

# notre dame report

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80-81

March 20, 1981

number 13

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# the university

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## special awards notice

At this time of year, nominations are sought for three special awards to be presented at the President's dinner in May. The awards are the Faculty Award, the Reinhold Niebuhr Award, and the Grenville Clark Award. Nominations are due by April 8. Details follow in the "Documentation" section of this issue.

## radiation research receives funding

The University of Notre Dame's Radiation Laboratory has received an award of \$2,497,000 from the U.S. Department of Energy (DOE) for the continuation of research activities in radiation chemistry and photochemistry.

Operated by the University since the late 1940's, the laboratory attracts chemists, physicists, biologists and engineers from around the world who use the facilities for basic research into the effects of radiation on matter. Many of the studies involve the use of radiation to produce unusual reactants involved in attempts to design future energy sources.

## freshman year of studies review

Six members of the Academic Council have been elected to constitute the Committee for the Review of the Dean of the Freshman Year of Studies.

They are the Committee Chairman, Rev. Thomas Blantz, C.S.C., associate professor and chairman of history; Mary Caiati, a senior in the College of Arts and Letters; John E. Derwent, associate professor of mathematics; Nicholas Fiore, professor and chairman of metallurgical engineering and materials science; Sonia Gernes, assistant professor of English; and Lee Tavis, Smith professor of business administration.

The University's Academic Manual mandates a five-year review of the dean of the Freshman Year.

Father Blantz said that members of the University community are invited to comment in writing on the stewardship of Dean Emil T. Hofman. Letters, which will be held in strictest confidence, should be addressed to Dean's Review Committee, c/o Father Blantz at the Department of History and should arrive on or before April 3.

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## geology field studies for minorities

University of Notre Dame endeavors to attract more minority students will be given a boost by grants of \$60,000 for encouraging black and Hispanic students in the study of geology.

The Department of Earth Sciences will choose 36 high school students from inner-city schools in the Chicago area to participate in a four-week study of geology at Montana State University in Bozeman, from June 28-July 30, according to Rev. Michael J. Murphy, C.S.C., chairman and associate professor of earth sciences.

The Atlantic Richfield Foundation has awarded \$25,000 to the program; another \$10,000 was granted by Conoco, and \$5,000 each from Mobil Oil, the Gulf Oil Foundation, Standard Oil of California, Standard Oil of Indiana and Texaco.

Only students of high ability (upper 10% of their class) and a proven interest and aptitude in science will be chosen for the program. They must have completed courses in biology and chemistry and at least

two years in mathematics. For further information, contact Brother David Fitzgerald, C.S.C., Dept. of Earth Sciences, Box 1020, University of Notre Dame, Notre Dame, IN 46556.

## summer research for undergraduates

Undergraduate students from various institutions may participate in individual chemistry research projects through the summer in the University of Notre Dame's Department of Chemistry and the Notre Dame Radiation Laboratory.

At least 10 students will be chosen for the 10-week program (June 1 to August 7) supported by the National Science Foundation. Student stipends are \$1,200 and on-campus students will be housed in University dormitories at no cost.

The research projects will be supervised by Notre Dame chemistry faculty members, who have worked previously with undergraduates on problems similar to those in the program. When appropriate and possible, the research project can continue after the formal end of the Notre Dame project at the student's home institution, using materials derived from the project.

Undergraduates in chemistry and related disciplines should normally have completed the three-year sequence of chemistry courses with a 3.0 average on a 4.0 scale, but all interested students should apply. Minority, women and physically handicapped students are especially encouraged to apply. Applications must be in to Prof. Maurice E. Schwartz, Department of Chemistry, University of Notre Dame, Notre Dame, IN, 46556 by April 20, 1981.

# faculty notes

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## appointments

J. D'Arcy Chisholm will serve as project consultant for the University of Notre Dame's Center for Pastoral and Social Ministry. The position is a new one, designed to provide financial and special projects consultation to the programs in the center. A West Coast businessman, Chisholm is volunteering his services for an unspecified period of time.

## honors

Stephen M. Batill, assistant professor of aerospace and mechanical engineering, is this year's recipient of the Dow Outstanding Young Faculty Award of the Illinois-Indiana section of the American Society for Engineering Education (ASEE). Dow Chemical U.S.A. presented Batill with a certificate and \$200 cash award during the ASEE section's annual meeting at the University of Evansville, Evansville, Ind., March 6.

Rev. Theodore M. Hesburgh, C.S.C., president of the University, received the distinguished service award of the National Association of Secondary School Principals in Atlanta, Ga., on Feb. 23.

Donald W. Kline, associate professor of psychology, has been asked by the National Aging Research Planning Panel of the National Institute on Aging to write the Vision Section of the National Research Plan on Aging.

Edward W. Krause, director of athletics, was honored as "Man of the Year" by the National Football Foundation and the Hall of Fame Golf Tournament at Palm Springs, Calif., on March 10.

Ray M. Powell, professor of accountancy, was nominated by the President of the American Accounting Association to serve as an American Accreditation Visitation Committee Member of the American Academy of Collegiate Schools of Business Accreditation Council.

Peggy Roach, assistant director of the Center for Pastoral and Social Ministry, has been named Mundelein College's distinguished alumnae for 1980-81. Roach will receive the award April 4 as part of Mundelein's 50th anniversary celebration.

Leonard M. Savoie, professor of accountancy, has been appointed a member of the Curriculum Committee of the International Accounting Section of the American Accounting Association for 1980-81.

Robert H. Schuler, professor of chemistry and director of the Radiation Laboratory, has been appointed as the U.S. regional editor for the journal Radiation Physics and Chemistry.

Kathleen J. Turner, assistant professor of communications and theatre, has been named to the editorial board of Communication Education and also to the Finance Committee of the Central States Speech Association.

## activities

Duncan Bell, research associate in the Radiation Laboratory, presented a paper entitled "Direct Continuous Observation of Light Dependent Changes in the Intravesicular pH of Bacteriorhodopsin Proteoliposomes" at the 25th Annual Meeting of the Biophysical Society, Denver, Colo., Feb. 23.

Jaime Bellalta, professor of architecture, presented the Annual Architectural Lecture, "Genetic Architecture of the Third World: Chile," at Andrews University, Berrien Springs, Mich., Feb. 28.

Eileen T. Bender, assistant professor of English, chaired a workshop on the Rockefeller Commission and Heritage Foundation Reports at the Home Grown Humanities Conference, Indianapolis, Ind., on March 14.

Harvey A. Bender, professor of biology, presented a lecture on "Genetics, Ethics and Law", at the Indiana University Nursing School, Indianapolis, Ind., on Feb. 26.

Frank J. Bonello, associate professor of economics, was a participant at the Management of Risk and Uncertainty in the Acquisition of Major Programs Workshop, co-sponsored by the U.S. Air Force and the University of Southern California, at the U.S. Air Force Academy, Colorado Springs, Feb. 8-11. He also co-authored with William I. Davisson and John G. Beverly a paper, "Economic and Financial Perspectives on Risk and Uncertainty in Aerospace Contracting," which was presented at the workshop.

David L. Cohn, associate professor of electrical engineering, presented a paper entitled "On the Information Rate of Quantized Speech" at the International Symposium on Information Theory in Santa Monica, Calif., Feb. 8-12.

George B. Craig, Jr., Clark professor of biology, delivered a paper entitled "Current advances in vector control, 1981," at the annual meeting of the Indiana Vector Control Association held in Indianapolis, Ind., March 1-3. Craig also serves on the Governing Board of the Indiana Vector Control Association.

Nancy L. D'Antuono, assistant professor of modern languages, presented an invited paper entitled "The Spanish *comedia* in Italy: Lope de Vega's *La discreta enamorada* and its *Commedia dell'Arte* counterpart," at the Louisiana Conference on Hispanic Languages and Literatures, Tulane University, New Orleans, La., Feb. 26-28.

James M. Daschbach, professor of aerospace and mechanical engineering, was invited by the National Defense University of Washington, D.C. to present two seminars for the Reserve Components National Security Course held in Pensacola, Fla., Feb. 11-13. They were titled "Introduction to Defense Analysis" and "Case Study Critique."

Vincent P. DeSantis, professor of history, gave an invited lecture on "The Self-Made Man and the Horatio Alger Tradition in the American Gilded Age, 1865-1900" at the American Studies Department, Indiana University, Bloomington, Ind., on March 5.

Sonia G. Gernes, assistant professor of English, read her story, "One Charm Remaining," at the Twentieth Century Literature Conference at the University of Louisville, Ken., on Feb. 28.

Animesh Ghoshal, assistant professor of finance and business economics, presented a paper, "Multinational Corporations, Technology Transfer, and Economic Development" at the annual meeting of the Midsouth Academy of Economists in Memphis, Tenn., on Feb. 6.

Stephen Hayes, assistant librarian, attended the American Library Association mid-winter meeting in Washington, D.C., and chaired a meeting on "Collection Development and Evaluation Policies for Government Publications", Feb. 1. He also spoke to the American Business Women's Association, Southold Chapter, South Bend, Ind., on Feb. 16.

Patrick Horsbrugh, professor of architecture, was invited to present the 1981 Whittemore Lecture at the School of Natural Resources, University of Michigan, Ann Arbor. The lecture, held on Feb. 19, was attended by students of landscape architecture and regional planning, architecture, members of the faculty and the local community.

Kenneth P. Jameson, associate professor of economics, gave the keynote address at a conference on "The U.S. Economy in the '80's" held in Eden, Mo. His topic was "Explaining the Current Economic Disorder." Other participants were: Dr. Harvey Weimuth, vice-president, Northwestern Mutual Life, and Dr. Michael Harrington, Democratic Socialist Organizing Committee, New York City. He presented a paper entitled "Which Supply Side Economics?" at the annual meeting of the American Institute of Mining, Metallurgical, and Petroleum Engineers in Chicago, Feb. 23. The panel was entitled "Recessionary Inflation" and included Joel Popkin, Washington, D.C., Allan Sinai, Data Resources, Incorporated, and Governor Nancy Teeters of the Board of Governors of the Federal Reserve System.

James M. Johnson, assistant professor of finance and business economics, addressed the Young Presidents' Organization on "The Effective Employment of Debt in a Volatile Economy." The conference was held at the Notre Dame Center for Continuing Education on Feb. 20-21. Johnson also conducted three workshops on "Marketing Financial Products" at the Captive Finance Company Conference sponsored by the American Association of Equipment Lessors in Houston, Tex., on Feb. 25-26.

Lloyd H. Ketchum, Jr., associate professor of civil engineering, presented a seminar titled "A Report on Environmental Health Engineering Research Activities at Notre Dame," at Michigan State University, East Lansing, on Feb. 24. He also attended the conference "Vegetation Management for Municipal Wastewater Land Application Systems: Great Lakes Region of the U.S.," at Michigan State University on Feb. 23 and 24.

John Matthias, professor of English, and Douglas Kinsey, associate professor of art, gave a reading, slide show, and exhibition from their collaborative book, Bathory & Lermontov, in the Snite Museum Auditorium, Feb. 18.

Rev. Michael D. McCafferty, C.S.C., assistant professor and assistant dean of the law school, made a presentation entitled "The Ethics of Corporate Conduct" to the Indiana Chapter of the Young Presidents' Organization at its seminar on "Closely Held Businesses in Today's World" held at Notre Dame, Feb. 19-22.

Ralph McInerny, director of the Medieval Institute and the Maritain Center, Grace professor of Medieval Studies, gave the Aquinas Lecture at Marquette University, on Feb. 22. The title of the lecture was "Rhyme and Reason: St. Thomas and Modes of Discourse."

Robert P. McIntosh, professor of biology, presented the C.E. Bessey Memorial Lecture on "Ecological Theory and Succession," at Iowa State University, Ames, Iowa, March 19.

James L. Melsa, chairman and professor of electrical engineering, gave an invited lecture entitled "Medi-umband Speech Encoding using Time Domain Harmonic

Scaling and Adaptive Residual Coding" to the Department of Electrical Engineering at the University of Minnesota, Minneapolis, on Jan. 27. He also gave an invited lecture titled "Digital Transmission of Speech: Talking Bit-by-Bit", to the Michiana Section of the Institute of Electrical and Electronic Engineers at the University of Notre Dame on Feb. 18.

Kenneth F. Ripple, professor of law, presented the following research reports to the Advisory Committee on the Federal Appellate Rules of the Judicial Conference of the United States: "Changes in the Federal Rules of Appellate Procedure Indicated by the Bankruptcy Reform Act of 1978"; "FRAP Changes Required by the Federal Magistrate Act of 1979," Washington, D.C., on Dec. 5.

Leonard M. Savoie, professor of accountancy, conducted a seminar on corporate annual reports for management and marketing personnel of Moesberg & Company, Inc., South Bend, on Feb. 27.

Seymour I. Schlager, associate professor of microbiology, presented an update on current trends and findings in cancer research to the meeting of the Indiana Division of the American Cancer Society in Indianapolis, Ind., Feb. 28.

Herbert E. Sim, chairman and professor of finance and business economics, conducted a seminar for local government officials under the sponsorship of the Indiana Academy in the Public Service, in Merrillville, Ind., on Feb. 21. The topic of the seminar was "Local Government Accounting Fundamentals."

Robert L. Wilken, professor of theology, was awarded an NEH (National Endowment for the Humanities) fellowship for independent study and research for the academic year 1981-82. The project is entitled "History of Christianity in Palestine during the Byzantine Period."

James L. Wittenback, Peat, Marwick, Mitchell associate professor of accountancy, presented a talk entitled "Tax Planning for the Family-Owned Business and Its Owners" to the Indiana Chapter Young Presidents' Organization at the Notre Dame Center for Continuing Education on Feb. 21.

# documen- tation

## special university awards recommendations

Nominations for the three special awards described below are to be sent, together with reasons for the nomination, to Katherine Tillman, Assistant Provost, by Wednesday, April 8 to be forwarded to the selection committees. Award winners will be honored at the President's Dinner in May.

### Faculty Award

Established in the 1927-28 academic year by the Alumni Association, the Faculty Award singles out that faculty member who, in the opinion of his or her colleagues, has contributed outstanding service to the University of Notre Dame. Each year a selection committee, composed of prior winners and representing the Colleges and the Law School, studies the recommendations submitted by former recipients of this award, by the deans, and by individual faculty members.

#### Faculty Award Winners Since 1960

1959-60 Otto Bird	1969-70 James Massey
1960-61 John Frederick	1970-71 Thomas Stritch
1961-62 Milton Burton	1971-72 Ernest Sandeen
1962-63 Stephen Kertesz	1972-73 Rev. Ernan McMullin
1963-64 Raymond Gutschick	1973-74 Robert E. Rodes, Jr.
1964-65 Matthew Fitzsimons	1974-75 Herbert E. Sim
1965-66 Bernard D. Cullity	1975-76 Ronald Weber
1966-67 John Magee	1976-77 Walter Miller
1967-68 Rev. Charles E. Sheedy, C.S.C.	1977-78 J. Philip Gleason
1968-69 Bernard Waldman	1978-79 K. T. Yang
	1979-80 Frederick J. Crosson

### Reinhold Niebuhr Award

Rev. Theodore M. Hesburgh, C.S.C. and Chancellor Willy Brandt were the first recipients of Reinhold Niebuhr awards sponsored by friends of the Protestant theologian and author. Receiving this award in September 1972 at ceremonies at Union Theological Seminary in New York City, Father Hesburgh announced the establishment of a Reinhold Niebuhr award at the University of Notre Dame. This award is made annually to a student, faculty member, or administrator whose life or writings promote or exemplify the lifelong theological and philosophical concerns of Reinhold Niebuhr, particularly in the area of social justice in modern life. The initial award to Father Hesburgh was \$5,000. This he turned over to the Notre Dame endowment to underwrite an annual cash award of \$250 for the winner of this campus honor. Msgr. John J. Egan was the first recipient of the Reinhold Niebuhr award given at the President's Dinner in May 1973. Other winners have been CILA (Community for the International Lay Apostolate), 1974; George N. Shuster, 1975; Rev. Louis Putz, C.S.C., 1976; Mr. and Mrs. Arthur Quigley, 1977; Thomas P. Broden, 1978; Rev. William Toohey, C.S.C., 1979; Rev. Don McNeill, C.S.C., 1980. The selection committee includes representatives from the Colleges and Law School, Campus Ministry, Rectors, Ladies of Notre Dame and the Student Body. All members of the Notre Dame community are invited to submit recommendations for this award.

## Grenville Clark Award

On Oct. 20, 1978, Father Hesburgh was one of three recipients of the Grenville Clark Prize, an award given every three years by the Grenville Clark Fund at Dartmouth College. Following the procedure established when he won the Reinhold Niebuhr award in 1972, Father Hesburgh donated the \$5,000 Clark stipend to the Notre Dame endowment to underwrite a cash prize of \$250 to be awarded each year. This award is made to a faculty member, administrator or student whose voluntary activities serve to advance the causes of peace and human rights to which Grenville Clark devoted his extraordinary life of public service. The 1979 first winner of this award was Peter Walshe; the 1980 co-winners were Mary Ann Roemer and James Roemer. The selection committee includes representatives from the Colleges and Law School, Campus Ministry, Rectors, Ladies of Notre Dame and the Student Body. All members of the Notre Dame community are invited to submit recommendations for this award.

## summary annual report for blue cross-blue shield

This is a summary of the annual report of the Mutual Medical Insurance plan for employer number 35-0868188 pertaining to group hospitalization insurance for the plan year ending June 30, 1980. The annual report has been filed with the Internal Revenue Service, as required under the Employee Retirement Income Security Act of 1974 (ERISA).

### Insurance Information

The plan has a contract with Blue Cross - Blue Shield of Indiana to pay certain hospital/surgical claims incurred under the terms of the plan. Because it is a so-called "experience-rated" contract, the premium costs are affected by, among other things, the number and size of claims. Of the total insurance premiums paid for the plan year ending June 30, 1980, the premiums paid under such "experience-rated" contracts were \$1,466,457 and the total of all benefit claims paid under the experience-rated contract during the plan year was \$955,373.

Additional expenses included \$95,219 of claim reserves and \$98,546 in other expenses.

### Your Rights to Additional Information

You have the right to receive a copy of the full annual report, or any part thereof, on request. To obtain a copy of the full annual report, or any part thereof, write or call the office of the plan administrator: G. Thomas Bull, Director of Personnel, University of Notre Dame, Notre Dame, IN 46556 - telephone 283-2221.

You have the right to receive from the plan administrator, on request and at no charge, a statement of the assets and liabilities of the plan and accompanying notes, or a statement of income and expenses of the plan and accompanying notes, or both. If you request a copy of the full annual report from the plan administrator, these two statements and accompanying notes will be included as part of that report.

You also have the legally protected right to examine the annual report at the main office of the plan, the Personnel Office, Notre Dame, IN, and at the U.S. Department of Labor in Washington, D.C., or to obtain a copy from the U.S. Department of Labor upon payment of copying costs. Requests to the Department should be addressed to Public Disclosure Room, N4677, Pension and Welfare Benefit Programs, U.S. Department of Labor, 200 Constitution Avenue, N.W., Washington, D.C. 20216.

## faculty committee for university libraries minutes february 9, 1981

Present: Harvey A. Bender, Vincent P. DeSantis, Gerald L. Jones, Lloyd R. Ketchum, Jr., John R. Malone (chairperson), Robert C. Miller, James E. Robinson.

The minutes of the January 12, 1981 meeting (with attachment) were approved for publication.

Miller announced that the periodic letters to carrel holders who have not used their carrels have been mailed. It has been suggested that the minimum usage rate for the retention of



carrels be increased; Miller will prepare a formal statement for the next meeting. A suggestion was made to ban typing in carrels. However, the Committee members feel that carrels are intended for study, research, typing, etc., and that a request could be made that the door be closed when a person is typing in order to lessen the noise.

Miller also commented briefly on the Title II-C application which will be submitted in mid-March to fund the processing of the Anastos Collection.

It was announced that indirect data base charges will continue to be absorbed by the Libraries. It was agreed that efforts should be made to increase the awareness of this service among all departments.

For 1981-82 the Libraries are getting the 18% increase requested for library acquisitions. The Development Office has reported that the Libraries will be a major target of fund-raising for the next year. It is anticipated that Drs. Frick and Gordon will join the March meeting of the Committee for further discussion.

During a discussion of the ARL statistics, it was agreed that these statistics are a gauge of quantity, not necessarily quality, of a library collection, although there may be some correlation between the two. There was also a general feeling that comparisons with a more limited peer group, rather than ARL membership as a whole, would be more appropriate. Malone will pursue the possibility of further correlations.

The meeting adjourned at 5:30 p.m. The next meeting is scheduled for Monday, March 2nd, at 4:00 p.m.

## minutes of the 197th graduate council meeting january 20, 1981

Approved at the 198th Graduate Council Meeting on March 3, 1981.

The meeting began at 3:30 p.m. All members were present except Dean Joseph C. Hogan (excused), Prof. David L. Cohn (excused), Prof. Andrew J. Weigert, and Mr. Michael Tkacz (excused).

### I. MINUTES OF THE 196th MEETING

The minutes of the 196th meeting were approved with one emendation. The last sentence in Section IV will read: "Following this discussion, a motion by voice vote to recommend the new program for approval was carried."

### II. DISSEMINATION OF MASTER'S THESES THROUGH UNIVERSITY MICROFILMS INTERNATIONAL (UMI)

The chairman opened with some remarks on the Graduate School requirements regarding master's theses. He invited Mr. Robert C. Miller, who had recommended this topic for discussion, to speak. Mr. Miller had brought copies of a letter from the University Microfilms International (UMI) for distribution. This letter describes UMI services related to master's theses, including thesis microfilming, abstract publication in Masters Abstracts and optional copyright registration.

Mr. Miller noted that although most research universities participate in the UMI Dissertations Program, few of them have so far availed themselves of the UMI master's publishing services. The Council discussed the advisability of requiring the microfilming of master's theses. While most members, in principle, would agree that the results of research should be made accessible to scholars, some thought it unnecessary to require the microfilming of every master's thesis. After some exchange of views, the general feeling of the Council was that Graduate School should make available to departments all pertinent and up-to-date information concerning the UMI Master's Publishing Program and that the microfilming decision in individual cases should be left to the respective advisors and students.

### III. FUNCTION OF THE GRADUATE STUDENT DISSERTATION COMMITTEE

The chairman referred the Council to pages 28-29 of the Graduate School Bulletin (1980-81 edition), copies of which had been distributed at the beginning of the meeting. He pointed out that this document describes three groups concerned with dissertation approval: the graduate faculty committee which initially considers the dissertation proposal, the official

readers, and the defense board. In some cases, problems may arise from the fact that the people who approve the proposal are not the same as those who later read the completed dissertation. He noted that where a faculty committee was established for each dissertation to interact from "prelim to completion", many of the problems engendered from the use of different groups at each stage disappear.

Dr. Charles W. Allen, who had suggested this topic for discussion, was then invited to speak. Dr. Allen cited the case of an examination he had chaired earlier this year. In this case, the student's oral candidacy examination board was aware of what was proposed but had no input until the reading of the dissertation. Contrary to the guidelines in the Graduate School Bulletin, this dissertation was approved for defense, although the readers had some reservations about it. At the examination, it was clear that the dissertation was not ready for defense and Dr. Allen, as chairman of the examination board, had to take the unusual step of postponing the voting and the student was requested to revise his dissertation for defense at a later date. As Dr. Allen pointed out, there were several things that had gone wrong in this case, one of which was the fact that the student's dissertation committee had had no part in overseeing the general development of the dissertation. Following Dr. Allen's presentation, the chairman turned to other Council members and asked how various departments handle this matter. The Council was informed that in some departments, the same group of people are responsible both for the approval of the dissertation proposal and for reading the completed dissertation, but that this is not the case in other departments. Again, in a number of departments, the student's dissertation director is the only faculty member to advise and guide him/her until the completion of the dissertation; in other departments, the student's committee shares this responsibility with the director; there are also departments which require periodic progress reports through workshops or presentations to the entire department. Most people, however, reported that they had not encountered any problem with their present systems. As it appeared, a variety of practices, which have originated from a diversity of disciplines and traditions, exist in the Graduate School and it was felt that no uniform system needs to be instituted for all departments. On the other hand, several members felt that checkpoints of some kind concerning the student's progress would be helpful in many cases. There was a general consensus that there should be overlap in membership between the committee approving the dissertation proposal and those who read the completed dissertation.

The Council also discussed the requirement concerning reader approval of the dissertation, as it is described in the current Graduate School Bulletin (1980-81): "Only a dissertation unanimously and unconditionally approved by the three readers may be defended" (page 28). Some members believed that the requirement of unanimity effectively removes the possibility of "legitimate disagreement." Other members defended this requirement, arguing that without it final defenses could turn into long-drawn arguments between diverging views. The requirement that reader approval be "unconditional" was also discussed. This word, in the opinion of some members, is misleading -- one member pointing to the apparent contradiction between this requirement and a later statement in the Bulletin that revision of the dissertation may be required at the time of the final defense. Advantages of this "unconditional" requirement were also brought out, namely that it makes the reader do his/her job more carefully, and that the student will have a chance to revise his/her dissertation prior to the final examination, in case a reader discovers some weaknesses in it. One may conclude from this discussion that the present wording of the Bulletin should be allowed to stand unchanged.

#### IV. CHAIRMAN'S REMARKS

The chairman informed the Council that the terms of office of these three elected members would come to completion on June 30, 1981:

Prof. Charles W. Allen	Metallurgy
Prof. Frank Bonello	Economics
Prof. Nathan Orr Hatch	History

The chairman has asked Prof. Michael J. Crowe, Prof. Paul G. Banikiotes and Prof. Frank Bonello to serve on the nominating committee. Prof. Crowe will be Committee Chairman. The committee will construct a slate consisting of a minimum of two candidates for each of the three vacant positions, respectively in the divisions of Engineering, Social Sciences and Humanities. The nominees to be selected should be active scholars and participants in the graduate programs of their respective divisions. This committee will report to the Graduate Council at the next meeting (March 3). The election will be held later in March and the results announced at the April meeting.

The chairman reported that he had completed the survey of doctoral programs at Notre Dame as requested by the Committee on the Study of Research-Doctorate Programs in the U.S.

Seventeen doctoral programs have been included, namely: English, Philosophy, Economics, History, Political Science, Psychology, Sociology; Biochemistry, Microbiology, Zoology; Chemistry, Mathematics, Physics; Chemical Engineering, Civil Engineering, Electrical Engineering and Mechanical Engineering. For each program, we have supplied the name of the department, the number of Ph.D.s awarded in the last five years, the full-time and part-time enrollment of last Fall, the year in which the program was initiated, the names of faculty (who participate "significantly" in the program), and the names of faculty nominated for the evaluation of programs in other institutions. The chairman added that the productivity of a program would be measured in terms of its size and that this consideration could be favorable to small programs.

The chairman provided these enrollment figures for Fall 1980:

	<u>Master's Program</u>	<u>Doctorate</u>
Humanities	146	224
Social Sciences	37	202
Science	14	169
Engineering	104	45
MSA	12	-
Total	313	640

He informed the Council that the number of applications has increased to date. By January 15 this year, we received 20% more applications than this time last year. The number of acceptances and confirmations has also gone up.

The chairman announced that a full-time director of graduate admissions would be appointed in June this year. Council members were urged to remind their departments that the deadline for application to the Faculty Research Fund, as announced in the Notre Dame Report 80-81, number 7 (December 12, 1980) would be February 2.

The meeting was adjourned at 5 p.m.

Chau T. M. Le  
Secretary

# advanced studies

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## notes for principal investigators

National Institute of Health  
National Institute of Environmental Health  
Sciences

The National Institute of Environmental Health Sciences (NIEHS) conducts and supports research that will contribute to a better understanding and ultimately to the prevention of environmentally induced diseases and disorders. This research is conducted in laboratories in Research Triangle Park, North Carolina, in a satellite laboratory at the CV Whitney Marine Laboratory at the University of Florida-Marineland, Gainesville, Florida, in a seasonal laboratory at Mount Desert Island, Salsbury Cove, Maine and at other institutions through the support of extramural research and research training in environmental health sciences. NIEHS fosters basic and applied research on:

- how and where potentially harmful environmental agents are released into the environment;
- how these agents move and possibly change as they move through the environment;
- the extent of exposure of various population groups, especially populations sensitive to these agents;
- what effects these agents cause by themselves and in combination with other agents in the environment;
- what happens in biological systems after exposure to hazardous agents; and
- what diseases are caused by these agents.

The institute also supports efforts to identify hazardous environmental agents before they are released into the environment. Such work includes development, testing and validation of biological test systems to predict the toxicity in man occurring from exposure to environmental factors.

## information circulars

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

- Extension 4487, for information on federal government programs
- Extension 7433, for information on private foundations, corporations and state agencies.

### International Communication Agency Cultural Presentations Program

No. FY81-530

#### Program:

While the USICA does not fund performing arts tours as a rule it does provide some financial assistance to highly qualified individuals or groups planning private tours abroad if the funding will enable them to extend their tours into areas they would not ordinarily reach under commercial auspices. Such individuals or groups must have been evaluated by agency artistic advisors who are professional artists from the private sector. Funding is not offered to artists touring only one country or only those countries where many American artists appear. Nor is funding available to groups or individuals below the college level. In addition to funding, the USICA will supply American embassies abroad with the itineraries of artists planning private tours

as long as the artists have received favorable evaluation. Embassies can sometimes arrange additional performances either directly or through local booking agencies.

Deadline:  
April 15, 1981.

For Further Information, Contact:

International Communication Agency  
Cultural Presentations Division  
Room 638  
1776 Pennsylvania Avenue  
Washington, D.C. 20547  
(202) 724-9702

(From 1981 ARIS)

**National Endowment for the Arts  
Music Program—Jazz**

No. FY81-531

Program:

- Organization and Ensembles - Matching grants of up to \$25,000 to help nonprofit, tax-exempt organizations offer jazz concerts, educational programs, workshops and clinics, residencies by jazz specialists, festivals or tours. A small number of grants will be awarded to help such organizations hire professional management personnel, administrative staff or management consultants in areas such as audience development or fund raising. Applicants must show that such positions are new or previously unpaid and that they can be supported in the future without help from the endowment.

- Special Projects - Grants of varying amounts to cover projects that do not fit into any of the categories listed above. Such projects, which may be proposed by individuals or organizations must support professional jazz activity. Services to the field are included in this category.

Deadline:  
May 12, 1981.

For Further Information, Contact:

National Endowment for the Arts  
Music Program  
Program Information Office  
2401 E Street, N.W.  
Washington, D.C. 20506  
(202) 634-6020

(From 1981 ARIS)

**American Institute of Architects  
AIA Minority Disadvantaged Scholarship Program**

No. FY81-532

Program:

Scholarships of amounts which vary according to individual need to enable members of disadvantaged minority groups to begin professional architectural studies. Students who have completed high school or who are enrolled in a junior college, technical school or first-year professional degree program are eligible. All students must be nominated by an individual architect or firm, an AIA component, community design center, a guidance counselor, dean or head of an accredited school of architecture or the director of a community or civic organization. Nominations will be screened and application materials forwarded to qualified nominees.

Deadline:  
April 15, 1981.

For Further Information, Contact:

American Institute of Architects  
Director, Education Program  
1735 New York Avenue, N.W.  
Washington, D.C. 20006  
(202) 785-7350

(From 1981 ARIS)

**American Musicological Society  
Alfred Einstein Award**

No. FY81-533

Program:

One award of \$400 to the scholar under the age of 36 who has written the most significant article on a musicological subject during the preceding calendar year. Applicants must be U.S. citizens and have received the Ph.D. no more than five years ago.

Deadline:

May 1, 1981.

For Further Information, Contact:

American Musicological Society  
David Johnson  
201 South 34th Street  
Philadelphia, Pa. 19104

(From 1981 ARIS)

**American Musicological Society  
Otto Kinkeldey Award**

No. FY81-534

Program:

One award of \$400 is given each year to the most distinguished work of musicological scholarship to have been published in the past year. Publication may have been in any language and in any country, but applicants must be citizens or permanent residents of the U.S.

Deadline:

May 1, 1981.

For Further Information, Contact:

American Musicological Society  
David Johnson  
201 South 34th Street  
Philadelphia, Pa. 19104

(From 1981 ARIS)

**Austro-American Association of Boston  
Scholarships**

No. FY81-535

Program:

Several grants of up to \$600 per year to support a project relating to Austrian literature, music, art, history or culture in general. The grant may be

used for travel to Europe or within the U.S. for the purchase of books or other materials or for the support of publication. Candidates need not be working for a degree but must demonstrate a capacity for scholarly or creative work.

Deadline:

April 16, 1981.

For Further Information, Contact:

The Francis Bacon Foundation, Inc.  
Elizabeth S. Wrigley, President  
655 North Dartmouth Avenue  
Claremont, Calif. 91711  
(714) 624-6305

(From 1981 ARIS)

**The Brooklyn Museum Art School  
Max Beckmann Memorial Scholarships**

No. FY81-536

Program:

Grants covering full tuition and registration fees (but not living costs or fees for materials) for one year's graduate level work in painting, drawing or sculpture at the art school. The program also includes lectures given by prominent artists and regular contact with the museum and gallery world of New York City. The scholarships are open to nationals of any country who are fluent in English and are intended mainly for college art majors and professional art school students completing their undergraduate studies.

Deadline:

April 30, 1981.

For Further Information, Contact:

The Brooklyn Museum of Art School  
Marjorie Stephens, Registrar  
188 Eastern Parkway  
Brooklyn, N.Y. 11238  
(212) 638-4486

(From 1981 ARIS)

**History of Science Society  
Pfizer Award**

No. FY81-537

Program:

\$1,000 prize for the best book or article in the field of the history of science written by an American or Canadian scholar in the preceding year. The award committee favors works by younger scholars, but overall quality is the decisive criterion.

Deadline:

May 1, 1981.

For Further Information, Contact:

History of Science Society  
Professor Sally G. Kohlstedt, Secretary  
Department of History

Syracuse University  
Syracuse, N.Y. 13210  
(315) 423-2210

(From 1981 ARIS)

### **International Research and Exchange Board Special Grants for Collaborative Activities and New Exchanges**

No. FY81-538

Program:

Grants up to \$10,000 in support of specific collaborative projects and new exchanges. Such undertakings as bilateral and multinational symposia, collaborative and parallel research, joint publications, exchanges of data, comparative surveys and brief visits necessary in the planning of such projects will be considered. Awards are to encourage the development of individual and institutional collaboration and exchange in the social sciences and humanities involving scholars from the U.S. and from one or more of the exchange countries, as well as Albania and Mongolia. Grants are not available to support individual study, research or attendance at scheduled scholarly conferences and meetings.

Deadline:

April 30, 1981.

For Further Information, Contact:

International Research and Exchange Board  
655 Third Avenue  
New York, N.Y. 10017  
(212) 490-2002

(From 1981 ARIS)

### **International Research and Exchange Board Travel Grants for Senior Scholars**

No. FY81-539

Program:

Travel grants to facilitate communication between prominent American scholars in the social sciences and humanities and their colleagues in the countries with which IREX conducts exchanges, as well as in Albania and Mongolia. Preference will normally be given to scholars outside the field of Soviet and East European studies. Applicants must have received a formal invitation from an appropriate institution in one of these countries, such as the Academy of Sciences or one of its institutes for the purposes of consultation, lecturing, etc. Grants to American applicants will consist of round-trip economy air transportation only and are intended for support of short visits, normally less than two months and are not intended for individual research. There are no application forms for this program. Applicants are requested to submit a letter to the executive director indicating the general purpose of the proposed visit and to include a copy of the formal invitation to the scholar, other relevant correspondence and a curriculum vitae.

Deadline:

April 30, 1981.

For Further Information, Contact:

International Research and Exchange Board  
655 Third Avenue  
New York, N.Y. 10017  
(212) 490-2002

(From 1981 ARIS)

### **The Paris Review The Aga Khan Prize for Fiction**

No. FY81-540

Program:

\$500 award for the author submitting the best short story in English during the course of the year. Submit manuscript and a self-addressed, stamped envelope to the accompanying address.

Deadline:

April 30, 1981.

For Further Information, Contact:

The Paris Review  
Editorial Office  
541 E. 72nd Street  
New York, N.Y. 10021  
(212) 862-0016

(From 1981 ARIS)

### **Quarterly Review of Literature Poetry Collections**

No. FY81-541

Program:

The Quarterly Review will award prizes of \$500 plus publication to individual poetry collections which range from 40 to 70 pages. The review intends to publish four or five such collections in each of two issues a year. Translations and verse plays are also eligible for submission.

NOTE: Manuscript submissions must be accompanied by a subscription to the Quarterly Review of Literature series.

Deadline:

May 1981.

For Further Information, Contact:

Quarterly Review of Literature  
Theodore and Renee Weiss, Editors  
26 Haslet Avenue  
Princeton, N.J. 08540

(From 1981 ARIS)

### **San Francisco Conservatory Performance Scholarships in Music**

No. FY81-542

Program:

Approximately 100 scholarships for talented students

with financial need to attend the conservatory as full-time enrollees. Awards range from \$300 to full tuition. Awards average \$2,000 annually and are renewable.

Deadline:  
May 15, 1981.

For Further Information, Contact:

San Francisco Conservatory  
Office of Student Services  
1201 Ortega Street  
San Francisco, Calif. 94122  
(415) 564-8086

(From 1981 ARIS)

### **United Daughters of the Confederacy Mrs. Simon Baruch University Award**

No. FY81-543

Program:

One award of \$1,500 to aid in defraying the costs of publication of an unpublished book or monograph in the field of southern history relating to the period of the confederacy or bearing upon the causes of the secession and Civil War. Individuals may apply for a period of up to fifteen years after their graduation with a higher degree from a college or university in the United States; current graduate students whose theses have been accepted by their institutions are also eligible to apply.

Deadline:  
May 1, 1981.

For Further Information, Contact:

United Daughters of the Confederacy  
328 North Boulevard  
Richmond, Va. 23220  
(804) 355-1636

(From 1981 ARIS)

### **Department of Commerce Unsolicited Research Proposals**

No. FY81-544

Program:

Grants to professors and their students (MA or Ph.D. candidates) affiliated with a university. The NSSL research is aimed at studies of severe storm circulation and dynamics; development of storm sensing capability, especially Doppler radar for precipitation and wind measurement; specialized antennas for storm electricity; improvement of thunderstorm forecasts and warnings through union of conceptual, numerical and laboratory models of weather phenomena. The NSSL operates five primary program areas: 1) Meteorological Research: to improve thunderstorm forecasts and warnings by improved conceptual, numerical and laboratory models of major phenomena through synthesis of theory and observations; 2)

Advanced Techniques; a) Doppler Radar: to develop new radar techniques to acquire data from severe storms and storm environment; b) Storm Electricity: to measure electric fields in and around thunderstorms, to map lightning channels and to examine the distribution and development of electrical activity; 3) Operations and Technology Transfer: to study the use of operational radar in the NWS and FAA, and to identify, measure and track thunderstorms that produce flash floods, dangerous turbulence, damaging winds and tornadoes; 4) Develop techniques and hardware in support of laboratory programs, to maintain existing systems and to assist in data acquisitions and data quality control.

Deadline:  
None.

For Further Information, Contact:

Department of Commerce  
National Oceanic and Atmospheric Administration  
Office of Research and Development  
National Severe Storms Laboratory  
1313 Halley Circle  
Norman, OK 73069  
Edwin Kessler, Director  
(405) 360-3620

(From 1981 ARIS)

### **National Center for Health Services Research Dissertation Research Support Grants**

No. FY81-545

Program:

Grants up to \$20,000 for research projects undertaken in conjunction with the preparation of a dissertation. Eligible students must: 1) be enrolled in a Ph.D. program in the social, medical, management or health sciences; 2) intend to conduct or are conducting dissertation research on the organization, delivery, financing or quality of health care services; and 3) have completed all the requirements for the degree other than the dissertation. Grants are usually made for 12 months or less.

Deadline:  
April 1, 1981.

For Further Information, Contact:

National Center for Health Services Research  
Chief, Grants Review Branch (Dissertations)  
Center Building, Room 7-50A  
3700 East-West Highway  
Hyattsville, Md. 20782  
(301) 426-6920

(From 1981 ARIS)

### **National Endowment for the Humanities Higher Education Grants/Individual Institutions**

No. FY81-546

Program:

Pilot Grants: Grants to enable an institution to test



a new set of humanities courses before making a substantial commitment to the program. Applicants should have completed the initial stages of planning and have developed a tentative but concrete proposal addressed to the needs of their humanities curriculum. Pilot grants support such activities as workshops to enable faculty to complete the planning of course content, the pilot teaching of new courses and evaluation of such courses by consultants.

Deadline:  
April 1, 1981.

For Further Information, Contact:

National Endowment for the Humanities  
806 15th Street NW  
Washington, D.C. 20506  
Pilot Grants  
James Jones  
(202) 724-0393

(From 1981 ARIS)

**National Research Council  
NRC-NASA Program: Postdoctoral Awards**

No. FY81-547

Program:  
NRC offers awards for basic and applied research at NASA laboratories throughout the U.S. in various fields of chemistry, engineering, mathematics, physics and in the atmospheric and earth, environmental, life, space, biological, medical and behavioral sciences. Stipends begin at \$20,500 per year for recent doctoral graduates with higher stipends for seniors with at least five years of postdoctoral experience. For detailed information on the available programs, contact NRC.

Deadline:  
April 15, 1981.

For Further Information, Contact:

National Research Council  
Associateship Office (JH 610-P)  
2101 Constitution Avenue NW  
Washington, D.C. 20418  
(202) 389-6554

(From 1981 ARIS)

**American Association of Law Libraries  
Scholarships**

No. FY81-548

Program:  
Four separate scholarships are given, one in each of the following categories: 1) an award to an individual holding a law degree who is a degree candidate in an accredited library school; 2) an award to a library school graduate with law library experience who has completed two years of law school; 3) an award to a college graduate with law library experience who is a degree candidate in an accredited library school;

4) an award for a registrant in a special program for the study of law librarianship in an accredited library school. All applicants must be prospective law librarians.

Deadline:  
April 1, 1981.

For Further Information, Contact:

American Association of Law Libraries  
AALL Scholarship Committee  
53 West Jackson Boulevard  
Chicago, IL 60604  
(312) 939-4764

(From 1981 ARIS)

**American Institute for Economic Research  
Summer Fellowships and Research Grants**

No. FY81-549

Program:  
Basic fellowship stipends of \$200 per month with an additional stipend of \$60 per month per dependent for those fellows with family responsibilities and research grants up to an additional \$300 per month for special projects conducted at the institute to undergraduates majoring in finance or economics, with a grade average of B or better who will have completed their junior year and graduate or post-graduate students of economics who have completed undergraduate work in preparation for advanced scientific work.

Deadline:  
April 30, 1981.

For Further Information, Contact:

American Institute for Economic Research  
Great Barrington, Mass. 11230  
(413) 528-1261

(From 1981 ARIS)

**American Institute for Economic Research  
In-Absentia Fellowships**

No. FY81-550

Program:  
Students who demonstrate during the summer fellowship adequate potential for development as economic scientists may apply for in-absentia fellowships at the college or university of their choice during the subsequent academic year. Such fellowships provide payment of tuition by the institute in addition to the stipend and allowances described above.

Deadline:  
April 30, 1981.

For Further Information, Contact:

American Institute for Economic Research  
Great Barrington, Mass. 11230  
(413) 528-1261

(From 1981 ARIS)

## **American Philosophical Society Grants**

No. FY81-551

**Program:**

Grants averaging \$1,000 for basic research in all fields of knowledge to persons holding the doctorate or having equivalent scientific or scholarly experience.

**Deadline:**

April 1, 1981.

**For Further Information, Contact:**

American Philosophical Society  
Whitfield J. Bell, Jr.  
Executive Officer  
104 South 5th Street  
Philadelphia, Pa. 19106  
(215) 627-0706

(From 1981 ARIS)

## **American Sociological Association Problems of the Discipline**

No. FY81-552

**Program:**

Grants, generally not exceeding \$1,500 to small groups of social scientists in order to facilitate intellectual exchange and to move their efforts into a more productive future. Groups receiving support will be required to submit progress reports one year following the date of their award.

**Deadline:**

May 1, 1981.

**For Further Information, Contact:**

American Sociological Association  
1722 N Street N.W.  
Washington, D.C. 20036

(From 1981 ARIS)

## **Center for Field Research Field Research Grants**

No. FY81-553

**Program:**

\$400 to \$50,000 grants (average between \$5,000 - \$10,000) to scholars of all nationalities whose projects can constructively utilize nonspecialists in the field, for research in any recognized academic discipline. Both basic and applied research projects are considered, providing there is a space available on the research team for participating nonspecialists. Preference is given to postdoctoral applicants whose projects staffs include graduate students of the particular discipline. Undergraduate research projects are not funded. There is no geographical limitation on the project, although due consideration is given to research being conducted in North America.

**Deadline:**

March 30, 1981.

**For Further Information, Contact:**

Center for Field Research  
Elizabeth E. Caney,  
Director of Research  
10 Juniper Road, Box 127A  
Belmont, Mass. 02178  
(617) 489-3032

(From 1981 ARIS)

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

No. FY81-554

**Program:**

National research service awards, ranging from \$13,000 to \$17,000 depending on experience, for postdoctoral candidates who have completed the Ph.D. or M.D. degrees to enter the training program at the medical center for a variety of backgrounds, including psychology, sociology, medicine, psychiatry or psychophysiology, and/or other biomedical, behavioral and social science disciplines. Priority will be given to those candidates who are sufficiently experienced and directed to start training toward their primary goals early in the program. The program is designed to provide the participant with research skills in the field of aging and life-span changes and the focus is on independent work in collaboration with faculty members. Applicants must be U.S. citizens or hold a U.S. immigrant visa. Supported by grants from NIA and NIMH.

**Deadline:**

May 1, 1981.

**For Further Information, Contact:**

Center for the Study of Aging and  
Human Development  
Research Training in Behavior and  
Physiology in Aging and Adult Development  
Dr. Ilene C. Siegler, Training Coordinator  
Box 3003  
Duke University Medical Center  
Durham, N.C. 27710  
(919) 684-3362

(From 1981 ARIS)

## **Distilled Spirits Council of the U.S., Inc. Alcoholism Research Grants-in-Aid**

No. FY81-555

**Program:**

Awards up to \$15,000 to further knowledge of the causes, nature, extent, treatment and understanding of various problems related to the abuse of alcoholic beverages. Eligible applicants include researchers in biological, medical and behavioral sciences. Students enrolled as degree candidates in graduate programs are not eligible to apply as principal investigator.

**Deadline:**

May 1, 1981.

For Further Information, Contact:

Distilled Spirits Council of the U.S., Inc.  
1300 Pennsylvania Building  
Washington, D.C. 20004  
(202) 628-3544

(From 1981 ARIS)

**The Hastings Center  
Student Intern Program**

No. FY81-556

Program:

The Hastings Center is an independent, nonprofit research and educational organization established in 1969 to examine ethical problems of the biomedical, social and behavioral sciences, as well as issues of professional ethics. This program provides for a general internship of a month or more, either during the school year or in the summer to permit students to pursue independent study in their particular project, with direction and supervision by a staff member, as well as participate in ongoing activities at the center. Applicants should be pursuing a degree and preference will be given to students preparing for careers in law or medicine.

Deadline:

April 15, 1981.

For Further Information, Contact:

The Hastings Center  
Bonnie Baya  
3600 Broadway  
Hastings-on-Hudson, New York  
(914) 478-0500

(From 1981 ARIS)

**International Union for Vacuum Science,  
Technique and Applications  
Welch Foundation Scholarships**

No. FY81-557

Program:

A stipend of between \$6,000 and \$7,000 to a young scientist who wishes to contribute to the study of vacuum science, technique or their applications in any field. Applicants must choose a laboratory to work with, preferably one that is known by the Welch Foundation. Scholars are encouraged to study in countries other than their own. Candidates must be under 35 years of age and have at least a bachelor's degree; a doctoral degree is preferred.

Deadline:

April 1, 1981.

For Further Information, Contact:

International Union for Vacuum Science,  
Technique and Applications  
Executive Office

47 Belgrave Square  
London SW1X 80X  
Great Britain  
London 235-6111

(From 1981 ARIS)

**Regional Economic History Research Center  
Research Fellowships**

No. FY81-558

Program:

Senior postdoctoral fellowships of a maximum of \$20,000 per year. Junior postdoctoral fellowships of a maximum of \$15,000 per year for research in the economic history of the Mid-Atlantic states, 1750-1850. The project focuses on the transition from an agrarian to early industrial, urban society, with particular attention to the social consequences of that transition. The center invites the participation of economic, social and intellectual historians as well as of historians of science and technology, agriculture and labor; anthropologists; economists; sociologists and geographers. Researchers will be in residence at the Eleutherian Mills Historical Library. The center also offers grants for stays of less than a semester and for summer visits. These grants will be available through June 30, 1982.

Deadline:

April 1, 1981.

For Further Information, Contact:

Regional Economic History Research Center  
Glenn Porter  
Eleutherian Mills-Hagley Foundation  
Box 3630  
Wilmington, Del. 19807  
(302) 658-2401

(From 1981 ARIS)

**Scientific Research Society of North America-  
Sigma XI Grants-in-Aid**

No. FY81-559

Program:

Research awards ranging from \$100 - \$1,000 to support individual scientific investigation; priority is usually given to applicants who are in the early stages of their scientific careers. Applications must be accompanied by two letters from specialists in the applicant's field; one of these should be a research advisor, if there is one. Proposed research may be made in any of the scientific fields, but the recommendation letters are essential as informed judgment as to whether the proposal is tenable.

Deadline:

May 1, 1981.

For Further Information, Contact:

Scientific Research Society of North  
America-Sigma XI  
Committee on Awards

345 Whitney Avenue  
New Haven, Ct. 06511  
(203) 624-9883

(From 1981 ARIS)

## current publications and other scholarly works

COLLEGE OF ARTS AND LETTERS

### Economics

- Bonello, Frank J.  
F.J. Bonello, T.R. Swartz and W.I. Davisson.  
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- Swartz, Thomas R.  
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cognitive achievement. Journal of Economic  
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### English

- Matthias, John E.  
J.E. Matthias. 1981. David Jones: A self-portrait.  
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- J.E. Matthias. 1981. Five American Poets. Persea  
Books. x + 160 pp.
- J.E. Matthias. 1981. From Northern Summer.  
Salmagundi 50-51:43-48.
- J.E. Matthias and G. Printz-Pahlson. 1981. The  
stranger. (Translated from the Swedish of Ingemar  
Leckius) Stonechat 1(1):3.

### Modern and Classical Languages

- Rubulis, Aleksis  
A. Rubulis. 1981. Aizejot. Aglonas Vestis  
Nr. 1/2 - 196/197. Page 6.

### Philosophy

- McMullin, Ernan  
E. McMullin. 1981. Die rolle der Geschichte der  
wissenschaft. Pages 745-752 in, J. Speck, ed.  
Handbuch Wissenschaftstheoretischer Begriffe.  
Göttingen, Vandenhoeck.
- E. McMullin. 1980. Explanation of historical  
discoveries in science. Pages 28-33; 40-46 in,  
T. Nickles, ed. Scientific Discovery: Case  
Studies. Dordrecht, Reidel.
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begriff. Pages 737-745 in, J. Speck, ed. Hand-  
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Göttingen, Vandenhoeck.

E. McMullin. 1980. Persons in the universe.  
Zygon 15:69-89.

### Theology

- Malloy, Edward A.  
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Christian ethics. Pastoral Life 30(2):28-32.
- O'Connor, Edward D., C.S.C.  
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beeckx. St. Luke's Journal of Theology 24(1):  
36-46.
- E.D. O'Connor, C.S.C. 1980. The origin of  
scholastic Mariology. De Cultu Mariano Saeculis  
XII-XV 4:1-26. Rome, Pontificia Academia Mariana  
Internationalis.
- Weaver, F. Ellen  
F.E. Weaver. 1981. Anglique de Saint-Jean: The  
second superior as mythographer in the dynamics  
of the reform of port-royal. Pages 90-101 in,  
Cistercians in the Late Middle Ages: Studies in  
Medieval Cistercian History IV. Cistercian Pub-  
lications. Kalamazoo, Michigan.

COLLEGE OF SCIENCE

### Biology

- Duman, John G.  
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water binding by fish antifreeze glycoproteins.  
Biochimica et Biophysica Acta 626:332-336.
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### Chemistry

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chemistry 20:15-21.
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Physics 74(1):453-466.
- Hamill, William H.  
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dispersive hopping in recombination of charge  
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- E.R. Marshalek. 1981. Microscopic particle vibrator model. Nuclear Physics A357:398.

#### COLLEGE OF BUSINESS ADMINISTRATION

##### Finance & Business Economics

- Keating, Barry P.  
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- B.P. Keating. 1981. Industry standards and the OMB. The Dow Jones Collegiate Forum Spring:12-13.
- Khoury, Sarkis J.  
S.J. Khoury. 1981. Transnational Mergers and Acquisitions in the U.S. Lexington Books. Springfield, Massachusetts. x + 293pp.
- Khoury, Sarkis J.  
S.J. Khoury and I. Damolena. 1980. Ratio stability and corporate failure. The Journal of Finance 35(4):1017-1026.

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\*Under the Radiation Laboratory  
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#### LAW

##### Mathematics

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##### Microbiology

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##### Physics

- Marshalek, Eugene R.

## monthly summary

### Awards Received

IN THE MONTH OF FEBRUARY, 1981

Department or Office	Principal	Short title	Sponsor	Dollars Months
AWARDS FOR RESEARCH				
Metallurgical Eng.	Kargol, Fiore	Hydrogen absorption by 2-1/4 Cr-Mo steel	Welding Res. Council	12,000 9
Chemistry	Nowak	Information transfer - enzyme activation and regulation	Natl. Inst. Health	36,936 12
Physics	Arnold	Theory of proximity effect tunneling	Natl. Sci. Fdn.	14,900 18

Department or Office	Principal	Short title	Sponsor	Dollars Months
Psychology	Pryor	Mnemonic organization of social information in small groups	Ohio State Univ. Res. Fdn.	17,320 12
Microbiology	Pollard	Drug delivery by incorporating drugs within liposomes	Miles Lab., Inc.	1,650 4
Chemistry	Basu	Glycolipid metabolism in tumor and transformed cells	Natl. Inst. Health	77,433 12
Mathematics	Stoll	Theory of several complex variables	Natl. Sci. Fdn.	28,668 12
Radiation Lab.	Schuler	Effects of radiation on matter	Dept. Energy	72,000 12

#### AWARDS FOR EDUCATIONAL PROGRAMS

Chemistry	Schwartz	Undergraduate research participation - Chemistry	Natl. Sci. Fdn.	21,995 11
Biology	Bender	Undergraduate research participation - Biology	Natl. Sci. Fdn.	19,779 11
Biology	Greene	"The Web of Life" - Michiana ecosystem as a natural laboratory	Natl. Sci. Fdn.	23,649 18
Advanced Studies	Gordon	McGee Fellowship Program in Economics	McGee Fdn.	3,500 9
Earth Sciences	Murphy, James	Program to attract minority students to major in Geology	(private corp.)	5,000 2
Mod. Class. Languages	Marullo	Lilly Endowment Faculty Open Fellowship, 1981-1982	Lilly Endow., Inc.	25,000 12

#### PROPOSALS FOR SERVICE PROGRAMS

Cent. Past. Soc. Min.	Melloh	Notre Dame Center for Pastoral Liturgy	- - -	401 - - -
Cent. Past. Soc. Min.	Melloh	Notre Dame Center for Pastoral Liturgy Training Program	- - -	2,081 - - -
Cent. Past. Soc. Min.	Melloh	Notre Dame Institute for Clergy Education	- - -	13,948 - - -
Cent. Past. Soc. Min.	Melloh	Religious Leaders Program	- - -	259 - - -

### Proposals Submitted

IN THE MONTH OF FEBRUARY, 1981

Department or Office	Principal	Short title	Sponsor	Dollars Months
PROPOSALS FOR RESEARCH				
Microbiology - Lobund Lab.	Pollard, Wostmann, Wagner	Spontaneous tumors in experimental animals	Natl. Inst. Health	336,273 12
Chemistry	Kowalski	Chemistry of $\alpha$ -keto dianions	Natl. Sci. Fdn.	396,882 48
Philosophy	Sterba	Humanities fellowship - "The practice of justice"	Rockefeller Fdn.	22,450 12
Chemistry	Scheidt	X-ray and chemical studies of metalloporphyrins	Natl. Inst. Health	84,363 12
Microbiology - Lobund Lab.	Marshall, Pollard	Synthetic carbohydrate protein conjugates	Natl. Inst. Health	92,632 12
Microbiology - Lobund Lab.	Pollard	Development and maintenance of germfree animal colonies	Natl. Inst. Health	212,247 12
Chemistry	Castellino	Structure - function studies of plasminogen and plasmin	Natl. Inst. Health	94,061 12
Physics	Livingston	Spectroscopy of highly-ionized atoms	Natl. Sci. Fdn.	142,888 24
Psychology	Kline	Stimulus persistence and age: Prospective analysis	Natl. Inst. Health	36,847 12
Metallurgical Eng.	Kuczynski, Allen	Study of pore shrinkage and Ostwald ripening in metallic systems	Dept. Energy	55,789 12

Department of Office	Principal	Short title	Sponsor	Dollars Months
Chemical Eng.	Kohn	Liquid-liquid-vapor equilibria in LNG systems	Gas Proc. Assoc.	21,902 7
Chemistry	Basu, Basu	Glycolipid biosynthesis in tumors and cloned tumor cells	Amer. Can. Soc., Inc.	112,455 36
Chemistry	Basu	Glycolipid metabolism in normal and pathological tissues	Natl. Inst. Health	104,920 12
Biology	Saz, de Mata	Volatile acid synthesis in helminths	Natl. Sci. Fdn.	- - - 2
Civil Eng.	Thompson	Severity measures for analysis in safety improvement programs	Natl. Hwy. Traf. Safety Admin.	40,000 12
Civil Eng.	Irvine, Kulpa, Wolf	Development of structured models for biological waste treatment	Natl. Sci. Fdn.	474,815 36
PROPOSALS FOR FACILITIES AND EQUIPMENT				
Aerospace Mech. Eng.	Slepicka	Application of minicomputers to manufacturing engineering	SME Fdn.	8,013 12
Aerospace Mech. Eng.	Nelson, Mueller, Szewczyk	Equipment for laboratory in fluid mechanics and aerodynamics	Natl. Sci. Fdn.	28,370 12
Electrical Eng.	Ajmera	Equipment for digital integrated circuit laboratory	Natl. Sci. Fdn.	10,668 24
Civil Eng.	Razzaq	Undergraduate structures laboratory equipment	Natl. Sci. Fdn.	28,758 12
PROPOSALS FOR EDUCATIONAL PROGRAMS				
Physics	Shephard	XII International Symposium on Multiparticle Dynamics	(private fdtns.)	55,730 12
Aerospace Mech. Eng.	Lucey	INPO Fellowships	Inst. Nuclear Power Opr.	21,040 12
Metallurgical Eng.	Miller	Teaching aids and design problems for engineering concepts	Natl. Sci. Fdn.	45,000 24
Snite Museum Art	Porter	General operating support	Inst. Museum Services	35,000 12
PROPOSALS FOR SERVICE PROGRAMS				
Biology	Grimstad, Craig	Arbovirus surveillance laboratory service	Ind. State Board Health	135,931 12

## summary of awards received and proposals submitted

IN THE MONTH OF FEBRUARY, 1981

### AWARDS RECEIVED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	4	\$ 215,037	4	\$ 45,870	8	\$ 260,907
Facilities and Equipment	-	- - -	-	- - -	-	- - -
Educational Programs	2	27,149	4	71,774	6	98,923
Service Programs	-	- - -	4	16,689	4	16,689
Total	6	242,186	12	134,333	18	376,519

### PROPOSALS SUBMITTED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	7	\$ 597,841	9	\$ 1,630,683	16	\$ 2,228,524
Facilities and Equipment	-	- - -	4	75,809	4	75,809
Educational Programs	-	- - -	4	156,770	4	156,770
Service Programs	-	- - -	1	135,931	1	135,931
Total	7	597,841	18	1,999,193	25	2,597,034

DR. WILLIAM B. BERRY  
ASSISTANT DEAN  
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## notre dame report

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