe}_2(\text{CO})_8\text{S}_2$, a Hexanuclear Species in Which Two Mo_2FeS Tetrahedra Share A Common Mo-Mo Edge. Organometallics 2(10):1426-1428.

Kozak, John J.

*P.A. Politowicz and J.J. Kozak. 1983. Exact Algorithm for d-dimensional Walks on Finite and Infinite Lattices with Traps. III. Role of Lattice Valency in Influencing the Efficiency of Diffusion-controlled Reactions. Physical Review B 28(10):5549-5569.

*B.L. Tembe, J.E. MacCarthy and J.J. Kozak. 1983. Transition Phenomena in Monolayers at the Air-Water Interface. Journal of Physical Chemistry 87:4562-4563.

Miller, Marvin J.

M.J. Miller and P.G. Mattingly. 1983. Chiral Syntheses of Protected 3-Amino-4-(alkyoxycarbonyl)-2-azetidinones from β -Hydroxyaspartic Acid. Journal of Organic Chemistry 48(20):3556-3559.

Schuler, Robert H.

*J.A. Laverne and R.H. Schuler. 1983. Decomposition of Water by Very High Linear Energy Transfer Radiations. Journal of Physical Chemistry 87:4564-4565.

Wade, Kenneth

T.P. Fehlner, C.E. Housecroft and K. Wade. 1983. Electron Counting in Cluster Species. The Significance of the Structure and Isomerism of the Iron-Molybdenum-Sulfur Cluster Compound (Dicyclopentadienyldimolybdenum)diron Octacarbonyl Disulfide, $(\eta^5\text{-C}_5\text{H}_5)_2\text{Mo}_2\text{Fe}_2(\text{CO})_8\text{S}_2$, a Hexanuclear Species in Which Two Mo_2FeS Tetrahedra Share A Common Mo-Mo Edge. Organometallics 2(10):1426-1428.

*Under the Radiation Laboratory

Mathematics

Pillay, Anand

A. Pillay. 1983. Aleph-zero-Categoricity Over a Predicate. Notre Dame Journal of Formal Logic 24(4):527-536.

Physics

O'Fallon, John R.

D.C. Peaslee, J.R. O'Fallon, M. Simonius, G.T. Danby, Y.Y. Lee, L.G. Ratner, R.J. Bruni, P.R. Cameron, D.G. Crabb, M.E. Hejazifar, A.D. Krisch, A.M.T. Lin, R.S. Raymond and K.M. Terwilliger. 1983. Large-P $\frac{1}{2}$ Spin Effects in p+p+p+p. Physical Review Letters 51(26):2359-2361.

COLLEGE OF ENGINEERING

Chemical Engineering

Strieder, William C.

B. Jayaram and W.C. Strieder. 1983.

Melting of a Semi-Infinite Solid with a Volume Distributed Substrate Heat Source. International Commission of Heat Mass Transfer 10:491-500.

Civil Engineering

Theis, Thomas L.

T.L. Theis and L.E. Padgett. 1983. Factors Affecting the Release of Trace Metals from Municipal Sludge Ashes. Journal Water Pollution Control Federation 1271-1279.

Electrical Engineering

Huang, Yih-Fang

R. Liu and Y.F. Huang. 1983. Analog Fault Diagnosis--A New Large-Scale Estimation Problem. Proceedings on Curriculum for Test Technology. University of Minnesota, Minneapolis, Minnesota. Pages 63-68.

Liu, Ruey-wen

C.S. Lin, Z.F. Huang and R. Liu. 1983. Topological Conditions for Single-Branch-Fault. IEEE Transactions on Circuits and Systems CAS-30(6):376-381.

R. Liu and Y.F. Huang. 1983. Analog Fault Diagnosis--A New Large-Scale Estimation Problem. Proceedings on Curriculum for Test Technology. University of Minnesota, Minneapolis, Minnesota. Pages 63-68.

COLLEGE OF BUSINESS ADMINISTRATION

Marketing Management

Achrol, Ravi S.

R.S. Achrol, T. Reve and L.W. Stern. 1983. The Environment of Marketing Channel Dyads: A Framework for Comparative Analysis. Journal of Marketing 47:55-67.

RADIATION LABORATORY

Carmichael, Ian C.

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An official publication of the University of Notre Dame, Department of Information Services. Individual copies are available in the Notre Dame Hammes Bookstore at 50 cents each. Mail subscriptions are \$10 per year. Back copies are available through the mail at 70 cents each.

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