

# notre dame report

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# the university

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## exxon grant to fund visiting scholars series

Notre Dame's Institute for Scholarship in the Liberal Arts has received a \$50,000 grant from the Exxon Education Foundation for its 1985-86 Distinguished Visiting Scholars Series. The series is designed to attract academics from outside the University for several days of various interactions with faculty and students. During the 1985-86 school year, eight academic departments and one interdisciplinary program within the University's College of Arts and Letters will sponsor a series, each bringing three to five visiting scholars to address a common theme.

The nine series, selected by an Institute committee in a competition open to all departments in the College, are "Industrialization and De-industrialization in the National Economy," for the Department of Economics; "Philosophy of Language," for the Department of Philosophy; "War and Society in the 20th Century," for the Department of History; "International Relations: the Hidden Issues," for the Department of Government and International Studies; "The Enlightenment," for the Program of Liberal Studies; "Advances in Sociological Research," for the Department of Sociology; "Visual Narratives," for the Department of Art, Art History and Design; "Issues in Classics," for the Department of Modern and Classical Languages; and "Stability and Change in Human Development," for the Program in Individual and Family Development.

## 11th annual third world relief campaign underway

Once again, Notre Dame's Third World Relief Fund is directing its energies to the support of private agencies that channel assistance to the poorest sections of the population in Africa, Asia and Latin America.

Contributions to the 1985 campaign may be targeted for one or more of the following agencies: Catholic Relief Services, Church World Service, Cooperative for American Relief Everywhere (CARE), Co-workers of Mother Teresa in America, Interreligious Foundation on Community Organization/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. The Committee for the Third World Relief Fund feels that the self-help focus of the agencies listed above represents the best hope of reversing the trends which are creating destitution for the poorest of the Third World's people.

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# faculty notes

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## honors

Joseph P. Bauer, professor of law, has been elected to the executive committee of the Antitrust Section of the Association of American Law Schools.

Louis J. Berzai, adjunct instructor in the Computer Applications Program, College of Arts and Letters, was elected Vice President of Region 9 (Michigan, Indiana and Kentucky) for the Data Processing Management Association at its International Conference in Anaheim, Calif., Nov. 4.

John F. Gaski, assistant professor of marketing, has been appointed to the editorial review board of the Journal of the Academy of Marketing Science.

Rev. Ernan McMullin, John Cardinal O'Hara professor of philosophy, was presented with a Festschrift by his colleagues on the occasion of his 60th birthday. The book, "Science and Reality," was edited by James T. Cushing, professor of physics, and professors of philosophy Cornelius F. Delaney and Gary M. Gutting, and was published by the University of Notre Dame Press. It contains eight essays by leading philosophers of science.

James L. Melsa, professor of electrical engineering, has been appointed to the Institute of Electrical and Electronic Engineers (IEEE) Awards Board and as chairman of the Simon Ramo Medal Committee for 1985.

Anthony N. Michel, chairman and professor of electrical engineering, is listed in the IEEE Centennial volume, "A Century of Honors," IEEE Press, 1984, p.34.

Walter Nugent, Andrew V. Tackes professor of history, has been elected to the Council on Foreign Relations (New York) and the Chicago Corral of Westerners International. He has been named to the editorial boards of the Western Historical Quarterly and the Indiana Magazine of History, and was appointed to the Academic Council of American Friends of the Hebrew University in November.

Michael K. Sain, Freimann professor of electrical engineering, was awarded a Centennial Medal by the Institute of Electrical and Electronics Engineers' Control Systems Society at the Conference on Decision and Control, Las Vegas, Dec. 13. He has also been listed in "A Century of Honors," IEEE Press, New York, 1984, p. 371.

Phillip R. Sloan, associate professor in the Program of Liberal Studies, has completed a three-year term on the Council of the History of Science Society, and has been appointed to the Publications Committee of the Society.

J. Kerry Thomas, Nieuwland professor of chemistry, has been appointed to the Nominating Committee and the Awards Committee of the Radiation Research Society.

## activities

J. Douglas Archer, assistant librarian, led a workshop on "Censors Are People Too, Part II" at the Indiana Library Association District 1 Fall Meeting in Gary, Ind., Oct. 9.

Dino S. Cervigni, associate professor of modern and classical languages, chaired a session on A. Manzoni at the annual convention of the American Association of Teachers of Italian and read a paper on "Il De Vita propria liber di S. Cardano: tematica rinascimentale e struttura riflessa" at the MLA Convention, Washington, D.C., Dec. 27-30.

Michael J. Crowe, professor in the Program of Liberal Studies and graduate program in history and philosophy of science, presented a paper titled "Giovanni Schiaparelli's Contribution to Astronomy: A Reassessment" at the History of Science Society annual meeting held in Chicago, Ill., Dec. 29.

Angel Delgado-Gomez, assistant professor of modern and classical languages, delivered an invited paper titled "From Humanist Dialogue to the Birth of the Novel: the Viaje de Turquía" at the Modern Language Association 1984 Convention, Washington, D.C., Dec. 27-29.

A paper by Pamela Falkenberg, visiting assistant professor of communication and theatre, titled "Breathless (1959) and Breathless (1983): Hollywood and the 'Art Cinema' as a Bipolar Modeling System," has been accepted for publication by Wide Angle, Volume 7, Number 3, expected publication date July 1985.

Kenneth Featherstone, professor of architecture, served as a design reviewer at the University of Illinois, Chicago, Dec. 10.

Malcolm J. Fraser, Jr., assistant professor of biology, was an invited speaker at the annual meeting of the Entomological Society of America, Formal Conference on Molecular Genetics, San Antonio, Tex., Dec. 9-13. His presentation was titled "Transposon Mediated Mutagenesis of Nuclear Polyhedrosis Viruses By Their Infected Hosts."

Andre Goddu, assistant professor in the Program of Liberal Studies, organized a session on Fourteenth-Century Mathematics and Natural Philosophy at Oxford, and presented a paper titled "Ockham's Arguments for Action at a Distance," at the annual meeting of the History of Science Society, Chicago, Ill., Dec. 27-30.

John W. Houck, professor of management and codirector of the Center for Ethics and Religious Values in Business, delivered a lecture and conducted a workshop for insurance executives on "Humane and Religious Values in Business Decision-Making," at the University of Houston Continuing Education Center, Nov. 14 and 15.

Richard W. Hubbard, assistant professional specialist in the Gerontological Education, Research and Services Center and adjunct assistant professor of psychology, gave a presentation on "Drug Use and Related Attitudes of Aged White and

Mexican Americans" (with John F. Santos, GERAS Center director and professor of psychology, and P. Hanley-Dunn), at the Gerontological Society annual meeting, San Antonio, Tex., Nov. 20.

Rev. Mr. John Kurtzke, C.S.C., adjunct assistant professor of mathematics, gave a talk titled "Invariants of Finite Reflection Groups" at the University of Portland, Ore., Jan. 11.

John W. Lucey, associate professor of aerospace and mechanical engineering, spoke to the Mishawaka Lions Club Jan. 3 on "Nuclear Energy - Promises and Problems."

Ralph M. McInerney, Grace professor of medieval studies, director of the Medieval Institute and professor of philosophy, was a guest on Irv Kupcinek's TV show "Kup's Korner," Jan. 5, on WTTW, Chicago, Ill. The subject was "Recant or Resign," regarding the Pope's letter to those who signed a New York Times ad in October 1984 concerning abortion.

Rev. Ernan McMullin, John Cardinal O'Hara professor of philosophy, took part in a symposium on Truth and Verisimilitude at Temple University on Nov. 17, and commented on papers by Dudley Shapere and Ian Hacking. On Dec. 1, he was the main speaker at a meeting of the Regional Roundtable of the American Catholic Philosophical Association at Fordham University. His topic was "Patterns of Explanation."

Anthony N. Michel, chairman and professor of electrical engineering, presented a seminar titled "Recent Results in Stability of Interconnected Systems" at the General Motors Research Laboratories, Warren, Mich., Jan. 10.

Walter Nugent, Andrew V. Tackes professor of history, was a commentator at a session on "Benjamin Harrison and the West" at the annual meeting of the Western History Association, St. Paul, Minn., Oct. 18, and taped an interview on midwestern Populism and women Populist leaders for Wisconsin Public Radio Nov. 9. He spoke on "Historical Demography: A New Mode of Historical Inquiry" at a National Endowment for the Humanities seminar for the social studies teachers of the Indianapolis area Sept. 15, and at a staff meeting of the North Carolina division of Archives and History in Raleigh Dec. 4. He chaired the Fulbright advisory selection committee for Israel Nov. 20, and gave the opening paper, "The 1880's: The Transatlantic Setting at a Special Time," at the 100th anniversary meeting of the American Historical Association, held in Chicago Dec. 27.

Rev. Claude Pomerleau, education coordinator in the Kellogg Institute and assistant professor of government and international studies, organized and coordinated a panel discussion titled "International Perspective on Aging" for the Indiana Governor's Conference on Aging, held in South Bend Oct. 14-16. Panelists included George Brinkley, director of the Soviet and East European Studies program and professor of government and international studies; Sharon O'Brien, assistant

professor of government and international studies; and Kellogg Institute faculty fellows Maria de los Angeles Crummett and Mutombo Mpanya.

John F. Santos, director of the Gerontological Education, Research and Services Center and professor of psychology, gave a presentation on "The Influence of Loneliness on the Interpretations of Interpersonal Interactions" (with P. Hanley-Dunn and Scott E. Maxwell, associate professor of psychology) at the Gerontological Society annual meeting, San Antonio, Tex., Nov. 17.

James H. Seckinger, director of the National Institute for Trial Advocacy and professor of law, served as a faculty member for NITA in-house trial advocacy programs co-sponsored by Winston & Strawn Nov. 1-3 and Arthur Andersen Dec. 12-14. He also served on the faculty for a NITA teacher-training session in Berkeley, Calif., Nov. 9-11, and for the NITA Rocky Mountain Regional Program, Denver, Colo., Nov. 29-Dec. 9. He hosted the NITA Board of Trustees meeting at Notre Dame Nov. 15-17.

Samuel Shapiro, associate professor of history, gave a presentation on "Pre-Columbian Religion in Mexico" at the weekly service of the Unitarian Universalist Fellowship of Elkhart Dec. 2.

Phillip R. Sloan, associate professor in the Program of Liberal Studies, delivered a paper titled "Challenges and Fallacies in Textual Editing" as the main commentary in the symposium "Editing Darwin" at the History of Science Society annual meeting Dec. 29.

Donald C. Sniegowski, associate professor of English, served on the Indiana selection committee for the Rhodes Scholarship Trust in Indianapolis Dec. 11 and 12.

Andrew J. Sommese, professor of mathematics, gave a series of colloquia and invited talks at universities in West Germany and the Netherlands in recent months. He presented colloquia titled "On the Homotopy Groups of Pullbacks of Algebraic Varieties" at the University of Essen Nov. 7; "Surveying the Theory of Hyperplane Sections" at the University of Bonn Nov. 16, and "On Projective Bundles as Hyperplane Sections" at the University of Hamburg Nov. 20. He gave invited talks titled "On Quotients by  $\mathbb{C}^*$ -Actions" Nov. 9 and "On Homotopy Groups of Pullbacks of Algebraic Varieties" Dec. 13 at the Max Planck Institut für Mathematik in Bonn; and "Ample Divisors on Gorenstein Surfaces" at the University of Leiden, The Netherlands, Dec. 4.

Laurence R. Taylor, professor of mathematics, presented a colloquium on "Smooth Manifold Homeomorphic to 4-Dimensional Euclidean Space" at Purdue University, West Lafayette, Ind., Dec. 11.

J. Kerry Thomas, Nieuwland professor of chemistry, presented a colloquium, "Photochemistry on Colloidal Clay Systems" at the Army Research Office meeting at Aberdeen, Md., Nov. 12-14.

M. Katherine Tillman, associate professor in the Program of Liberal Studies, presented a paper titled "Newman on the Place of Reason in Spirituality" at the third annual Newman Conference at St. Thomas of Villanova University, Miami, Fla., Jan. 4-6.

Arvind Varma, chairman and professor of chemical engineering, presented a paper titled "Ethylene Oxidation on Supported Platinum Catalyst in a Non-Adiabatic Fixed-Bed Reactor: Experiments and Model" at the AIChE annual meeting held in San Francisco, Calif., Nov. 25-30. He also served as vice-chairman of a symposium on "Chemical Reactor Stability and Dynamics" at that meeting.

John P. Welle, assistant professor of modern and Classical languages, chaired a session on Film and Literature at the annual convention of the American Association of Teachers of Italian held Dec. 28-29 in Washington, D.C. He organized and chaired another session titled "Nuove questioni linguistiche e la poesia di Zanzotto," in which he presented a paper on "Il Galateo mirifico: The Lexicon of Zanzotto's Galateo."

Stephen T. Worland, professor of economics, delivered a paper titled "Rationality, Ceremonialism, and the Morality of Market Capitalism" at the annual convention of the Association for Social Economics in Dallas, Tex., Dec. 29, and served as a commentator on a paper by Rev. William Byron, S.J., titled "The U.S. Economy: A Moral-Ethical Perspective" at the convention.

Kevin M. Misiewicz, associate professor of accountancy and Arthur Young faculty fellow in taxation, appeared with James L. Wittenbach, Peat, Marwick, Mitchell associate professor of accountancy, on WNDU-TV's "Campus View" program Jan. 9. Their topic was "1985 Tax Reform?"

## erratum

Editor's Note: The following correction to Notre Dame Report #8 has been brought to the editor's attention. Underlined portions are the correct changes to be made.

John F. Santos, professor of psychology and director of the Gerontological Education, Research and Services Center, gave a special colloquium presentation, "A Model for the Development of a V.A. Training Program in Gerontology/Geriatrics" to the departments of geriatric medicine and psychiatry at Veterans Hospital, Tampa, Fla., Sept. 20. He also led a workshop on "Suicidal Risks, Reactions and Responsibilities: Working with Youth, the Aging and the Chronically Ill" and gave a presentation on "Suicide Among the Aging and the Chronically Ill" at Madison Center, South Bend, Sept. 27. He gave a presentation on "Formulations and Operationalization of Ethnicity and Minority Status Variables" as part of a symposium titled "Research on Gender and Ethnicity: Uses, Abuses and Dilemmas" at the 37th annual meeting of the Gerontological Society of America, San Antonio, Tex., Nov. 17.

# documen- tation

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## minutes of the academic council meeting december 10, 1984

(1) Provost O'Meara opened the meeting with a prayer.

(2) Father Hesburgh announced that the Trustees had approved the Academic Manual as amended.

### (3) Implementation Act

(a) Professor O'Meara passed out the proposed Implementation Act which had been unanimously recommended by the members of the Executive Committee.

(b) Professor O'Meara explained the rationale for reconstituting membership on the various committees. All committees specified in the Academic Manual will be re-elected from scratch.

(c) Father Hesburgh suggested that in the process of election indication should be given of who had previously been elected and for what term of office.

(d) A vote was taken on the Implementation Act and it was approved unanimously.

### (4) Titles for Documents

(a) The Executive Committee had recommended that the former "Academic Manual" be retitled the "Academic Articles." A vote was taken and the motion passed unanimously.

(b) With regard to the title of the former "Faculty Handbook," it was agreed that the Provost will recommend a title to the President.

### (5) Observers on the Academic Council

(a) Professor O'Meara passed out a document drawn up by the Executive Committee which specified, "Attendance at meetings of the Academic Council is limited to its members (or their representatives); the Director of Public Relations and Information (or a delegate); the ROTC Commander currently representing the three service departments (or a delegate); and others, including students, invited from time to time by the Executive Committee in connection with specific agenda items."

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(b) In a point of clarification it was indicated that substitute representatives cannot vote at Council meetings.

(c) A vote was taken on the question of observers on the Academic Council and the motion from the Executive Committee passed unanimously.

(6) Student Members of the Academic Council

(a) Bruce Lohman, on behalf of the student representatives, explained why approval was sought. The proposal read, "Student voting membership shall be determined as follows:

-- the Academic Commissioner as representative of Student Government and chairperson of the Student Academic Council Committee.

-- one graduate student chosen by the Graduate School Student Union from among the three graduates (Law, M.B.A., Graduate School) on the Committee.

-- two undergraduate students chosen by and from among the five undergraduates on the Committee. [Implementation of Article IV, Section 3, Subsection (a)]"

(b) A vote was taken on the proposal and it was approved unanimously.

(7) Master of Fine Arts Program

(a) Father Hesburgh commended Dr. Gordon for his fine work as President of the Council of Graduate Schools.

(b) Dr. Gordon explained that at the 210th Meeting of the Graduate Council (April 25, 1984), a motion was passed to approve a major modification of the Master of Fine Arts degree program in the Department of Art. The modification includes a change from forty to sixty credit hours, the addition of an extra year of class work, and the formal requirement of a thesis project. It would be binding on students admitted for the 1985-86 academic year.

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(c) Professors Beckman and Fern from the Art Department were present to offer explanation.

(d) The motion from the Graduate Council was voted on and approved unanimously.

(8) University Curriculum Report

Minutes taken by Professor Dutile follow.

Respectfully submitted,

Rev. Edward A. Malloy, C.S.C.  
(with the assistance of Prof. Fernand Dutile)

## appendix

### Discussion of Curriculum Report

Father Malloy introduced the Curriculum Committee Report. The discussion would proceed item by item, with any votes being taken only at the end of discussion. The prose of the Report is irrelevant and not subject to that ultimate vote. Two sorts of discussion are possible: (1) a general discussion on the role of the curriculum; and (2) a discussion of specific provisions. Curricula across the University are interrelated. Finally, any timetable for implementing action by the Council will have to await a final vote.

There followed a discussion of the Report item by item. Father Malloy pointed out that the Preamble embodied no grand theory, but an amalgam representing one perspective on education. The Curriculum Committee planned all along to append, for the purposes of discussion, the Report on the Quality of Undergraduate Life.

At this point, Dean Hofman, having distributed an outline of the freshman curriculum, traced the history of that curriculum. Two objectives permeate that curriculum: (1) to lay a foundation for subsequent study; (2) to allow the student an opportunity to explore different areas prior to selection of a major. Dean Hofman then described the freshman curriculum in detail. Various colleges specify one or more of the "electives" allowed freshmen. Because of the many real curricular concerns for freshmen, Dean Hofman welcomed the Council's consideration of the curriculum.

Father Malloy pointed out that the proposed curriculum elongates the periods of time in which required courses could be taken and adds an extra course in history/social science and also in fine arts/literature.

ROTC has indicated a concern that the addition of two courses will require a 15 to 20 credit-hour overload for their students, due to College requirements such as those in Engineering. ROTC would like some of its courses to count for requirements in Engineering. (Father Hesburgh pointed out that one in ten students is a ROTC student and that many ROTC students are Engineering students.) Father Malloy also summarized Professor Carberry's curricular recommendations. Two College Councils have suggested that Arts and Letters students be required to take courses outside Arts and Letters, i.e., in science, business and engineering.

The Air Force ROTC representative stressed the six-hour overload that the proposed curriculum would add to the present overload of ROTC students. He urged that ROTC courses be counted against certain college requirements. The Navy ROTC representative pointed out that the students are migrating from Engineering to Business due to that overload, despite the fact that the Navy needs engineers. Some curricular adjustment of the academic pressure is required. Navy ROTC would like to maintain its relatively low attrition rate. The Air Force ROTC representative asserted that recruitment could be hurt by the proposed requirements.

Dean Schmitz pointed out that from one perspective the matter is not an engineering problem. Another approach would be to consider whether ROTC courses could be substituted for Engineering courses. Dean Schmitz said that in a certain sense the overload does not work too great a difficulty since ROTC students, due to their financial advantages, need not have a part-time job. Professor Nicgorski urged that the problem be worked out without increasing the overload. Quality requires less accumulation of credits and

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courses and more emphasis on the substance of the work. Father Hesburgh urged that Father Malloy form a committee mandated to come back to the Council with a solution to the ROTC problem.

Dean Castellino argued that students need more than one science course. Moreover, he said, a language requirement is more important than a fine arts/literature course. Professor Roos asked if the School of Science was prepared to offer additional courses to all Arts and Letters students. Dean Castellino responded in the affirmative, and suggested a life science course.

Mr. Lohman, the Academic Commissioner for Student Government, stated that Engineering and Science students were enthusiastic about having Arts and Letters students take courses in Engineering and Science, although Arts and Letters students seemed less enthusiastic about the prospect. Dean Loux noted that about one-quarter of Arts and Letters students took ALPA.

Mr. Miller urged that the curriculum touch upon non-Western cultures, perhaps through some non-language course like history or literature. Father Hesburgh stated that the University should not waste valuable time on elementary language courses. Students were fully able to learn elementary language on their own.

Professor Bower, representing the Curriculum Committee, pointed out that he too was interested in a non-Western perspective course, but that each addition to the requirements, given time constraints, amputates another part of the curriculum. Professor Sayre asked the rationale underlying an additional history/social science requirement since the student might take a second history or a second social science course rather than a course in a category different from that already taken. Dean Riley agreed that non-Business students should take business courses, but pointed out that the Business College does not have enough faculty or classrooms to respond to that need. Dean Hofman asked if the Freshman Seminar topic could be selected in such a way as to fulfill a course requirement.

Dean Schmitz voiced his surprise that the proposed curriculum did not carry greater science and mathematics requirements. Dean Schmitz also said that his College Council spent much time discussing the Carberry proposal, in light of the fact that Engineering students in the proposed curriculum would have all their "electives" pre-empted. Father Hesburgh asked how Arts and Letters could best use the few hours Engineering students have available to promote a liberal education. Professor Nicgorski indicated that the Freshman Seminar had the objective of putting students with expert faculty, but that the objective had not always worked out.

Father Burrell noted that increased specialization for professional education is fragmenting Arts and Letters, and that this trend was in tension with the need to integrate. Dr. Gordon asserted that all faculty should be concentrating on communication skills.

Mr. Lohman stated that students are most discouraged by their perception that research requirements imposed upon faculty inhibit effective undergraduate education. He urged a balance. Professor Roos said that what the Arts and Letters student needs in science is a seminar situation with a senior professor, an objective that is logistically difficult to meet.

With regard to the "Basic Skills" section of the Curriculum Report, Father Malloy noted the student suggestion for more uniform topics in the Freshman Seminar. This too, however, presents logistical problems since the teachers teach in their areas of research.

Professor Gleason urged that workshops be offered for non-English faculty in order to improve their skills in the teaching of writing. Dr. Leege suggested that the four-day program for those teaching in the Freshman Seminar program could be expanded to fulfill Professor Gleason's objectives.

Father Malloy bemoaned the "cultural" phenomenon which discourages student participation in class. Father Tyson suggested that some communication skills could be developed through the dormitory forum. Finding the appropriate vehicle is important. Father Malloy added that the Toastmasters group does promote communication skills, at least on a limited basis.

Both Father Tyson and Dean Loux observed that students appreciate course writing requirements. Student representatives agreed that writing constitutes a good course component, even as required in an essay examination question.

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Father Malloy then introduced discussion of the mathematics requirements. The Committee recommends retention of the present two-course requirement, but suggests extending to two years the time in which Business, and Arts and Letters students might fulfill it. He noted that the Mathematics Department felt that the two courses should be taken in consecutive semesters for purposes of continuity and student enthusiasm, a sentiment with which the Business College agreed. The Committee informally expressed its desire for more choice in math courses.

Professor Delaney saw a flexibility advantage in putting off completion of math requirements even though, due to individual College requirements, many students will fulfill their math obligations earlier.

Professor Tavis noted that for Business students consecutive semesters of statistics are required, but that Arts and Letters students need not be bound by that fact. Of course, this particular requirement could inhibit the transfer of Arts and Letters students to Business. Dean Hofman pointed out that many students intending to major in Arts and Letters ultimately shift to the Business School. Father Burrell, noting that requiring two consecutive math courses in one year keeps the student more flexible ultimately, suggested the presence of a hidden agenda. Professor McGlinn observed that science need not be taken in the first year and that maybe switches are not that important, in light of the fact that a specific course, calculus, may be the one needed for transfer.

Professor Bower stressed that in allowing two years for the math requirement the Committee's objective was flexibility. Pedagogically, however, is it wise? The Mathematics Department says no, and transfers complicate the matter. He concluded that no great harm will flow from requiring both courses to be taken in the first year for reasons other than flexibility.

Mr. Rooney said that perhaps the weaker students would put off their mathematics requirements despite the difficulty of getting back on track after a long absence from the subject matter. Father Tyson, urging that the Colleges determine when courses should be taken, said that students will cover their bases to preserve their options when they are unsure of their majors. In response to a question by Father Hesburgh, Dean Hofman specified which parts of the Freshman year are dictated by which Colleges. Professor O'Meara asserted that the serious question concerns gaps, the gap between high school mathematics and mathematics at Notre Dame, and the gap between two mathematics courses here. Professor McGlinn noted that the best time for taking a math course might be just before taking a course heavily dependent upon that aspect of mathematics.

Finally, at Father Hesburgh's request, Father Malloy briefly previewed the Council's discussion of the rest of the Curriculum Report.

### **Addendum 1. Implementation of the 1984 Academic Manual**

The Academic Manual, as approved by the Academic Council on November 7, 1984, is hereby immediately and fully put into effect, with the following qualifications:

- (1) Section III 3(e) ("Qualifications for Conducting Courses") will take effect in the Fall 1985 Semester.
- (2) Newly created committees are to be duly constituted as soon as reasonably possible.
- (3) Any change in membership of a surviving committee, including the Academic Council, will take effect at the beginning of the Fall 1985 semester unless the current committee chairperson elects to implement the change earlier. Constituencies whose representation in the Academic Council have been reduced by the 1984 Academic Manual Revision should, during the Spring 1985 semester, hold elections to select all elected representatives for the 1985-86 Academic Council. The Provost's Office will provide each such constituency with the number of representatives to be elected and, in order to effectuate the Manual's requirement that "one third of the elected membership [be] elected each year," the expiration date of each term.
- (4) Section IV(3)(i) ("The University Committee on Admissions, Scholarships and Financial Aid") will take effect at the beginning of the Fall 1985 semester or, if the current chairman of the University Committee on Admissions should so elect, earlier. At that time, the University Committee on Scholarships and Financial Aid will cease to exist.

Addendum 2. Letter from Dr. Robert E. Gordon to Rev. Edward A. Malloy

OFFICE OF ADVANCED STUDIES  
UNIVERSITY OF NOTRE DAME

NOTRE DAME • INDIANA • 46556

October 22, 1984

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Rev. Edward Malloy, C.S.C.  
Secretary, Academic Council  
University of Notre Dame  
Notre Dame, Indiana 46556

Dear Father Malloy:

At its 210th Meeting, April 25, 1984, the Graduate Council passed a motion to approve and recommend to the Academic Council for its approval, a major modification of the Master of Fine Arts degree program in the Department of Art. The modification is to increase the minimal 40 credit hour program to a more normal 60 credit hours, with an accompanying strengthening of the thesis and final project aspects of the program.

Highlights of the proposal are captured in the attached copy of the minutes of the Council reproduced from Notre Dame Report 83-84 (20): 548-549. The proposal document was appended to those minutes and is reproduced from pages 550-551 of the same issue.

At the meeting of the Academic Council to consider this recommendation, it would be in order to invite the Chairman of the Department, Professor Beckman, and its Director of Graduate Studies, Dr. Fern, in order that they might respond to any specific questions.

Sincerely,



Robert E. Gordon, Ph.D.  
Professor of Biology  
Vice President for  
Advanced Studies

Chairman, Graduate Council

REG/hb  
enclosure  
cc Professor Frederick Beckman  
Dr. Thomas S. Fern  
Dean Michael Loux

# minutes of the 210th graduate council meeting april 25, 1984

Board Room 121, Hayes-Healy Center

The meeting was convened at 3:30 p.m. on April 25, 1984. All members were present except the following: Dean Francis J. Castellino, replaced by Dr. John G. Duman; Dean Michael J. Loux, replaced by Dr. Roger Skurski; Mr. Robert C. Miller, replaced by Mrs. Maureen Gleason; Dean Frank K. Reilly, replaced by Dr. Yusaku Furuhashi; Dr. Cornelius F. Delaney, excused and Dr. Nathan O. Hatch, excused. Prof. Frederick S. Beckman, chairman of the Art Department and Prof. Thomas S. Fern, director of Graduate Studies of the same department were also present.

## I. Minutes of the 209th Meeting

The minutes of the 209th meeting was approved with some changes in the second paragraph of section III. The amended sentences run as follows:

The stumbling block is that under this plan the Bioengineering program could admit students and grant degrees. In Dean Schmitz's opinion, all students should be admitted into those departments which provide faculty, space and other resources to the program.

## II. A Proposal to Strengthen the Master of Fine Arts Program at Notre Dame

The chairman welcomed Prof. Frederick S. Beckman and Prof. Thomas S. Fern and asked them to summarize their department's view with regard to strengthening the Master's of Fine Arts program. Professor Fern summarized the department's proposal (see Appendix). The floor was then opened for discussion. The following points were made:

- Some schools instituted the Doctor of Fine Arts program but it is believed that this program is no longer offered anywhere. The MFA continues to be the traditional terminal degree in Art.

- The MFA is a studio art program combined with a research element.

- In the current year, we have 17 MFA, 7 MA and 6 nondegree students for a total of 30 graduate students at Notre Dame.

- Graduate students in the Art Department are usually supported for one or two years, not for their entire program.

- The Department proposes that the number of academic courses in the MFA program be increased from 2 to 4 and the total credit hours from 40 to 60. The proposed increase in credit hours is constant with the recommendations of the external reviews in 1977.

- The College of Arts and Letters is in favor of the Department's proposal.

- The Department's chief concern about the proposed increase in credit hours is its effect on potential applicants.

- There are about 200 schools with the MFA program in the U.S., 35 of which have a three-year, sixty-credit hour requirement. In general, the better schools (e.g., Yale, Indiana, Iowa, Cornell, Columbia, etc.) have the three-year program.

- The M.A. program does not provide sufficiently strong training for our graduates to compete for college and university teaching positions.

- We had 30 applicants to the MFA program this year; three have been accepted.

- There is no consideration for increased University support for graduate students in the Art Department at the present; efforts may be made to seek additional outside support.

- The work load of the present faculty in the department will be redistributed to make the proposed increase in credit hours possible.

As there were no further comments, it was moved that the Graduate Council submit the Art Department's proposal to the Academic Council for approval. The motion was carried.

### III. Admission to Degree Candidacy

The list was approved by the Council.

### IV. Report of the Nominating Committee for the Graduate Council Election

Prof. Roger Skurski presented the report of the Nominating Committee for the Graduate Council election, in the absence of the committee chairman, Prof. Nathan O. Hatch. The nominees were:

#### Humanities:

|                         |         |
|-------------------------|---------|
| Prof. Charles Rosenberg | Art     |
| Prof. Thomas Werge      | English |

#### Social Sciences:

|                     |            |
|---------------------|------------|
| Prof. Scott Maxwell | Psychology |
| Prof. Michael Welch | Sociology  |

#### Engineering:

|                      |                        |
|----------------------|------------------------|
| Prof. Eugene Henry   | Electrical Engineering |
| Prof. Gordon Sargent | Metallurgy             |

The motion to accept the nominations was carried.

### V. Chairman's Remarks

1. Master's Program in Architecture: In December 1980, the Graduate Council had accepted for submission to the Academic Council the proposal to establish the master's program in architecture, the chairman announced the successful development of new resources for student support. The chairman announced that endowments sufficient to support six graduate fellowships would be in place by September of this year and that, if Academic Council approval is forthcoming this fall, the new program may begin in September 1985.

2. Admissions: As of April 19, there were 1,424 applicants (1,391 last year). Of this number, 452 applicants were accepted, 523 rejected and 449 without action. Of the 452 accepted applicants, 161 or 36% confirmed (152 or 33% last year), 95 or 21% declined (109 or 24% last year), and 191 or 43% (198 or 43% last year) were without response. Judging from the quality of First-Year Schmitt fellows for 1984-85, we seem to have been able to attract students who are a notch better than those in the past.

3. Frances C. Allen Fellowship: The chairman congratulated Ms. Kimberly Blaeser on her reception of the Frances C. Allen Fellowship from the Newberry Library in Chicago. In the words of the award letter from the Newberry Library, it was the largest (and also the longest in terms of fellowship tenure) Allen fellowship ever awarded.

4. Travel Funds: The Jesse H. Jones Faculty Research Travel Fund received 14 proposals, of which 11 were approved for funding. There were 12 proposals from graduate students to the Zahm Research Travel Fund, of which 10 were approved.

5. Litigation: Several meetings ago, mention was made of cases which could have led to litigation. Recently, there was another such case. The common element in all these cases was the fact that some faculty members did not read the Graduate Bulletin and made promises to students concerning program requirements, which were contradictory to Graduate School regulations.

6. Foreign Language Requirement: The chairman has discussed with Dean Loux regarding the frequency of graduate foreign language reading courses. For the summer session, there will be reading courses in French, German, Spanish and in other languages if there is sufficient interest.

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7. Burton Fellowship: A graduate fellowship in Radiation Chemistry has been established to honor Prof. Milton Burton, the first director of the Radiation Laboratory.

VI. Other Business.

Various members of the Council brought up the following:

1. English Language Examination: Arrangements will be made with the English Department concerning a suitable English language examination for foreign students who wish to select English to meet the Graduate School foreign language requirement.
2. Graduate Fellowship Endowments: If approved for the new University fund-raising campaign and if this part of the campaign is successful, such endowments will not be actually established until the early 1990s.
3. Overhead on Tuition: Some members observed that the policy of charging overhead on tuition support from grants may hurt our faculty recruitment efforts. Prospective faculty may be deterred when they hear how expensive it would be to support graduate students at Notre Dame from their grants.
4. Student Support in the Summer: To rely on faculty grants to support graduate students in the summer will continue to be a precarious solution. On the other hand, it is difficult for the University to increase the dollar value of the stipend, the number of stipend slots and at the same time to provide student support in the summer in addition to the academic year.

As there was no other business, the chairman closed the final meeting of the year by thanking all members for their participation, in particular those members who would retire from the Council this year (Prof. Donald P. Costello, Prof. Nathan O. Hatch, Prof. Thomas L. Theis, Ms. Kimberly Blaeser and Ms. Gay Canough). He wished everyone a good summer. The meeting adjourned at 4:20 p.m.

## Appendix

### A PROPOSAL TO STRENGTHEN THE MASTER OF FINE ARTS PROGRAM AT NOTRE DAME

The MFA degree, as a studio-oriented program, was first offered by Yale University in 1936. In the '40s, several other universities of note adopted similar programs and Notre Dame awarded its first MFA in 1950. 121 institutions offer the degree today. This degree began and remains the one sought by artists and designers who intend to teach at the college level.

The College Art Association of America (CAA), after a thorough study of graduate education in the visual arts, recommended in 1970 that the MFA be recognized as the terminal degree in studio art. This recognition has been accepted throughout the academic community.

In 1977 the CAA published its first standards for MFA programs. These were guidelines that set absolute minimums and encouraged higher and more ideal levels. The CAA recommends, for example, that two years of graduate study be the minimum with three years preferable and advisable. Further, that the MFA consist of 60 semester credits of graduate level work.

Notre Dame's degree has been a two-year, 40 hours of credit program since its inception. It meets the residency minimum but falls short of the course work requirement. The art faculty has discussed this problem off and on since 1977 and only this winter (1984) approved the move to meet the CAA standards on all fronts.

The discrepancy between Notre Dame's minimum and that of the CAA was made more acute by the External Review Report of the Art Department's graduate program in 1978. While the report was generally favorable and supportive, it urged the department to adopt the more rigorous standard of three years and 60 credits for its MFA degree.

There is a third condition, the final straw one might say, that brought the art faculty to their recent decision and that is the shift from a written paper supporting an MFA candidate's final creative project to a proper thesis and final project. The thesis component was introduced in 1982 by the present Director of Graduate Studies in art.

This new emphasis has been revelatory. It revealed what had long been suspected, that most of our MFA candidates could not write or had great difficulty doing so; that they had little experience in research methodologies; and that the writing and the research consumed enormous amounts of time -- time that should have been spent in studio activity.

With a two-year program such as we have, the new thesis requirement cuts too deeply into the artistic development of the MFA student. The MFA student as an artist must achieve professional competence if he or she is to compete for an academic position. And yet, that same objective of joining a faculty and spending a career in teaching requires the MFA candidate be an educated person as well. After considerable agonizing, the inadequacies of a two-year degree became apparent and the faculty decided to adopt a three-year program.

Under the proposed three-year, 60-credit MFA there will be a 35% increase in studio and art history course work. Most of this will occur in the first two years, leaving the third year somewhat freer for research, thesis writing, and development of the final creative project. In short, the MFA program and its students will be strengthened by this move. Their artistic development will be enriched and similar improvements are expected in their scholarly endeavors. There is no reason why an artist must be a dumbbell. History, in fact, reveals that many of the finest painters, designers, and sculptors were bright, articulate thinkers who formulated theories and artistic principles and taught them to others. Artistic ability and intellectual capacity are not mutually exclusive.

The final objective in strengthening the MFA program is to attract applicants with academic skills and artistic superiority. The director of Graduate Studies favors higher GRE scores as one way of achieving this but is also trying to increase the research and writing component for the MFA in the department's art history courses.

In summary, the proposed change should make the recipient of the Master of Fine Arts degree from Notre Dame a more attractive candidate for a college teaching position. At the same time, the more rigorous nature of the degree, once the word has gotten around, should attract a better quality of applicant than is now the case.

#### PRESENT AND FUTURE DISTRIBUTION OF THE CREDITS IN THE MFA PROGRAM

| <u>Present 2 Year</u> |           | <u>Proposed 3 Year</u> |           |
|-----------------------|-----------|------------------------|-----------|
| Studio                | 31        | Studio                 | 39        |
| Art History           | 06        | Art History            | 12        |
| Graduate Seminar      | 03        | Graduate Seminar       | 03        |
| Final Project         | 00        | Final Project          | 03        |
| Thesis                | <u>00</u> | Thesis                 | <u>03</u> |
|                       | 40        |                        | 60        |

The average graduate student will take 12 credit hours for the first four semesters and six for the remaining two terms. Half of the credit in the last two semesters' load will be in thesis and final project.

Our chief worry as we strengthen the MFA, in light of the low financial status of artists and art students is, what effect will the added cost have on potential applicants?

We also realize and we are concerned that our few Teaching Assistantships and Tuition Scholarships will be locked-up for longer periods in the new program.

Thomas S. Fern  
Director of Graduate Studies  
April 12, 1984

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# addition to nd report no. 4

Institutional Biosafety Committee

Membership

Term Expires

|  |            |
|--|------------|
| Subhash C. Basu, Professor of Chemistry, Chairman  | 1985       |
| John G. Duman, Associate Professor of Biology  | 1987       |
| Morton S. Fuchs, Chairman of the Departments of Biology and Microbiology                     | 1985       |
| John R. O'Fallon, Assistant Vice President for Advanced Studies, Executive Secretary         | ex officio |
| Kenneth R. Olson, Associate Professor of Physiology, South Bend Center for Medical Education | 1985       |
| Paul E. Trost, Pollution Control Officer, St. Joseph County Health Department                | 1987       |
| Robert M. Zerr, Director of Environmental Health and Safety, Official Observer               | ex officio |

# advanced studies

## 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 Humanities, Science, and Technology: NEH Research Awards in Humanities, Science, and Technology

No. FY85-378

#### Program:

Grants in this category support research on a broad range of topics designed to improve the ability of the humanities to interpret, analyze, and assess both the practices and the impact of science and technology. Appropriate subjects for inquiry might be, but need not be limited to, the following: the form and content of scientific knowledge; the processes through which scientific knowledge is developed; the design and deployment of technology; and other elements of culture; the value conflicts which may accompany scientific and technological change; and the methods and concepts of humanities study of science and technology itself. Proposals which approach any of these topics from the perspectives of any of the humanities disciplines are invited.

#### Deadline:

March 1, 1985

#### For Further Information Contact:

National Endowment for the Humanities  
Division of Research Programs  
Basic Research Programs  
David E. Wright  
Room 319  
1100 Pennsylvania Avenue, NW  
Washington, DC 20506  
(202) 786-0207

(From 1984 ARIS)

### National Endowment for the Humanities Project Research

No. FY85-377

#### Program:

Grants in this category support centers for collaborative or coordinated research, regional studies, and projects in archaeology. 1) Centers for Collaborative or Coordinated

Research: Support is available to institutions for the establishment of research centers or similarly structured programs for research focusing on a single topic or a series of closely related topics. 2) Regional Studies: Support is given for basic research on the history and customs of American states, regions, and communities. Projects which plan comparative studies or which deal with multi-state regions are eligible for outright funding with a cost share requirement of 20% or more in institutional awards. When a project deals with a single state or locality, a cost share of 50% is required. 3) Project in Archaeology: Support is given for American and foreign archaeology, including survey, excavation, materials analysis, laboratory research, preservation of artifacts, and pre-publication preparation of manuscripts. Survey and excavation projects are supported with outright funds of up to \$10,000 per year for no more than 50% of total project costs.

#### Deadline:

March 1, 1985

#### For Further Information Contact:

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

(From 1984 ARIS)

## science

### National Institutes of Health Grants Associates Program

No. FY85-379

#### Program:

The Grants Associates program offers a 12-month structured training experience for research scientists who are interested in becoming health scientist administrators at the National Institutes of Health. Grants Associates have the opportunity to gain on-the-job experience under the guidance of a senior scientist administrator. The program offers a limited number of positions each year on a highly selective basis.

#### Eligibility:

Applicants must hold a doctorate or the equivalent in a discipline related to the biomedical or behavioral sciences, have

significant independent research experience beyond the doctoral level, and be motivated to enter health science administration. U.S. citizenship is required.

Support:

Grants Associates are appointed by the Office of Personnel Management to positions at the GS-12 to GS-14 grade level.

For Further Information Contact:

National Institutes of Health  
Director  
Grants Associates Program  
Office of Extramural Research and  
Training  
Building 31, Room 1B-55Y  
Bethesda, MD 20205

**National Institutes of Health  
Minority Biomedical Support (MBS) Program**

No. FY85-389

Program:

The purpose of the Minority Biomedical Support (MBS) Program is to further the NIH's commitment towards ensuring ethnic minority groups an equal opportunity to pursue careers in bio-medical research. The program has two major goals: to increase the number and quality of minority health scientists; and to strengthen the capability of eligible minority institutions to provide health career opportunities to their students and to conduct research in the health sciences.

Eligibility:

To be eligible for a grant under this program, an applicant must be located in a State, the District of Columbia, Puerto Rico, the Virgin Islands, the Canal Zone, Guam, American Samoa, or the Trust Territory of the Pacific Islands, and be one of the following:

- A public or private nonprofit university, 4-year college, or other institution offering undergraduate, graduate, or health professional degrees with a traditionally high (more than 50 percent) minority student enrollment; or
- A public or private nonprofit 2-year college, with a traditionally high (more than 50 percent) minority student enrollment; or
- A public or private nonprofit university, 4-year college, or other institution offering undergraduate, graduate, or health professional degrees, with a student enrollment of which a significant proportion (but not necessarily more than 50 percent) is derived from ethnic minorities, provided the Secretary of DHHS determines that said institution has a demonstrated commitment to the special encouragement of and assistance to ethnic minority faculty, students, and investigators; or

- An Indian tribe which has a recognized governing body and which performs substantial governmental functions, or an Alaska Regional Corporation (ARC) as defined in the Alaska Native Claims Settlement Act (43 U.S.C. 1601 et seq.).

Support:

Through institutional awards, the MBS Program provides for academic year and summer salaries and wages for faculty, students and support personnel needed to conduct a research project. Other cost categories supported include: equipment, supplies, travel, and alterations and renovations.

For Further Information Contact:

National Institutes of Health  
Minority Biomedical Support Program  
Division of Research Resources  
Building 31, Room 5B35  
Bethesda, MD 20205  
(301) 496-6743

**National Institutes of Health  
MARC Faculty Fellowships**

No. FY85-390

Program:

This program provides opportunities for advanced research training for selected faculty members of four-year colleges, universities and health professional schools with substantial enrollments of ethnic minorities. Institutions may nominate faculty members to apply for the MARC fellowship to support a period of advanced study and research training in graduate departments and laboratories as candidates for a Ph.D. degree or for post-doctoral research training in specific areas of the biomedical sciences.

Eligibility:

The applicant must be a faculty member of an institution that meets the criteria of the MARC programs, and must have a letter of nomination from the responsible administration official at that institution.

Support:

Individuals may receive up to 3 years of support. The amount of the stipend awarded will be commensurate with salary that the individual would normally receive from the institution up to a maximum of \$25,000. Upon completion of the training, fellows are expected to return to their sponsoring institutions to do research and teaching so as to assist minority students in preparing for research careers in the biomedical sciences.

For Further Information Contact:

National Institutes of Health  
Director  
MARC Program  
National Institute of General Medical  
Sciences  
Westwood Building, Room 9A-18  
Bethesda, MD 20205  
(301) 496-7941

## National Institutes of Health Minority Hypertension Research Development Summer Program

No. FY85-394

### Program:

This special program under the Heart and Vascular Diseases Division of the National Heart, Lung, and Blood Institute is designed to provide minority school faculty members and graduate students with opportunities for research development in the area of hypertension. Another goal of the program is to establish cooperative research training between minority schools and recognized centers of hypertension research.

### Eligibility:

Training is offered through hypertension centers that have well-established hypertension research and training programs and are within 100 miles of a minority school or provide satisfactory alternative arrangements for communication and exchange. The centers will collaborate with minority schools to work out plans for the identification, selection, and development of participating trainees.

### Support:

Stipends for both faculty members and graduates are provided. An amount may also be requested to cover specific institutional costs of training.

### For Further Information Contact

National Institutes of Health  
Research Training Branch  
Division of Heart and Vascular Diseases  
National Heart, Lung, and Blood Institute  
Federal Building, Room 3A-08  
Bethesda, MD 20205  
(301) 496-1724

## National Institutes of Health MARC Honors Undergraduate Research Training Program

No. FY85-393

### Program:

A facet of the Minority Access to Research Careers Program that is intended to assist minority institutions in training greater numbers of scientists and teachers in health-related fields, this undergraduate research training program has three objectives: to increase the number of well-prepared minority students who can compete successfully for entry into graduate programs leading to a Ph.D.; to aid the development of a strong biological sciences curriculum; and to strengthen biomedical research training programs.

### Eligibility:

To be eligible for a grant under this program, an applicant institution must be:

- A public or private nonprofit university, 4-year college, or other institution offering undergraduate, graduate, or health professional degrees, with a student enrollment of which a significant proportion (but not necessarily a majority) is derived from ethnic minorities, provided the Secretary (DHHS) determines that said institution has a demonstrated commitment to the special encouragement of and assistance to ethnic minority faculty, students, and investigators; and
- Located in a State, the District of Columbia, Puerto Rico, the Virgin Islands, the Canal Zone, Guam, American Samoa, or the U.S. Trust Territory of the Pacific Islands.

### Support:

Selected institutions will be given support for junior and senior level honor students. The honors program should be aimed at significantly improving the research equipment and supplies essential to the program, and for stipends, tuition fees, and limited travel costs for the trainees. Each institutional grant has a maximum support period of 5 years.

### For Further Information Contact:

National Institutes of Health  
MARC Program  
National Institute of General Medical  
Sciences  
Westwood Building, Room 9A-18  
Bethesda, MD 20205  
(301) 496-7941

## National Institutes of Health MARC Predoctoral Fellowship

No. FY85-392

### Program:

The MARC Predoctoral Fellowship Program provides support for research training leading to the Ph.D. degree in the biomedical sciences for selected students who are graduates of the MARC Honors Undergraduate Research Training Program.

### Eligibility:

Individuals must be distinguished graduates of the MARC Honors Undergraduate Research Training Program, and must be accepted into a specified Ph.D. program in the biomedical sciences. Applicants seeking a combined degree must be accepted into a combined (MD-Ph.D.) program. Support is not available for individuals enrolled only in medical or other professional schools.

### Support:

An annual stipend is provided as a subsistence allowance to help a MARC fellow defray living expenses during the training period. Also, funds will be provided per 12-month period to the sponsoring institution to help defray training expenses such as tuition, fees, research supplies, equipment, travel to scientific meetings, and related items.

For Further Information Contact

National Institutes of Health  
Director  
MARC Program  
National Institute of General Medical  
Sciences  
Westwood Building, Room 9A-18  
Bethesda, MD 20205  
(301) 496-7941

**National Institutes of Health  
Minority Summer Program in Pulmonary  
Research**

No. FY85-396

Program:

This summer program under the Division of Lung Diseases, National Heart, Lung, and Blood Institute, is intended to encourage qualified minority school faculty members to develop interests and skills in research in pulmonary diseases at established pulmonary training centers and to stimulate pulmonary research by offering minority school faculty members and students the opportunity to enhance their research capabilities at domestic institutions which offer superior opportunities in this area.

Eligibility:

To be eligible for support under the Minority Summer Program in Pulmonary Research, a training center must have a demonstrated pulmonary research training capability and must provide assurance of cooperation from one or more minority institutions in the nomination of trainees and the implementation of the training program. The overall direction of the minority program in pulmonary research, including the selection and appointment of trainees, will be the responsibility of a joint panel from the participating pulmonary training center and minority school(s).

Support:

Stipends for both faculty members and graduate students are provided. Also, an amount may be requested to cover trainee related expenses.

For Further Information Contact:

National Institutes of Health  
Research Training and Development Office  
Prevention, Education, and Manpower  
Branch  
Division of Lung Diseases  
National Heart, Lung and Blood Institute  
Westwood Building, Room 6A12  
Bethesda, MD 20205  
(301) 496-7668

**National Institutes of Health  
MARC Visiting Scientist Award**

No. FY85-391

Program:

The purpose of this award is to provide support for outstanding scientist-teachers to

serve as visiting scientists at qualifying institutions. The primary intention is to strengthen research and teaching programs in these institutions' health research fields for the benefit of students and faculty by drawing upon the special talents of scientists from other institutions. The visiting scientists will benefit through the added experience gained by involvement in innovative science education and research development programs.

Eligibility:

Individuals nominated as visiting scientists in this program should be recognized scientist-scholars in such biomedical science fields as cellular and molecular biology, genetics, pharmacology, toxicology, biomedical engineering, physiological science, and/or clinical research areas.

Support:

Fellowships are awarded for periods of 3 to 12 months. The stipend is determined by the nominees' current salary at the institution at which they are employed. Any sabbatical pay or other salary support for the proposed period in residence will be taken into account. An additional travel allowance may be provided equivalent to round trip coach air fare between the visiting scientist's home institution and the sponsoring institution.

For Further Information Contact:

National Institutes of Health  
Director  
MARC Programs  
National Institute General Medical  
Sciences  
Westwood Building, Room 9A-18  
Bethesda, MD 20205  
(301) 496-7941

**National Institutes of Health  
NCI Cooperative Minority Biomedical Program**

No. FY85-388

Program:

The National Cancer Institute Cooperative Minority Biomedical Program (CMBP) provides support to minority scientists to assist in providing increased opportunities for enlarging their capabilities in cancer research and to influence more minority scientists to develop careers as cancer investigators. Support is provided through a domestic research institution already receiving NCI grants and interested in including minority researchers in their cancer research.

Eligibility:

Any domestic institution with an active cancer research grant is eligible to submit a supplemental application on behalf of a principal investigator for the exclusive purpose of including minority researchers in the project.

A. **Minority Investigator** - A minority investigator may be described as a U.S. citizen from an under-represented ethnic American nationality (e.g., Black, Hispanic, Native American, Asian or Pacific Islander). Minority investigators are expected to provide a complete curriculum vitae which includes a list of any research publications. They may be affiliated with the applicant institution(s) or some other institution. The program is not intended to pay stipends for student trainees or support candidates without any research background. Investigators must be willing to devote a minimum of 30 percent of their time to the research project.

B. **Research Project** - The proposed project for the supplement must be closely related to the currently funded research grant. It may represent an increased effort in an already approved objective of the research project or propose to enhance the effectiveness of the overall research. The nature of the research should provide minority investigators an opportunity to contribute intellectually to the program and to broaden their own potential. The scope of the project will generally be comprehensive enough to require at least 2 years for completion and the supplemental application should include such a research plan and projected budget sheets. With appropriate justification a 1-year application may be acceptable. No new supplemental applications will be accepted in the final year of the current award.

Support:

Funding will be made in accordance with usual NIH policy for supplements. Each minority investigator budget shall not exceed \$25,000 in direct costs and may not include equipment. Funding for the supplement is always contingent on funding of the parent grant.

For Further Information Contact:

National Institutes of Health  
The Cooperative Minority Biomedical  
Program  
Division of Extramural Activities  
National Cancer Institute  
Building 31, Room 10A-04  
Bethesda, MD 20205  
(301) 496-7344

**National Institutes of Health  
National Institutes Extramural Associates  
Programs**

No. FY85-387

Program:

This program is directed towards improving opportunities for women and ethnic minorities to participate in and contribute towards biomedical research. To achieve this purpose, the NIH invites key science administrators from minority schools and women's academic institutions to spend 5 months in rotating

work assignments at the NIH and elsewhere. The associates gain knowledge about Federal health-related programs, grants and contracts operations, grant support mechanisms, and the policies and procedures that govern grant awards.

The program consists of working assignments and other experience designed for each participant in consultation with a senior NIH scientist administrator, who also serves as the individual's advisor.

Eligibility:

A person currently serving as an institution's administrator for biomedical or behavioral research or an individual about to assume such duties may be nominated by the president or an equivalent official. In addition to the qualifications and interests of the nominee, emphasis is on the demonstrated contribution of the institution to the advancement of ethnic minorities and women, on its readiness to improve its health-related research and training, and on its plan to utilize the associate's expertise after participation in the program.

Support:

The institution will be reimbursed by the NIH for salary, travel, and living expenses of the associate under the provisions of the Intergovernmental Personnel Act. Cost sharing at the 50-50 percent level is expected.

For Further Information Contact:

National Institutes of Health  
Director  
Extramural Associates Program  
Bldg. 31, Room 1B59  
Bethesda, MD 20205  
(301) 469-9728

**National Institutes of Health  
NIH-Research Apprenticeship Program for  
Minority High School Students**

No. FY85-395

Program:

This program is designed to stimulate broader interest among minority high school students in science careers and to establish individualized working relationships between these students and active researchers.

Eligibility:

Eligible institutions are those that were awarded grants during the latest complete Federal Fiscal Year from either the Biomedical Research Support (BRSP) program or the Minority Biomedical Research Support (MBRS) program.

Support:

Support for this program is provided to an eligible institution whose program director is responsible for the recruitment and selec-

of the apprentices and assignment of each to an investigator. Apprentices are paid a salary equivalent to the minimum wage.

For Further Information Contact:

National Institutes of Health  
Biomedical Research Support  
Program Branch  
Division of Research Resources  
Building 31, Room 5B23  
Bethesda, MD 20205  
(301) 496-6743

**National Institutes of Health  
New Investigators Research Award**

No. FY85-383

Program:

The New Investigator Research Award (NIRA) program is designed to encourage new investigators, including those who may have interrupted early promising research careers, in the basic or clinical science disciplines to develop their research within the program interests of the NIH. This award is aimed at helping investigators make the transition from training status to established investigator.

Eligibility:

An applicant investigator must be sponsored by a non-Federal public or private non-profit or for-profit institution engaged in health-related research and located in the United States or its possessions and territories. The awards are restricted to individuals who have not previously been principal investigators on a Public Health Service supported research project. An exception to this rule may be made if individuals are changing their field of scientific endeavor.

The principal investigator must have a doctorate degree or its equivalent and will have no more than 5 years of research experience after completion of formal training at the time the award is made. Principal investigators are directly responsible to the grantee institution to which the awards are made. They must make a significant commitment of time and effort to the proposed research project, at least 50 percent, although for most applicants a larger commitment is encouraged.

Support:

Salary support can be provided from the award up to \$25,000 plus fringe benefits according to the time or effort devoted to the project. Direct costs may be requested for up to 3 years of support. The total requested must not exceed \$107,500 for the 3 year period; no more than \$37,500 may be requested in any one year.

For Further Information Contact:

National Institutes of Health  
Office of Grants Inquiries

Division of Research Grants  
Westwood Building, Room 449  
Bethesda, MD 20205

**National Institutes of Health  
National Research Service Awards: Individual  
Postdoctoral Fellowship**

No. FY85-384

Program:

This individual fellowship offers research health scientists, research clinicians, and others an opportunity to broaden their scientific background by providing full-time research training in areas that reflect the national need for biomedical and health-related research. Special consideration will be given to physicians who agree to undertake a minimum of 2 years of biomedical research.

Eligibility:

An applicant must be a United States citizen, noncitizen national, or have been lawfully admitted to the United States for permanent residence. An individual must have received a doctoral, or equivalent, degree as of the beginning date of the proposed fellowship, and must have arranged for appointment to an appropriate institution and acceptance by a sponsor, who will supervise the training and research experience.

Support:

Stipend levels range from \$14,040 to \$19,716 and are determined by the number of years of relevant postdoctoral experience at the time the award is made. Relevant experience may include research experience, teaching, internship, residency, or other time spent in full-time studies in a health-related field beyond that of the qualifying doctoral degree. An institutional allowance of up to \$3,000 to help defray awardee expenses may be requested by the sponsoring institution. Recipients of these awards must fulfill payment requirements for support in excess of 12 months.

For Further Information Contact:

National Institutes of Health  
Office of Grants Inquiries  
Division of Research Grants  
Westwood Building, Room 449  
Bethesda, MD 20205  
(301) 496-7441

**National Institutes of Health  
National Research Service Awards: Institutional  
Training Grant**

No. FY85-385

Program:

These grants are made to eligible institutions to develop or enhance research training

opportunities for individuals selected by them who are training for careers in specified areas of biomedical and behavioral research. Applicants will be accepted for predoctoral and/or postdoctoral training.

Eligibility:

Domestic nonprofit private or public institutions which have, or are able to develop, the staff and facilities required for the proposed research training are eligible. The training director at the institution will be responsible for the selection and appointment of trainees. Trainee applicants must be United States citizens, noncitizen nationals, or have been lawfully admitted to the United States for permanent residence. Postdoctoral fellows must have received a recognized doctoral degree as of the beginning date of the appointment.

Support:

Stipends range from \$14,040 to \$19,716 for postdoctoral fellows per year, depending upon relevant experience, and the predoctoral stipend level is \$5,292 per annum. Actual tuition and trainee travel may be requested. In addition, institutional costs of up to \$1,500 per predoctoral and up to \$2,500 per year per postdoctoral may be requested to defray costs of other training related expenses. Trainees are subject to payback obligation for each year of support in excess of 12 months.

For Further Information Contact:

National Institutes of Health  
Office of Grants Inquiries  
Division of Research Grants  
Westwood Building, Room 449  
Bethesda, MD 20205  
(301) 496-7441

**National Institutes of Health  
National Research Service Awards: Short-term  
Training for Students in Health Professional  
Schools**

No. FY85-386

Program:

The NIH supports an institutional training program designed to expose talented students in health professional schools, at an early stage in their development, to the opportunities inherent in a research career.

Eligibility:

Domestic nonprofit private or public schools of medicine, optometry, osteopathy, dentistry, veterinary medicine, pharmacy and public health with strong research programs may apply for grants to support short-term research training for periods of 2 to 3 months. The training institution will be responsible for the selection and appointment

of trainees who have successfully completed at least one semester prior to participating in the program. Individuals appointed must be U.S. citizens, noncitizen nationals, or have been lawfully admitted to the United States for permanent residence. Special attention should be given to the appointment of minority students and women.

Support:

Stipend support for trainees and institutional training related expenses is provided based on a monthly proration of that in effect for NRSA predoctoral trainees.

For Further Information Contact

National Institutes of Health  
Office of Grants Inquiries  
Division of Research Grants  
Westwood Building, Room 449  
Bethesda, MD 20205  
(301) 496-7441

**National Institutes of Health  
Research Career Development Award**

No. FY85-381

Program:

The purpose of the Research Career Development Award is to enhance the research capability of individuals in the formative stages of their careers who have demonstrated outstanding potential for contributing as independent investigators to health-related research but who are in positions which do not permit full-time research activities because of the commitment to other duties. The awards are available for persons whose research potential is readily apparent, but who need additional experience in a productive scientific environment conducive to the development of a fully independent research career. The award is not intended for untried investigators or for those already established as independent investigators.

Eligibility:

The applicant must be nominated by a non-Federal public or private nonprofit or for-profit institution engaged in health-related research and located in the United States or its possessions and territories. The individual must be a U.S. citizen, noncitizen national or permanent resident of the United States who has been awarded a doctoral degree and has at least 3 years of subsequent relevant research and/or professional experience prior to the requested beginning date of the award. An individual whose appointment with the organization already provides for essentially full-time research is not eligible for this award.

Support:

This award provides salary support for a 5-year period, but only up to a maximum base salary of \$40,000 for each budget period. In

addition to the base salary, fringe benefits may be requested on the part of the candidate's salary paid from the award. Funds will be provided for the reimbursement of indirect costs based on the actual indirect cost rate or 8 percent of the total allowable direct costs, whichever is less.

For Further Information Contact:

National Institutes of Health  
Office of Grants Inquiries  
Westwood Building, Room 449  
Bethesda, MD 20205  
(301) 496-7441

**National Institutes of Health  
Research Project Grant (Traditional)**

No. FY85-380

Program:

A Research Project Grant is generally awarded to an eligible institution on behalf of a principal investigator for a discrete, specified project related to the investigator's interest and competence. These grants, which make up the largest category of funding provided by the the National Institutes of Health, encourage and support health-related research in all areas within the scope of NIH's mission.

Eligibility:

Research Project Grants may be awarded to non-profit organizations and institutions, governments and their agencies, occasionally, though rarely, to individuals who have access to adequate facilities and resources for conducting the research, and to for-profit organizations. Foreign institutions and international organizations are also eligible to apply for these grants.

Support:

These grants may provide funds for reasonable costs of the activity, but current legislation requires cost sharing. While there is no precise limitation on the number or dollar value of research grants that may be awarded to any one institution or on behalf of any one investigator, the ability of a scientist to devote adequate time to the project, whether or not salary is requested, is a factor in the review of the application.

Research Project Grants provide funds for salaries, equipment, supplies, travel, and other related expenses. Detailed information must be provided to support such requests in an application.

For Further Information Contact:

National Institutes of Health  
Office of Grants Inquiries  
Division of Research Grants  
Westwood Building, Room 449  
Bethesda, MD 20205  
(301) 496-7441

**National Institutes of Health  
Small Grants Program**

No. FY85-382

Program:

Small Grants provide research support, specifically limited in time and amount, for activities such as pilot projects, testing of new techniques, or feasibility studies of innovative and high-risk research, which would provide a basis for more extended research. An attractive feature of this award is the accelerated cycle of receipt, review, and award of 4 to 5 months. At present, the Division of Research Resources (DRR), the National Eye Institute, the National Institute on Aging, and the National Institute of Dental Research make Small Grants awards.

Eligibility:

These one-time awards are open to both non-profit and for-profit organizations and are designed to support:

- Investigators changing areas of research.
- Investigators whose research careers were interrupted and are intended to be resumed.
- Established investigators needing quick support for a pilot project.
- Minority and women investigators and those located at institutions not traditionally associated with health research.
- Recently trained or less experienced investigators. (The exception is DRR, which has a New Investigators Research Award program for these investigators).

Support:

Applicants may request up to \$15,000 (direct costs) for supplies, travel, small items of equipment, and salary for technical personnel. Support is for 1 year.

For Further Information Contact:

National Institutes of Health  
Office of Grants Inquiries  
Division of Research Grants  
Westwood Building, Room 449  
Bethesda, MD 20205  
(301) 496-7441

**general**

**Erna and Victor Hasselblad Foundation  
Grants**

No. FY85-375

Program:

Approximately \$340,000 is available for annual distribution to further scientific education and research within the fields of natural

sciences and photography. The funds are intended to be concentrated on large projects, essential to the continued development within the fields mentioned. In principle, the medical discipline shall be ineligible. Eligibility is open to researchers of special merits of all nationalities.

Deadline:  
March 31, 1985

For Further Information Contact:

Erna and Victor Hasselblad Foundation  
S-405 04 Gothenburg  
Sweden

(From 1984 ARIS)

### Institute of International Education Cintas Fellowship Program

No. FY85-376

#### Program:

A number of fellowships of \$7,500 each are awarded yearly to professionals in the fields of architecture, painting, sculpture, print-making, music composition and literature to people of Cuban citizenship or lineage. The purpose of the fellowship is to foster professional development and recognition rather than academic or professional study or research. Applicants must have completed their academic and technical training.

Deadline:  
March 1, 1985

For Further Information Contact:

Institute of International Education  
809 United Nations Plaza  
New York, NY 10017  
(212) 883-8200 or  
Ms. Margaret Rolfe (212) 883-8455

(From 1984 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

#### English

Matthias, John E.  
J.E. Matthias. 1984. Rhododendron. P.N.  
Review 42:12.

O'Rourke, William A.  
W.A. O'Rourke. 1984. Review of J.  
Carroll's, Prince of Peace. Commonweal  
111(22):694-696.

#### Modern and Classical Languages

Welle, John P.  
J.P. Welle. 1984. Review of G. Caproni's,  
Tutte le poesie. World Literature Today  
58(4):585.

#### Music

Barbera, C. Andre  
C.A. Barbera. 1984. Placing Sectio  
Canonis in Historical and Philosophical  
Contexts. Journal of Hellenic Studies  
104:157-161.  
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Eleventh and the Expansion of the Musical  
Tetractys: A Study of Ancient Pytha-  
goreanism. Journal of Music Theory  
28:191-223.

#### Program of Liberal Studies

Youens, Susan L.  
S.L. Youens. 1984. Charlatans, Pedants  
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I. Pages 77-92 in, Studies in Music.  
University of Western Ontario, Canada.  
S.L. Youens. 1985. A Gradual Diminuendo:  
Debussy and the Trois Ballades de  
Francois Villon. Pages 69-100 in, D.  
Oliphant and T. Zigal, eds., Perspectives  
on Music: Essays on Collections at the  
Humanities Research Center. University  
of Texas at Austin, Austin, Texas.

### COLLEGE OF SCIENCE

#### Biology

Munstermann, Leonard E.  
B.G. Corsaro and L.E. Munstermann. 1984.  
Identification by Electrophoresis of  
Culex Adults (Diptera: Culicidae) in  
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#### Chemistry

Eigenbrot, Jr., Charles W.  
D.R. English, D.N. Hendrickson, K.S.  
Suslick, C.W. Eigenbrot, Jr. and W.R.  
Scheidt. 1984. Low-Spin Five-Coordinate  
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Tetrakis (4-methoxyphenyl) porphyrinato]  
-(hydrosulfido)iron (III). Journal of  
the American Chemical Society 106(23):  
7258-7529.  
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\*V. Nagarajan and R.W. Fessenden. 1984.  
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Physics Letters 112(3):207-211.

George, Manapurathu V.

\*B.A.R.C. Murty, C.V. Kumar, V. Dabral, P.K. Das and M.V. George. 1984. Photochemical Transformations and Laser Flash Photolysis Studies of 1,4- and 1,2-Epoxy Compounds Containing 1,2-Dibenzoylalkene Moieties. Journal of Organic Chemistry 49(22):4165-4171.

Kozak, John J.

\*P. Siders and J.J. Kozak. 1984. The Kirkwood Superposition Approximation for Hard Rods at High Pressure. Journal of Chemical Physics 81:4594-4602.

Scheidt, W. Robert

D.R. English, D.N. Hendrickson, K.S. Suslick, C.W. Eigenbrot, Jr. and W.R. Scheidt. 1984. Low-Spin Five-Coordinate Ferric Porphyrin Complex:[5,10,15,20-Tetrakis (4-methoxyphenyl) porphyrinato]-(hydrosulfido)iron (III). Journal of the American Chemical Society 106(23):7258-7529.

#### Earth Sciences

Gutschick, Raymond C.

C.A. Sandberg and R.C. Gutschick. 1984. Distribution, Microfauna, and Source-rock Potential of Mississippian Delle Phosphatic Member of Woodman Formation and Equivalents, Utah and Adjacent States. Pages 135-178 in, J. Woodward, F.F. Meissner and J.L. Clayton, eds., Hydrocarbon Source Rocks of the Greater Rocky Mountain Region, Rocky Mountain Association of Geologists, Denver, Colorado.

#### Physics

Bunker, Bruce A.

S.L. Hubert, B.A. Bunker, J.P. Stott and F.C. Brown. 1984. Copper  $L_{2,3}$  Near-Edge Structure in  $Cu_2O$ . Physical Review B 30:2120.

J.P. Stott, S.L. Hulbert, F.C. Brown, B.A. Bunker, T.C. Chiang and T. Miller. 1984. Core Excitons at the K Edge of LiF. Physical Review B 30:2163.

B.A. Bunker, S.L. Hulbert, J.P. Stott and F.C. Brown. 1984. Shallow-Deep Core-Exciton Instability at the Si  $L_{II, III}$  Edge in  $Si_xGe_{1-x}$  Alloys. Physical Review Letters 53:2157.

Jones, Gerald L.

G.L. Jones. 1984. Generalized Ornstein-Zernike Equation. Physical Review B 30:5279.

McGlinn, William D.

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Newman, Kathie E.

K.E. Newman and E.K. Riedel. 1984. Critical Exponents by the Scaling-Field Method: The Isotropic N-Vector Model in

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Three Dimensions. Physical Review B 30:6615-6638.

#### COLLEGE OF ENGINEERING

##### Civil Engineering

Jennings, Aaron A.

A.A. Jennings and D.J. Kirkner. 1984. Instantaneous Equilibrium Approximation Analysis. Journal of Hydraulic Engineering 110(12):1700-1717.

Kirkner, David J.

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##### Electrical Engineering

Michel, Anthony N.

A.N. Michel and V. Vittal. 1984. Power System Transient Stability Analysis: Lagrange Formulation. Proceedings of the 23rd IEEE Conference on Decision and Control, Las Vegas, Nevada. Pages 167-172.

R.K. Miller, A.N. Michel and G.S. Krenz. 1984. On Limit Cycles of Feedback Systems Which Contain a Hysteresis Nonlinearity. Proceedings of the 23rd IEEE Conference on Decision and Control, Las Vegas, Nevada. Pages 1306-1311.

Nwokah, O.D.I.

O.D.I. Nwokah. 1984. Synthesis of Controllers for Uncertain Multivariable Plants for Prescribed Time-Domain Tolerances. International Journal of Control 40(6):1189-1206.

#### COLLEGE OF BUSINESS ADMINISTRATION

##### Management

Chang, Yu-chi

Y.C. Chang. 1984. A Truncated Maximum Likelihood Estimator of a Constrained Bivariate Linear Regression Coefficient. Journal of the American Statistical Association 79:386.

Houck, John W.

J.W. Houck. 1984. Human Work and Employment Generation. Pages 23-35 in, J.W. Houck and O.F. Williams, CSC, eds., Catholic Social Teaching and the U.S. Economy: Working Papers for a Bishops' Pastoral. University Press of America, Washington, D.C.

J.W. Houck. 1984. The Poor and the Disadvantaged. Pages 139-151 in, J.W. Houck and O.F. Williams, CSC, eds., Catholic Social Teaching and the U.S. Economy: Working Papers for a Bishops' Pastoral. University Press of America, Washington, D.C.

Vecchio, Robert P.

R.P. Vecchio. 1984. Models of Psychological Inequity. Organizational Behavior and Human Performance 34:266-282.

- Williams, CSC, Oliver F.  
 O.F. Williams, CSC. 1984. Human Work and Employment Generation. Pages 23-35 in, J.W. Houck and O.F. Williams, CSC, eds., Catholic Social Teaching and the U.S. Economy: Working Papers for a Bishops' Pastoral. University Press of America, Washington, D.C.  
 O.F. Williams, CSC. 1984. The Poor and the Disadvantaged. Pages 139-151 in, J.W. Houck and O.F. Williams, CSC, eds., Catholic Social Teaching and the U.S. Economy: Working Papers for a Bishops' Pastoral. University Press of America, Washington, D.C.

Marketing Management

- Achrol, Ravi S.  
 P. Kotler and R.S. Achrol. 1984. Marketing Strategy and the Science of Warfare. Pages 94-133 in, R.E. Lamb, ed., Competitive Strategic Management, Prentice-Hall Inc., Englewood Cliffs, New Jersey.

LAW SCHOOL

- Fick, Barbara J.  
 B.J. Fick. 1984. An Analysis of NLRB v. Action Automotive, Inc. Preview of United States Supreme Court Cases 2:45-46.

RADIATION LABORATORY

- Das, Paritosh K.  
 C.V. Kumar, S.K. Chattopadhyay and P.K. Das. 1984. Geminate Electron Transfer

in Photogenerated Ion Pair, Mechanism of 1,4-Dicyanonaphthalene Sensitized Ylide Formation from Stilbene Oxides. Journal of the Chemical Society, Chemical Communications. Pages 1107-1109.

- B.A.R.C. Murty, C.V. Kumar, V. Dabral, P.K. Das and M.V. George. 1984. Photochemical Transformations and Laser Flash Photolysis Studies of 1,4- and 1,2-Epoxy Compounds Containing 1,2-Dibenzoylalkene Moieties. Journal of Organic Chemistry 49(22):4165-4171.

- H.F. Davis, P.K. Das, L.W. Reichel and G.W. Griffin. 1984. Electron-Transfer-Sensitized C-C Bond Cleavage. Facile Homolytic Fission via Geminate Back Electron Transfer in Photogenerated Ion Pairs. Journal of the American Chemical Society 106:6968.

- C.V. Kumar, S.K. Chattopadhyay and P.K. Das. 1984. Carbonyl Ylides Photogenerated from Isomeric Stilbene Oxides. Temperature Dependence of Decay Kinetics. Journal of Physical Chemistry 88:5639.

Ferraudi, Guillermo J.

- G.J. Ferraudi and M. Pacheco. 1984. The Influence of the Magnetic Field on the Photosubstitution Reaction of Coordination Complexes. Chemical Physics Letters 112(2):187-189.

- J.C. Scaiano, W.J. Leigh and G.J. Ferraudi. 1984. Flash Photolysis of Phenylacetatopentaminecobalt (III) in Aqueous Solution. Generation of Benzyl Radicals and their Reversible Trapping by Cupric Ions in Homogeneous and Micellar Solutions. Canadian Journal of Chemistry 62:2355.

Siders, Paul

- P. Siders and J.J. Kozak. 1984. The Kirkwood Superposition Approximation for Hard Rods at High Pressure. Journal of Chemical Physics 81:4594-4602.

## 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.

| Information Circular Number | Agency                                | Programs  | Application Closing Dates |
|-----------------------------|---------------------------------------|---|---------------------------|
| HUMANITIES                  |                                       |   |                           |
| FY85-378                    | National Endowment for the Humanities | Humanities, Science, and Technology: NEH Research Awards in Humanities, Science, and Technology | March 1, 1985             |
| FY85-377                    | National Endowment for the Humanities | Project Research  | March 1, 1985             |
| GENERAL                     |                                       |   |                           |
| FY85-375                    | Erna and Victor Hasselblad Foundation | Grants  | March 31, 1985            |
| FY85-376                    | Institute of International Education  | Cintas Fellowship Program   | March 1, 1985             |

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## **notre dame report**

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