

# notre dame report

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84-85

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# faculty notes

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## honors

J. Douglas Archer, assistant librarian, has been reappointed to the publications committee of the American Library Association's Intellectual Freedom Round Table.

John G. Borkowski, professor of psychology, has been named a consulting editor of Intelligence.

James J. Carberry, professor of chemical engineering, has been re-elected by the board of trustees at Princeton University to another four-year term as a member of the Advisory Council for their chemical engineering department. Prof. Carberry also was honored by the University of Utah by being designated their E. W. Thiele Lecturer for 1984. The lectureship was established to honor E. W. Thiele, a distinguished chemical engineer who taught at Notre Dame from 1960 until his retirement in 1971. Carberry is the second Thiele Lecturer, the first being Dr. K. W. McHenry, vice president of Amoco Oil Company, where Thiele served as a research director prior to his Notre Dame affiliation. The lectures were delivered Oct. 29 - Nov. 2.

Charles Craypo, chairman and professor of economics, has been appointed to the board of directors of the Business Development Corporation of South Bend, Mishawaka and St. Joseph County, Inc., effective Sept. 10.

Moiria Marti Geoffrion, associate professor of art, art history and design, was appointed regional chairperson for the Indiana Advocates for the Arts, an Indiana Arts Commission-supported arts advocacy group.

Mark A. McDaniel, assistant professor of psychology, has been selected for membership in GUV, effective Sept. 4, and elected to the Division of Experimental Psychology of APA (American Psychological Association) Aug. 22.

Kathie E. Newman, assistant professor of physics, was voted one of three "best paper" awards, the F.E. Williams prize, by the participants of the International Conference on Superlattices, Microstructures, and Microdevices for her theory of metastable semiconductors, published in collaboration with graduate student David Jenkins.

Rev. James F. White, professor of theology, has been chosen for membership on the Review Board of the Religious Book Club.

Lawrence A. Woods, associate librarian, was elected to the board of directors of the American Society for Information Science Oct. 14 for a two-year term.

## activities

Charles W. Allen, professor of metallurgical engineering, presented two papers, "Dynamics of Laves Phase Intersections in a Concentration Gradient" and "A Study of Intermetallic Compound Development in Nickel-Tin Interfacial Zones," the latter co-authored with Albert E. Miller, professor of metallurgy, and Gordon A. Sargent, professor and chairman of metallurgical engineering and materials science, at the fall meeting of the Materials Research Society, Boston, Mass., Nov. 26-30.

J. Douglas Archer, assistant librarian, led a session titled "Censors Are People Too: Defusing the Angry Censor" at the Indiana Library Association, District 3 Fall Meeting, Pokagon State Park, Angola, Ind., Oct. 3.

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James O. Bellis, associate professor of anthropology, read a paper titled "Pre-European Gold Mining in Ghana: The Archaeological Evidence" as a participant in the symposium "Asante and Its Neighbors," sponsored by the American Museum of Natural History, and held in New York City Oct. 13-17.

Joseph Blenkinsopp, professor of theology, gave an invited paper, "The Sage in the Persian Period," in the Israelite and Early Christian Wisdom section of the annual meeting of the Society of Biblical Literature, held in Chicago Dec. 8.

John G. Borkowski, professor of psychology, participated as the external examiner on Canadian dissertations at the University of Calgary (July 26) and the University of Western Ontario (Nov. 19). Recently he served on program selection committees for the Society for Research in Child Development and the American Educational Research Association.

Roger L. Brooks, assistant professor of theology, gave a presentation titled "Images of Rich and Poor: Toward a Theory of Social Responsibility in Jewish Poor-Relief" to the Early Rabbinic Studies section of the Society for Biblical Literature annual meeting, Chicago, Dec. 8-11.

Richard S. Burns, adjunct associate professor of English in the Arts and Letters London Program, gave the following presentations and poetry readings in recent months: A visit to Chantry High School, Ipswich, as part of the Poetry Society of Great Britain "Writers in Schools" program, last summer; a poetry writing workshop for children at the Centre for Foreign Languages, Belgrade, Yugoslavia, in October; a writing workshop for parents and children at the Southend Teachers' Centre, London, in November, and an introduction to The Menard Press 15th anniversary celebration, London, in November. He gave readings at the Notre Dame London Centre in January, at the Thetford and District Writers Circle in February, and at Kolarcev University, the Centre for Foreign Languages, and the British Council, all in Belgrade, in October. He also was interviewed in a broadcast over Radio 202, Belgrade, in October, and participated in the 21st "October Meetings of Writers" conference organized by the Association of Serbian Writers, also in Belgrade.

Rev. James T. Burtchaell, C.S.C., professor of theology, gave a workshop on Catholic education at Cathedral High School, Indianapolis, Ind., Nov. 14. He served as a consultant to the Chief of Naval Operations, U.S. Navy, Dec. 9-11, and gave the dedication sermon at Hilltop Lutheran Church, South Bend, Dec. 16.

Charles Craypo, chairman and professor of economics, presented a paper and workshop titled "The Impact of Investor-Owned Health Care Chains on Hospitals, Employees and Communities" at the AFL-CIO Professional Employees Conference on "The Changing Face of the Health Care Industry," Boston, Mass., Sept. 22.

Norman A. Crowe, associate professor of architecture, presented a paper titled "Visual Notes: Drawings that Link Observations with Design" at the annual regional symposium of the Association of Collegiate Schools of Architecture, Waterloo (Ontario) University, Oct. 17.

Jay P. Dolan, associate professor of history and director of the Cushwa Center for the Study of American Catholicism, presented a paper titled "The Immigrant Catholic Ethos" at a History Department Colloquium for Calvin College, Grand Rapids, Mich., Nov. 15.

Barbara J. Fick, associate professor of law, filed an amicus curiae brief in the United States Supreme Court on behalf of the Teamsters for a Democratic Union in the case of Pattern Makers' League v. NLRB, Nov. 19.

Denis Goulet, O'Neill professor of education for Justice and in the Kellogg Institute, attended a meeting of the Program Advisory Committee of the Overseas Development Council in Washington, D.C., Nov. 30, to plan the council's research and publications for the coming year.

Jeffrey C. Kantor, assistant professor of chemical engineering, is a co-author of two papers presented at the annual AIChE meeting in San Francisco, Cal., held Nov. 26-29. The papers were titled "A Thermodynamic Criterion for Unique Solutions in Multicomponent, Homogeneous Distillation Processes," presented by Karlene A. Hoo, and "Occurrences of Zeros in Optimized Chemical Processes" presented by William J. Schmidt and co-authored with Janet M. Fox.

Edward A. Kline, professor and chairman of English and director of the Freshman Writing Program, conducted a lecture-workshop on the use of computer-assisted instruction in English grammar and spelling for faculty and students at Ancilla Domini College, Donaldson, Ind., Nov. 21.

Klaus Lanzinger, professor of modern and classical languages and director of the Notre Dame foreign study program in Innsbruck, gave a talk on "Austria in American Literature" before the Austro-American Society in Innsbruck Jan. 19; he also participated in the discussions of the plenary sessions of the European Association for American Studies Biennial Conference at the University of Rome, April 16-19.

Ruey-wen Liu, professor of electrical engineering, gave a research seminar, "A Novel Equalizer for High-Speed Data Transmission in a Frequency Band-Limited Channel" and a graduate seminar, "Linear Feedback System Design: Commonalities and Differences" at the University of Illinois at Urbana, on Oct. 23-24.

Mark A. McDaniel, assistant professor of psychology, presented an invited talk titled "Encoding Effort and Memory" at the annual meeting of GUV (an organization of experimental psychologists -- counterpart to the East Coast's Psychological Round Table), Bloomington, Ind., Nov. 30.

Ralph M. McInerney, Grace professor of medieval studies, director of the Medieval Institute and the Maritain Center, and professor of philosophy, spoke on "Stein and Thomism" at the Edith Stein Conference, Catholic University of America, Washington, D.C., Sept. 23; participated in a debate titled "Charter of the Rights of Catholics: All Catholics Have a Right to Help Choose Their Leaders and to Hold Them Accountable," held at Princeton University, Oct. 4; gave a talk titled "After Laughter" at the South Bend Public Library Oct. 7; gave a presentation on "Literature and the Mystery Novel" to the South Bend branch of the American Association of University Women Oct. 17; and spoke on "Maritain and Natural Rights Revisited" at a meeting of the American Maritain Association in Chicago Oct. 20. He also gave a presentation on "Single-Issue Voting" at Notre Dame Nov. 2, and on "Thomism Revisited" at Ohio Dominican College, Columbus, Nov. 4.

Rev. John Allyn Melloh, S.M., associate professional specialist in theology and coordinator of the John S. Marten Program in Homiletics and Liturgics, served as theological resource person for monthly theological reflection on clinical case studies at St. Joseph Medical Center, South Bend,

Nov. 29. He also participated in the annual Academy of Homiletics meeting held at Princeton (N.J.) Theological Seminary, Dec. 5-8.

Thomas L. Nowak, associate professor of chemistry, served as a special reviewer of the Physical Biochemistry Study Section of the National Institutes of Health grants review panel Oct. 17-19. He served as organizer and chairman of the fourth Midwest Enzyme Chemistry Conference held at the University of Illinois Medical School, Chicago, Oct. 27, and presented the following papers at the conference: (with S.H. Hwang) 3-Fluorophosphoenolpyruvate interactions with PEP carboxykinase; (with P. Kramer) Interactions of Cr(III) GDP and Cr(III) GTP with PEP carboxykinase; (with B.H. Lee) pH effects on Binding and Kinetic Studies on Yeast Enolase. Dr. Nowak also presented the following invited seminars: "Application of Nuclear Magnetic Resonance to Mechanistic Problems in Biochemistry," for the department of chemistry at Andrews University, Berrien Springs, Mich., Nov. 7; "Substrate Analogues in the Study of the Mechanisms of Phosphoenolpyruvate Utilizing Enzymes" for the Biosciences Research Division at Eastman Kodak, Rochester, N.Y., Nov. 19; and "NMR Studies of the Chemical Mechanism of Phosphoenolpyruvate Carboxykinase" for the department of chemistry, University of Rochester, N.Y., Nov. 20.

Irwin Press, professor of anthropology, delivered a paper titled "Speaking Hospital Administration's Language: Strategies for Clinical Anthropological Entre" at the annual meeting of the American Anthropological Association, Denver, Colo., Nov. 18. Dr. Press also organized and chaired a symposium titled "Overviews of Urban Theory and Method" at that meeting. He also gave a paper titled "The Patient's Perspective in the Malpractice Crisis" at a meeting of the Indiana Association of Hospital Risk Management, Indianapolis, Ind., Nov. 30.

Michael K. Sain, Freimann professor of electrical engineering, gave a presentation titled "Nonlinear Models with Tensor Algebra" at the General Motors Technical Center, electrical engineering division, Warren, Mich., Aug. 27. He also is co-author with Joseph A. O'Sullivan of a paper titled "Nonlinear Feedback Design: Optimal Responses by Tensor Analysis," which was presented at the 22nd Allerton Conference on Communication, Control and Computing at Monticello, Ill., Oct. 5.

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 participated in a symposium titled "Research on Gender and Ethnicity: Uses, Abuses and Dilemmas" at the 37th annual scientific meeting of the Gerontological Society of America, San Antonio, Tex., Nov. 17.

Janet E. Smith, assistant professor in the Program of Liberal Studies, gave a presentation titled "Abortion, Virtue and Grace" for Problem Pregnancy Services, Chapel Hill, N.C., Nov. 18.

William Strieder, professor of chemical engineering, presented a paper titled "Variational Analysis of Conduction in Two-Phase Media" in the session on Advances in Applied Mathematics at the AIChE 1984 annual meeting, San Francisco, Cal., Nov. 25-30.

Rev. Xavier Tilliette, S.J., John A. O'Brien visiting professor of theology, gave a lecture on "The Problem of Jesus in the Light of Philosophical Christologies" to the department of theology at Loyola University, Chicago, Nov. 9. He also gave a lecture titled "A Presentation of Gabriel Marcel" in the department of philosophy at Kingsborough Community College (CUNY), Brooklyn, Nov. 15, and presented a lecture on "Catholic Theology and German Idealism" at the O'Meara Colloquium on the Catholic Theology of the 19th Century, held at Notre Dame Nov. 4.

Rev. James F. White, professor of theology, met with the Ecumenical Marriage Rite Committee of the Consultation on Common Texts, Nov. 16-17, and spoke to the Northern Indiana Chapter of the Order of St. Luke on "Arranging a Church Interior for the Reformed Liturgy," Nov. 30.

Erhard M. Winkler, professor of earth sciences, gave an invited lecture titled "Influence of Acid Rain on Stone: Facts and Fallacies" at the international conference, "Working Together to Control Acid Rain and Toxic Contamination - An Update," held in Chicago Nov. 27-28.

Eduardo E. Wolf, associate professor of chemical engineering, presented the following papers at the 1984 annual AIChE meeting, Nov. 26-29, in San Francisco, Cal.: "FTIR Studies of Transient and Oscillatory Behavior During CO Oxidation of Pt/SiO<sub>2</sub> and Pd/SiO<sub>2</sub> Catalysts"; "Photo-Assisted Dissociation of Water by Visible Light in the Presence of Heterogeneous Catalysts"; "FTIR Studies of Surface Reaction Dynamics During Ethylene Oxidation of Pt/SiO<sub>2</sub>"; "Catalytic Liquefaction of Coal with Supercritical Solvents," and "Kinetics and FTIR Studies of Steam Gasification of Coal Char Catalyzed by Alkali Salts." He also chaired two sessions on "Fundamentals of Catalysis" and one session on "Fundamentals of Coal Gasification" at that meeting.

John H. Yoder, professor of theology, presented a paper, "Terrestrial Jerusalem and Celestial Jerusalem" at an "Institute" on Jewish-Christian Relations held in Bloomington, Ind., Dec. 10-13.

### erratum

Editor's Note: The following correction to Notre Dame Report #6 was brought to the editor's attention. The underlined portion is the correct change to be made.

Moiria Marti Geoffrion, associate professor of art, art history and design, was invited to curate the exhibition titled "16 Chicago Sculptors" at Northeastern University Gallery, Boston, Mass. The exhibit runs from Nov. 6 through Dec. 14. She also was invited to do an installation of "Winters' Mists Are Upon Us" (Sculpture 6'x8'x2') and to include two bronze sculptures and two drawings in the "16 Chicago Sculptors" exhibition.

# documen- tation

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## faculty senate journal november 7, 1984

The Faculty Senate meeting was called to order at 7:35 p.m. room 202 of the Center for Continuing Education by Fr. David Burrell, who then led the senate in the opening prayer.

Prof. Mario Borelli moved that the minutes of the Oct. 8 meeting be approved. Prof. Joseph Blenkinsopp seconded. There were two changes in the listing of absences. The minutes were then approved.

Burrell thanked the senate with a special word of thanks to Borelli for the work done on the revision of the Faculty Manual. He congratulated Blenkinsopp for his appointment to the O'Hara Chair in Theology. Then he commended Prof. Thomas Bergin for his work on the faculty seminars, and Mr. William Hickey, Jr., for arranging lunches in Decio Commons. He also announced that there would be a mailing of the senate's five-year report soon.

After thanking Prof. Donald Barrett, Borelli, and Mr. Paul Rentschler for their work on health benefits, Burrell turned the meeting over to Barrett for a status report. Barrett urged all faculty to talk to the representatives from Blue Cross/Blue Shield and Maxicare as the senate had strongly urged last year that there be choices in health benefits. He reported that the choices were made available so suddenly because Maxicare had finally been able to get their offer together while the Flex Plan was the result of the hard work of the Personnel Dept. He hoped that the faculty would recognize the fact that the University is paying a substantial amount of money per month to the plans for each faculty member. Regardless of the choice of plans, the University's contribution will be the same, i.e., over \$150 per month, per faculty member. Also Barrett urged that the faculty help reduce costs by asking physicians to join the VIP Program, i.e., promising not to bill more than the usual and customary charge per service. He read a letter Mr. Rentschler had written to the president of Blue Shield following up on the senate's request for a list of VIP physicians.

Barrett then reported on several possible future plans: dental coverage funded fully by members, a wellness program to identify high-risk members so that preventative care could be given thus reducing costs, and another HMO offered by Michigan Blue Cross/Blue Shield HMO. At this point Barrett offered the following three motions:

- A. Be it resolved that the Faculty Senate send an appreciative Thank You to Fr. Hesburgh, Fr. Joyce, Prof. O'Meara, Mr. Mason and all others who worked on the new medical benefits plan.
- B. Be it resolved that the Senate elect a Faculty Benefits Committee to encourage faculty input into benefit planning, to study and make proposals on the University benefits package.
- C. Be it resolved that the Senate make a formal request of Administration for a copy of the annual report on the operations and financing of the Medical Benefits Plan which was effective Sept. 1, 1983 to Aug. 31, 1984.

The first was seconded by Capt. John Rohrbough, the second by Borelli, and the third by Prof. Katharina Blackstead. All were unanimously passed. Burrell suggested that anyone interested in serving on the Faculty Benefits Committee contact him or Prof. Jean Rosenberg.

Turning to committee reports Burrell gave the floor to Prof. Teresa Phelps, chair of the Student Affairs Committee. She reported that, thanks to Prof. David Dodge, the report on the Placement Office would be ready for discussion at the senate's December meeting. She welcomed any ideas from the senate with regard to the relationship between academic and student life. This has been a topic of discussion with Fr. David Tyson and Fr. Edward Malloy. Mr. Patrick McCauley, academic chairperson of the Student Council, said they hoped to come up with ideas to improve intellectual life on campus as this was the responsibility of faculty, students, and administration.

In a corollary report Burrell stated that he would bring up before the Board of Trustees Committee on Faculty Affairs the senate's report on student aid as it has not had adequate response.

Prof. Robert Vacca reported on the progress of the Faculty Affairs Committee with regard to the senate's second priority: renewal of faculty appointments and junior faculty. Comments will be solicited from all 31 department chairs in order to arrive at college-wide statements concerning the ability to discern tenurability at the time of reappointment as well as possible differences between department and/or colleges in applying criteria. There will be two faculty fora for junior faculty to express their candid opinions of the reappointment and tenure process. All ideas will be collated with a report ready for the March meeting.

Prof. Paul Conway expressed the opinion that quite a bit had evolved from one meeting of the committee. Burrell and Vacca commented that the Provost's Oct. 31, 1984 letter to the faculty also seemed to be a response to the senate's interest in reappointment and junior faculty. Blenkinsopp asked if the denominational matter had been brought up. Burrell responded that the Provost subscribes to looking at this at the time of hire, and not at any other time. Prof. Alex Hahn pointed out the Provost's reaffirmation that candidates must have potential or "... the proper trajectory for tenure." Prof. Robert Lordi asked if the criteria for reappointment were published in the Faculty Manual. Vacca said that this was one of the questions being asked of department chairs.

Burrell expressed the opinion that reappointment was also a problem for senior faculty who must either make or assist in making reappointment decisions. Borelli said that the Executive Committee of the Academic Council was also very concerned with this matter.

Burrell then gave the floor to Prof. John Uhran. He reported that out of one meeting of the Administrative Affairs Committee concerning the topic of faculty development had come several ideas and he hoped that small groups would begin working on them soon. A report on university chairs would soon be out for the senate, and it would point out some innovative ways to honor deserving faculty. The use of the Library as a teaching/research tool and the faculty's relationship to the Library hopefully would be discussed with Mr. Robert Miller. Bringing up the topic of faculty honors, Lordi asked about awards for research as Fr. Theodore Hesburgh gives awards for teaching and service. Uhran responded that a larger number might be considered. Phelps felt that the entire topic of general leave policies and grants needed examination.

Hahn asked Uhran to elaborate on the discussion of endowed chairs. He replied that it should be part of a larger perspective. Burrell commented that the North Central Accreditation Committee had also been concerned with this issue. He had noted that the University's Undergraduate Bulletin had identified by name photos of endowed chair professors. He had written the Provost, and Sr. John Miriam responded that the publication would in the future identify any professor's picture. He cited this as an example of the regard the University has for endowed chairs and of the need to work on the idea of university chairs as their complement. He mentioned that the faculty members of the Academic and Faculty Affairs Committee of the Board of Trustees would be caucusing to discuss faculty renewal, university chairs, and funding for them as this was a more comprehensive way to build up the University.

Prof. James Bellis asked what Notre Dame was doing to produce chairs for professors for itself rather than for other universities. Burrell mentioned Princeton's idea of preceptorships, and Prof. John FitzGerald noted that previously the University had a similar process. Blenkinsopp reminded the senate that endowments would be needed to finance these ideas. Vacca remembered that the Provost had said that the fund raisers were against preceptorships because it is easier to raise money for endowed chairs.

Barrett reminded the senate that Fr. Hesburgh didn't seem to know about the idea of university chairs, but that he was interested if it didn't cost too much. Uhran described several examples of low-cost university chairs such as a research chair with a stipend under \$10,000, extra travel allowance which could be awarded for a fixed time or for life, distinguished service professorships. Prof. Peri Arnold stated that there is a morale problem for those faculty members who won't reach full professorships as there will be more levels to which one can't obtain. Uhran responded that these university chairs and distinguished service professorships could easily be awarded assistant and associate professors. Burrell suggested they could be awarded to outstanding teachers.

At this point Prof. Irwin Press suggested that the senate look at the criteria for those who would be promoted to full professor from associate because he felt that university chairs would be adding just another social class and not contributing to collegiality. Burrell countered that this could be a project for next year's senate. He then closed this discussion by saying that unfortunately no one wants to project the dollar amounts which would be necessary to implement this project.

Burrell next brought up the subject of the Faculty Manual revision. The senate's role in providing candidates for various elections has been taken over by an elections committee. The senate may nominate candidates directly for committees "... except as otherwise provided."

Reporting on the afternoon's Academic Council meeting Burrell said that the criteria for tenure and for promotion to associate professor were discussed. Notable achievement in scholarship through publication or service relevant to scholarship would be required. Examples of this are speeches to conventions which would be published in proceedings rather than just scholarly articles. This will now be considered as directly relating to scholarship/research.

Under new business, Borelli outlined the problem of deductibles with regard to the health benefits. It is all a matter of timing for the family plans because coinsurance does not begin until two deductibles have been expended. As the two new plans do cost more, Borelli felt that the senate should push for having the extra costs treated as salary reductions rather than deductions for the purposes of taxes.

Barrett then reminded the senate of the Faculty Benefits Committee it had just approved and the fact that this idea is something they could bring to Mr. Rentschler. Prof. Andre Goddu and Prof. James Danehy both confirmed the fact that salary reductions were legal. Burrell suggested that Barrett chair the committee which could monitor the benefit plans. Prof. Robert Williamson and Prof. Francis Connolly responded to Burrell's call for volunteers to serve on the committee. Burrell said he would draft a letter to the faculty and staff about the committee's formation.

Barrett brought up the question of retired faculty living in the South Bend area, wondering if there were some ideas for constructive projects they could carry out for the University. He felt there was a potential for academic contributions which they could make, perhaps to freshman seminars. FitzGerald mentioned that he does currently teach. Prof. Teresa Ghilarducci suggested that there should be some monetary backing for this work. Prof. Linda-Margaret Hunt felt individuals could contribute to improving student-faculty interactions and the intellectual climate on campus. However, Danehy was opposed to the idea and felt much more discussion was needed.

There being no more new business, Prof. David Dodge moved that the meeting be adjourned. Uhran seconded this, and the meeting was adjourned at 9:25 p.m.

Absent but not excused: Tomoaki Asano, microbiology; Salvatore Bella, management; Philip Gleason, history; Donald Kommers, government and law; William McGlinn, physics.

Absent and excused: Jay Dolan, history; James Flanigan, C.S.C., art, art history and design; Michael Francis, government and international studies; Sandra Harmatiuk, freshman year of studies; Eugene Henry, electrical engineering; James Powell, graduate admissions.

Respectfully submitted,

Jean A. Rosenberg



# advanced studies

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## information circulars

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

## social sciences

See complete information regarding the information circulars listed below under the category of Science.

Alcoholic Beverage Medical Research  
Foundation  
No. FY85-330

North Atlantic Treaty Organization  
Advanced Study Institutes Programme  
No. FY85-335

## Spencer Foundation Education Research Grants

No. FY85-343

### Program:

Grants of variable amounts (average award \$50,000) are awarded for research in the behavioral sciences aimed at the improvement in education in such fields as the study of exceptionally gifted children, studies of early childhood and its effect on cognitive development, studies of schooling, and studies on the biological bases of learning. An informal letter of inquiry or a brief preliminary proposal should be submitted to the Foundation to determine whether the proposed project falls within the Foundation's scope. If the proposed research appears to be of potential interest, a formal proposal will then be requested. The preliminary proposal

should include a descriptive narrative of the research project, including some samples of research instruments if available; a curriculum vitae of the principal investigator, a bibliography, and a detailed budget including the proposed time needed for the work. Proposals are accepted at any time, but there are specific deadlines for consideration of full proposals at the following quarterly meetings of the program committee and board of directors. These deadlines are February 1, May 1, August 1 or November 1.

For Further Information Contact:

Spencer Foundation  
Marion M. Faldet, Vice President  
John Hancock Center  
875 North Michigan Avenue  
Chicago, IL 60611  
(312) 337-7000

(From 1984 ARIS)

## science

See complete information regarding the information circulars listed below under the category of Social Sciences.

Spencer Foundation  
Education Research Grants  
No. FY85-343

### Alcoholic Beverage Medical Research Foundation Research Grants

No. FY85-330

Program:

The mission of this foundation is to contribute new knowledge toward the prevention of alcohol misuse and alcoholism; and to monitor the safety of alcoholic beverages. Research will be conducted in five areas: 1) The effects of moderate use of alcohol, and factors influencing the transition from moderate to excessive drinking; basic as well as clinically and epidemiologically oriented studies will be considered; 2) Beverage differences in relation to the spectrum of alcohol effects in man; 3) Factors involved in traffic accidents, with special reference to the role of alcohol; 4) Nutritional considerations in the area of alcoholic beverage effects; and 5) Alcoholic beverages in relation to diseases and conditions commonly

regarded as non-alcoholic in origin. Studies specifically directed to the so-called fetal alcohol syndrome will have a low priority. The Foundation will accept research grant applications from U.S. and Canadian universities and research institutions. Grants are for a one-year period and range in amount from \$10,000 to \$35,000. The applications will be considered by either the Medical Advisory Council or the Behavioral and Social Advisory Council at their spring or fall meetings. Application forms are available from the Foundation.

Deadline:

February 1 and September 15, 1985

For Further Information Contact:

Alcoholic Beverage Medical Research Foundation  
Gail L. Marsh  
Johns Hopkins University  
Turner 57  
720 Rutland Avenue  
Baltimore, MD 21205  
(301) 955-3264

(From 1984 ARIS)

### Argonne National Laboratory Argonne Fellow Program

No. FY85-332

Program:

Argonne National Laboratory has established the position of Argonne Fellow to attract outstanding scientists and engineers to the Laboratory for extended periods of up to one to two years. Candidates should be distinguished scientists and engineers at points of prominence in their careers. Multidisciplinary interests, creativity, and ability to interact with and motivate others, plus recognized preeminence in a field of current or potential important to the Laboratory are among particular attributes sought. The Laboratory is engaged in nuclear reactor development, energy and environment R&D, biological, medical, chemical, nuclear and high energy physics and materials science research. Financial support and other prerequisites will be provided. Applications and recommendations should be addressed to Dr. Huberman.

For Further Information Contact:

Argonne National Laboratory  
Dr. Eliezer Huberman  
Chairman

Argonne Fellow Committee  
Box D-55, Building 202  
9700 South Cass Avenue  
Argonne, IL 60439  
(312) 972-3819

(From 1984 ARIS)

## Argonne National Laboratory Faculty Research Leave

No. FY85-331

### Program:

Research programs in the areas of physical and life sciences, mathematics, computer science, and engineering, as well as applied research relating to coal, conservation, environmental impact and technology, fission, fusion, and solar energy are supported.

Appointments are normally for a calendar year, extendable, with financial support provided to the university by Argonne at 50% of salary and fringe benefits for the academic year and 100% of summer salary and benefits. Argonne may also reimburse the faculty member by direct payments for certain travel, moving, and housing costs. Faculty members must have a sabbatical leave award to be eligible.

### For Further Information Contact:

Argonne National Laboratory  
Division of Educational Programs  
9700 South Cass Avenue  
Argonne, IL 60439  
(312) 972-3365

(From 1984 ARIS)

## The Educational Foundation of America Project Grants

No. FY85-339

### Program:

Awards from \$10,000 to \$100,000 are made to institutions for specific projects in the area of undergraduate higher education, as well as in the medical field, particularly dealing with cancer and heart disease research and care. Applicants should submit an informal letter or brief preliminary proposal with the following information: 1) aims of the project; 2) methods and procedures; 3) a brief budget; 4) evidence of tax exempt status. The Foundation does not provide funds for endowment or building programs, for grants to individuals, or for annual fund raising campaigns.

### For Further Information Contact:

The Educational Foundation of  
America  
Mr. Richard W. Hansen  
Executive Director  
16250 Venture Boulevard, Suite 445  
Encino, CA 91436-2255  
(818) 990-2724

(From 1984 ARIS)

## Henry J. Kaiser Family Foundation Project Grants in Health and Medicine

No. FY85-341

### Program:

Institutional grants of varying amounts (have ranged from \$1,200 to \$300,000) for up to three years (matching funds requirements negotiable) are awarded for projects in health fields. There is no formal application procedure. A letter outlining the plan and objectives of the project, pertinent information on the organization and the individuals who will be directing the project, budget estimates, and evidence of IRS 501 (C)(3) tax status should be submitted to the Foundation directly.

### For Further Information Contact:

Henry J. Kaiser Family Foundation  
Bernard W. Nelson, M.D.  
Executive Vice President  
525 Middlefield Road, Suite 200  
Menlo Park, CA 94025  
(415) 329-1000

(From 1984 ARIS)

## North Atlantic Treaty Organization Advanced Study Institutes Programme

No. FY85-335

### Program:

The NATO Civil Science Committee provides support of approximately \$25,000 for Institutes to cover the major part of travel and living expenses for lecturers, and students. ASIs are tutorial courses of two weeks duration on new, important topics in most fields of the natural and social sciences for up to 100 scientists and research students. ASIs aim at the dissemination of advanced scientific knowledge and promotion of interna-

tional contacts among scientists. No tuition fees are requested from participants. Scientists wishing to organize such a meeting should contact the NATO office for more information and application forms.

Deadline:

January 15, April 15, July 15 and September 15, 1985

For Further Information Contact:

North Atlantic Treaty Organization  
Scientific Affairs Division  
Director  
Advanced Study Institutes Programme  
B-1110 Brussels  
Belgium  
Tel. (02) 241 44 00

(From 1984 ARIS)

**National Institutes of Health - National Cancer Institute Medical Imaging for Diagnosis and Treatment of Cancer**

No. FY85-320

Program:

The Radiation Research Program of NCI wishes to encourage the submission of applications in the following areas of medical imaging for the diagnosis and treatment of cancer: 1) Development of new and improved contrast media for conventional and ultrasound diagnostic imaging as well as new modalities such as magnetic resonance imaging (MRI) (Contact: Dr. Matti Al-Aish, Program Director, address as below); 2) Research on 99m Technetium and/or 123 Iodine labeled radiopharmaceuticals and associated tomographic imaging systems (Dr. Al-Aish); 3) Tissue characterization by ultrasound and by X-ray computed tomography (Contact: Mr. Roger S. Powell, Program Director, address as below).

Deadline:

March 1, July 1 and November 1, 1985

For Further Information Contact:

National Institutes of Health -  
National Cancer Institute  
Division of Cancer Treatment  
Radiation Research Program  
Diagnostic Imaging Research Branch  
Landow Building, Room 8C09  
7910 Woodmont Avenue  
Bethesda, MD 20205  
(301) 496-9531

(From 1984 ARIS)

**National Institutes of Health - National Cancer Institute Prediction of Tumor Response to Radiation Therapy**

No. FY85-321

Program:

The Radiation Research Program of NCI is inviting grant applications to investigate the relationship of various factors to the curability of malignant tumors by radiation therapy in the clinical situation. These factors include intracellular parameters such as DNA strand break and repair; the related process of potentially lethal damage repair; micronucleus frequency; DNA content, ploidy, number of S-phased cells, and sulphhydryl content; and extracellular environmental factors such as oxygen tension and environmental nutrients.

Deadline:

March 1, July 1 and November 1, 1985

For Further Information Contact:

National Institutes of Health -  
National Cancer Institute  
Division of Cancer Treatment  
Radiation Research Program  
Radiotherapy Development Branch  
Dr. Richard L. Cumberlin  
Program Director  
Landow Building, Room 8C08  
7910 Woodmont Avenue  
Bethesda, MD 20205  
(301) 496-9360

(From 1984 ARIS)

**National Institutes of Health - National Cancer Institute RFA - Cooperative Group for Studies on Mutagens in Human Foods**

No. FY85-322

Program:

The NCI plans to make at least one cooperative agreement award for a group funding arrangement that permits a combination of available research expertise from diverse institutions (academic, not-for-profit, and industrial) and the facilitating resources of the NCI to better understand the possible role, fate, and cancer relevance of known dietary mutagens commonly present in human foods. The Cooperative Group should be composed of a group director, an NCI coordinator, and program leaders in four broad scientific disciplines: biology, chemistry, biochemistry, and toxicology. Applications

should be responsive to one or more of the following categories: 1) In depth, basic studies on a small number of mutagens selected from among those which are known to occur naturally in human foods, those found in human feces, and those human dietary mutagens the formation of which is associated with the processing and preparation of food; compounds of particular interest include, but are not limited to, the following six classes: heteroaromatic amines of the carboline and imidoquinoline types, hydroxylated flavonoids, carbonyl compounds such as acrolein, malonaldehyde and methylglyoxal, fecapentaenes, endogenous N-nitroso compounds, aromatic hydrocarbons; 2) Development of analytical procedures for the quantitation of the foregoing mutagens in foods and for the quantitation of them and their respective metabolic products present in blood, body fluids and tissues, and feces; and 3) In vitro and in vivo studies relative to the absorption, metabolism, and possible carcinogenicity of selected compounds such as quercetin and the human fecapentaenes. However, full scale animal bioassays will not be supported. The initial project period proposed should not exceed four years. Copies of the complete RFA are available from the Branch Chief.

Deadline:

January 15, 1985

For Further Information Contact:

National Institutes of Health -  
National Cancer Institute  
Division of Cancer Etiology  
Chemical and Physical Carcinogenesis  
Branch  
Chief  
Landow Building, Room 9B01  
7910 Woodmont Avenue  
Bethesda, MD 20205  
(301) 496-5471

(From 1984 ARIS)

**National Institutes of Health - National Cancer Institute RFA - Inter-Institutional Network for Automated Flow Cytometry Research in the Diagnosis and Treatment of Urinary Bladder Cancer**

No. FY85-323

Program:

The NCI is inviting cooperative agreement applications to encourage the rapid development of a state-of-the-art Flow Cytometry Network to serve the diagnostic and treatment needs of bladder cancer patients. The proposed Network of collaborating laboratories will evolve optimum methods for identifying bladder cancer through steps of technique modification and refinement. Flow cytometry will be evaluated for detecting tumor recurrence in bladder cancer patients who are receiving chemical, radiation, or immuno-

therapy, and for monitoring symptomatic patients and high-risk populations. The intent of the RFA is to initiate inter-institutional clinical studies of the urinary bladder among flow cytometry laboratories which are already contributing to cancer research. The required technical expertise, facilities and resources should already exist in an applicant institution. A maximum of five awards will be made for periods of support of up to three years. Copies of the complete RFA are available from Dr. Straile.

Deadline:

January 11, 1985

For Further Information Contact:

National Institutes of Health -  
National Cancer Institute  
Division of Cancer Prevention  
and Control  
Cancer Centers Branch  
William E. Straile, Ph.D.  
Blair Building, Room 727  
8300 Colesville Road  
Bethesda, MD 20205  
(301) 427-8818

(From 1984 ARIS)

**National Institutes of Health - National Heart, Lung, and Blood Institute Miniaturized Transducers for Imaging and Measuring Cardiovascular Structure and Function in Infants and in the Young**

No. FY85-324

Program:

The intent of this program is to encourage research involving externally applied transducers for imaging and measuring cardiovascular structure and function in infants and in the young. Indwelling transducers for use in the young are also of interest. Applications should ideally propose to address a physiological or medical research problem to test and validate the instrumentation. Applications may include human and/or animal studies involving infants, young children, or early development stages.

Deadline:

March 1, July 1 and November 1, 1985

For Further Information Contact:

National Institutes of Health -  
National Heart, Lung, and Blood  
Institute  
Division of Heart and Vascular Diseases  
Devices and Technology Branch  
Alan S. Berson, Ph.D.  
Federal Building, Room 312  
Bethesda, MD 20205  
(301) 496-1586

(From 1984 ARIS)

**National Institutes of Health - National Heart, Lung, and Blood Institute Research Career Development Award in Basic Science Related to the Respiratory System**

No. FY85-326

Program:

The objective of this award is to encourage basic scientists to gain experience in the basic science aspects of pulmonary research. The awards are available for persons whose research potential is apparent, but who need additional experience in a productive scientific environment conducive to the development of a career in independent research. The initiative will encourage scientists in disciplines including, but not limited to, biochemistry, molecular biology, genetics, and immunology to interact with pulmonary researchers in the conduct of pulmonary research. The award will provide five years of research experience to an individual who has a doctoral degree, at least three years of subsequent relevant research or professional experience, and who meets the other eligibility criteria for an RCDA from NIH.

Deadline:

February 1, June 1 and October 1, 1985.

For Further Information Contact:

National Institutes of Health -  
National Heart, Lung, and Blood  
Institute  
Division of Lung Diseases  
Prevention, Education, and Manpower  
Branch  
Joan Wolfe, Ph.D.  
Westwood Building, Room 6A12  
Bethesda, MD 20205  
(301) 496-7668

(From 1984 ARIS)

**Research Corporation  
Cottrell Research Grants**

No. FY85-342

Program:

Support averaging \$10,000 to \$12,000 is available for basic research of originality and importance in the physical sciences at private graduate and all public academic institutions. The emphasis is on assistance for faculty researchers early in their professional careers, but the particularly speculative research of established scientists is also eligible for consideration. Funds may be applied to special equipment and supplies, undergraduate or graduate student summer research fellowships, travel costs, and unusual expenses. A prospective applicant should provide a project description letter to Research Corporation. Forms will be furnished if it appears that an application should be submitted.

For Further Information Contact:

Research Corporation  
Hal H. Ramsey, Ph.D.  
Regional Director - Grants  
6840 East Broadway Boulevard  
Tucson, AZ 85710-2815  
(602) 296-6400

(From 1984 ARIS)

**Sigma Delta Epsilon Graduate Women in Science, Inc. Grants-in-Aid**

No. FY85-337

Program:

Awards of \$750 for one year are available on a competitive basis to women who hold a degree from a recognized institution of higher learning; give evidence of outstanding ability and promise in one of the mathematical, physical or biological sciences; and are currently involved in research or have an approved research proposal. Special consideration will be given to applicants 35 years of age or older. Application information is available by writing to Sigma Delta Epsilon.

Deadline:

February 1, 1985

For Further Information Contact:

Sigma Delta Epsilon Graduate  
Women in Science, Inc.  
9650 Rockville Pike  
Bethesda, MD 20814

(From 1984 ARIS)

**Technicon Instruments Corporation  
Program of Grants for Research in Biomedical and Industrial Instrumentation**

No. FY85-344

Program:

The program purpose is to identify and support significant academic research on novel concepts or technologies in biomedical and industrial instrumentation, which can establish the basis for the development of products with significant commercial value. Both basic and applied research will be considered. Preference will be given to innovative approaches, concepts with important advantages over existing methods, and proposed products which have a breadth of application and market potential commensurate with the costs and risks of the research program. Maximum allowance is \$100,000 per year, with option for one year renewal and, in exceptional cases, renewal for a second time. Preliminary application forms and a description of particular areas of interest to Technicon are available.

For Further Information Contact:

Technicon Instruments Corporation  
Research Grants Program  
Attn: Dr. Marvin Margoshes  
Technical Director  
511 Benedict Avenue  
Tarrytown, NY 10591  
(914) 681-2669

(From 1984 ARIS)

**University Genetics Co. (UGEN)  
Requests for Proposals**

No. FY85-345

Program:

UGEN, a public technology development company, and its industrial affiliates are looking to expand activities in certain areas of genetic engineering and biotechnology. They invite submission of short proposals for development of innovative work in all areas of genetic engineering but particularly related to plant growth and protection (diseases and pathogen resistance, herbicides, growth regulators, pesticides, biological controls, etc.), animal husbandry (vaccines, growth regulators, feed products, etc.), human health, gene probes (viral, bacterial, mammalian), monoclonals, production of pharmaceutical and industrial products, novel industrial chemistry, purification or scale-up processes and inventions pertaining to the aforementioned.

For Further Information Contact:

University Genetics Co. (UGEN)  
Dr. Thomas J. Monahan  
Vice President for Research  
537 Newtown Avenue  
P.O. Box 6080  
Norwalk, CT 06852  
(203) 846-9012

(From 1984 ARIS)

## engineering

See complete information regarding the information circulars listed below under the category of Science.

Argonne National Laboratory  
Faculty Research Leave  
No. FY85-331

Argonne National Laboratory  
Argonne Fellow Program  
No. FY85-332

Technicon Instruments Corporation  
Programs of Grants for Research in Biomedical and Industrial Instrumentation  
No. FY85-344

## general

**The British Council  
Academic Travel Grants**

No. FY85-338

Program:

Grants are made to the staff of universities, polytechnics and similar institutions to cover travel expenses for visits either to or from Britain. If travel expenses are not required, a fixed daily subsistence can be paid. Priority is given to visits which form part of or might lead to a programme of collaboration in research, publication or teaching. Grants can be given for any of the following activities: Joint Research, Joint Publication, Curriculum/Course Development, Student Exchange/Mobility (exploratory visits by staff only), Academic/Professional/Administration staff exchange and development. Support cannot be provided merely for conference attendance but money is available for the promotion of activities such as the design and planning of international seminars/workshops. Application for grants should be made on the standard application form available from the Local British Council Representative.

For Further Information Contact:

H.R. Crooke, OBE,  
Cultural Attache  
British Embassy  
3100 Massachusetts Avenue, NW  
Washington, DC 20008  
(202) 462-1340

(From 1984 ARIS)

**Council for International Exchange of Scholars  
Fulbright Travel Awards to France**

No. FY85-333

Program:

Travel awards are available for lecturing or research in any discipline for a minimum of three years. Preference will be given to candidates with confirmed invitations from French institutions.

Deadline:

February 1, 1985

For Further Information Contact:

Council for International Exchange  
of Scholars  
Eleven Dupont Circle, NW  
Suite 300  
Washington, DC 20036  
(202) 833-4950

(From 1984 ARIS)

## Grace Foundation Inc. Institutional Grants

No. FY85-340

### Program:

Support to tax exempt organizations and institutions (particularly in the communities in which W.R. Grace & Co. and its subsidiaries operate) in higher education, health, science, and social welfare, urban and minority affairs and culture. The Foundation prefers to support organizations which are national in scope. The Foundation's interests in health, science and social welfare include: primary health care facilities which serve the communities in which W.R. Grace & Co. and its subsidiaries operate; major national organizations which relate to minority students; hospitals whose activities are national in scope and/or unique in the care they deliver; major national medical research programs which the Foundation deems vital to the social welfare of the country; major national organizations whose objective is the betterment of the general welfare of society.

### For Further Information Contact:

Grace Foundation Inc.  
William A. Baker  
Vice President  
1114 Avenue of the Americas  
New York, NY 10036  
(212) 819-6316

(From 1984 ARIS)

## Hearst Foundations Grants

No. FY85-334

### Program:

The William Randolph Hearst Foundation and The Hearst Foundation, Inc. make grants to tax-exempt organizations which are not private foundations in the following priority areas of interest: 1) Programs to aid poverty level and minority groups; 2) Traditional education programs at all levels; 3) Traditional health delivery systems and medical research; 4) Traditional cultural programs with records of public support; and 5) Religion. Private sector organizations are generally favored over those receiving primary support from tax dollars, and organizations serving larger geographic areas are generally favored over those of a neighborhood or community nature. "Seed Money" appeals have low priority. A few major grants are approved each year; however, the majority of grants is in the \$5,000 to \$10,000 range. Suggested procedures for grant applications are available from the Foundations.

### Deadline:

January 15, April 15, July 15 and October 15, 1985

### For Further Information Contact:

Hearst Foundations\*  
888 Seventh Avenue, Floor 27  
New York, NY 10106  
(212) 586-5404

\*(for programs headquartered east of the Mississippi)

(From 1984 ARIS)

## NASA - American Society for Engineering Education (ASEE) NASA-ASEE Summer Faculty Fellowships

No. FY85-319

### Program:

In this ten-week summer program, science and engineering faculty members conduct research at NASA research and development centers and nearby universities. Biomedical research is performed at some of the NASA centers. Stipends are \$650 per week with a travel allowance. Application forms and program descriptions for the seven participating research centers are available from the ASEE headquarters at the address given.

### Deadline:

February 1, 1985

### For Further Information Contact:

NASA - American Society for  
Engineering Education (ASEE)  
Eleven Dupont Circle, Suite 200  
Washington, DC 20036  
(202) 745-3616  
(202) 293-7080

(From 1984 ARIS)

## North Atlantic Treaty Organization NATO Advanced Research Workshops

No. FY85-336

### Program:

NATO provides support of approximately \$15,000 for part of direct organizational expenses and for some travel and living expenses of workshop participants. These working meetings enable leading researchers, scientists and engineers to review the state-of-the-art in specific topics in fast moving fields and to formulate recommendations for the future. They are of about five days' duration and attendance of between 20 and 40 persons is usually by invitation only. Scientists wishing to organize a workshop should



contact the NATO office for further information and an application form.

Deadline:

January 15, April 15, July 15 and September 15, 1985

For Further Information Contact:

North Atlantic Treaty Organization  
Scientific Affairs Division  
Advanced Research Workshop  
Director  
B-1110 Brussels  
Belgium  
Tel. (02) 241 44 00

(From 1984 ARIS)

**National Institutes of Health - National Heart, Lung, and Blood Institute Demonstration and Education Research Related to Pulmonary Disease**

No. FY85-325

Program:

The objective of this program is to encourage grant applications for demonstration and education research into significant aspects of lung diseases. The population in which the research would be conducted should be well defined and may include health-care professionals, defined groups within a community, or the general population. Staffing for the research should include relevant professional expertise in disciplines as needed, including medical disciplines, health education, epidemiology, biostatistics, and behavioral and social sciences. Topics which might be investigated in this program include, but are not limited to: Education for cystic fibrosis patients and their parents to enhance their self-management of the disease; examination of the usefulness of peak-flow meters as an adjunct to health education for adult and pediatric asthmatics; and development and evaluation of methods to encourage smoking cessation in those individuals diagnosed as having mild airflow obstruction or with chronic obstructive pulmonary disease.

Deadline:

March 1, July 1 and November 1, 1985

For Further Information Contact:

National Institutes of Health -  
National Heart, Lung, and Blood  
Institute  
Division of Lung Diseases  
Prevention, Education, and Manpower  
Branch  
Sydney Parker, Ph.D., Chief  
Westwood Building, Room 6A12  
Bethesda, MD 20205  
(301) 496-7668

(From 1984 ARIS)

**National Institutes of Health - National Institute on Aging Geriatric Leadership Academic Award**

No. FY85-327

Program:

The NIA has invited academic health centers and other health professional schools to submit applications for the support of leadership activities in the development of research and research training programs in aging. Priority is given to those academic centers or schools with limited activities in aging but which have a strong interest in, and commitment to, expanding their research and training efforts in aging. These awards offer opportunities for supporting start-up or expansion of such activities. A faculty leader is to be the focal point for developing and improving research and teaching in aging. The individual is to provide leadership and coordination, including such activities as encouraging and assisting other faculty members to integrate aging issues into their research and teaching, organizing and conducting studies and courses focused on aging, developing resources for aging research and teaching, and linking related activities among and within various health professional schools. The faculty leader should have demonstrated competence and continuing interest in research and teaching on aging. Awards will be for up to three years, renewable for an additional three years and include: A portion of the salary of the faculty leader and related fringe benefits, up to a maximum of \$40,000; additional costs for the further preparation of the faculty leader in aging (not to exceed the equivalent of one year's training); domestic travel expenses of the faculty leader and a limited number of other faculty members to attend professional meetings and an annual meeting of awardees; limited secretarial support; teaching aids; indirect costs not to exceed 8 percent of the direct costs, exclusive of tuition fees and equipment expenditures; and allowable direct costs not to exceed \$80,000 per year.

Deadline:

February 1, June 1 and October 1, 1985

For Further Information Contact:

National Institutes of Health -  
National Institute on Aging  
Biomedical Research on Clinical Medicine  
Program  
Associate Director  
Building 31, Room 5C09  
Bethesda, MD 20205  
(301) 469-4996  
or  
Behavioral Sciences Research Program  
Associate Director  
Building 31, Room 4C32  
Bethesda, MD 20205  
(301) 496-3136

(From 1984 ARIS)

**National Science Foundation  
Special Research Initiation Awards for New  
Investigators in Information Science  
and Technology**

No. FY85-328

Program:

This program awards to principal investigators who: 1) by the beginning of the award will have earned a Ph.D. in a field related to information science, including the information, computer, cognitive, social and mathematical sciences, linguistics, economics and engineering; 2) will have held the Ph.D. for no more than five years as of the deadline for submission; 3) are citizens of the United States as of the date of submission of the proposals; and 4) have not previously received an award as principal investigators for research in information sciences and technology from an agency of the U.S. Government. In the Information Science Program, a special emphasis is placed on investigations of human information processing, including those aspects of learning, memory, problem solving and pattern recognition that are relevant to information processing principles. This latter emphasis includes a broad range of problem areas extending from research those aspects of information representation which admit some generalization and abstraction from specific biological mechanisms to the human factors of information processing capacity especially in connection with measures and methods of effective performance. The awards will be for one or two years' duration; support will not exceed one person-year of professional salary plus associated costs and project expenses.

Deadline:

February 6 and August 7, 1985

For Further Information Contact:

National Science Foundation  
Division of Information Science and  
Technology  
Dr. Charles Brownstein, Director  
Room 336  
1800 G Street, NW  
Washington, DC 20550  
(202) 357-9572

(From 1984 ARIS)

**National Science Foundation  
Unsolicited Research Proposals**

No. FY85-329

Program:

Programs are offered in the following areas:

Anthropology Program, Dr. John Yellen,  
Program Director, (202) 357-7804, Deadline:  
January 1, 1985.

Developmental Neuroscience Program, Dr. Jean  
Lauder, Program Director, (202) 357-7428,  
Deadline: February 1 and August 1, 1985.

Integrative Neural Systems Program, Dr.  
Nathaniel Pitts, Program Director, (202)  
357-7040, Deadline: August 1, 1985.

Linguistics Program, Dr. Paul Chapin, Program  
Director, (202) 357-7696, Deadline: February  
1 and August 1, 1985.

Memory and Cognitive Processes Program, Dr.  
Joseph Young, Program Director, (202)  
357-9898, Deadline: February 1 and August  
1, 1985.

Molecular and Cellular Neurobiology Program,  
Dr. Joseph S. Colton, Program Director,  
(202) 357-7471, Deadline: January 1 and July  
1, 1985.

Psychobiology Program, Dr. Fred Stollnitz,  
Program Director, (202) 357-7949, Deadline:  
January 1 and July 1, 1985.

Sensory Physiology and Perception Program,  
Dr. James O. Larimer, Program Director,  
(202) 357-7428, Deadline: February 1 and  
August 1, 1985.

Social and Developmental Psychology Program,  
Dr. Jean B. Intermaggio, Program Director,  
(202) 357-9485, Deadline: January 1 and July  
1, 1985.

For Further Information Contact:

National Science Foundation  
Division of Behavioral and Neural  
Sciences  
Richard Louttit  
Division Director  
Room 320  
1800 G Street, NW  
Washington, DC 20550  
(202) 357-7564

(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

American Studies

Schlereth, Thomas J.  
T.J. Schlereth. 1984. Object Knowledge:  
Every Museum Visitor "An Interpreter."

Pages 108-117 in, S.K. Nichols, ed.,  
Museum Education Anthology, 1973-1983:  
Perspectives On Informal Learning, A  
Decade of Roundtable Reports. Museum  
Education Roundtable, Washington, D.C.

#### Core Course

- Neiman, Alven M.  
A.M. Neiman. 1984. On the Role of Philosophy in Boyer and Levine's Common Learning. Perspectives: Journal of the Association for General and Liberal Studies 14(1):8-13.

#### Economics

- Bonello, Frank J.  
F.J. Bonello, T.R. Swartz and W.I. Davisson. 1984. Freshman-Sophomore Learning Differentials: A Comment. The Journal of Economic Education 15(3):205-211.  
Davisson, William I.  
F.J. Bonello, T.R. Swartz and W.I. Davisson. 1984. Freshman-Sophomore Learning Differentials: A Comment. The Journal of Economic Education 15(3):205-211.  
Swartz, Thomas R.  
F.J. Bonello, T.R. Swartz and W.I. Davisson. 1984. Freshman-Sophomore Learning Differentials: A Comment. The Journal of Economic Education 15(3):205-211.

#### English

- Hasley, Louis L.  
L.L. Hasley. 1984. Poem, Sixty-Five. 1984 Anthology of Magazine Verse & Yearbook of American Poetry. Monitor Book Co., Inc., Beverly Hills, California. Page 209.  
Werge, Thomas A.  
T.A. Werge. 1984. John Woolman. American Colonial Writers, 1735-1781. Dictionary of Literary Biography 31:274-290.

#### Program of Liberal Studies

- Youens, Susan L.  
S.L. Youens. 1984. Hugo Wolf and Gottfried Keller: 'Wie glänzt den helle Mond'. The NATS Bulletin 41(1):15-20.

#### Sociology

- Christiano, Kevin J.  
K.J. Christiano. 1984. 'Numbering Israel': The U.S. Census and Religious Organizations. Social Science History 8:341-370.  
K.J. Christiano. 1984. Review of H. McLeod's, Religion and the People of Western Europe, 1789-1970. Sociological Analysis 45:262-264.

- Rochberg-Halton, Eugene W.  
E.W. Rochberg-Halton. 1984. Review of, Having Reasons: An Essay on Rationality and Sociality. Contemporary Sociology 13:785.

#### Theology

- O'Meara, OP, Thomas F.  
T.F. O'Meara. 1984. The Providential Event. Sermon on 450th Anniversary of Birth of Martin Luther. Dialog 23:223-224.

#### COLLEGE OF SCIENCE

#### Biology

- Rai, Karamjit S.  
K.S. Rai and V. Dev. 1984. Genetics of Speciation in the *Aedes* (*Stegomyia*) *scutellaris* group (Diptera: Culicidae) V. Chromosomal Relationships Among Five Species. Genetica 64:83-92.

#### Chemistry

- Fehlner, Thomas P.  
J.C. Vites, C.E. Housecroft, G.B. Jacobsen and T.P. Fehlner. 1984. Cluster Mimetics. 2. The Preparation and Characterization of  $(\mu-H)(\mu-CO)Fe_3(CO)_9BH_2$ ,  $(\mu-CO)Fe_3(CO)_9BH_2^-$ , and  $Fe_3(CO)_9BH_4^-$ . Organometallics 3:1591-1593.  
Housecroft, Catherine E.  
J.C. Vites, C.E. Housecroft, G.B. Jacobsen and T.P. Fehlner. 1984. Cluster Mimetics. 2. The Preparation and Characterization of  $(\mu-H)(\mu-CO)Fe_3(CO)_9BH_2$ ,  $(\mu-CO)Fe_3(CO)_9BH_2^-$ , and  $Fe_3(CO)_9BH_4^-$ . Organometallics 3:1591-1593.  
Jacobsen, Grant B.  
J.C. Vites, C.E. Housecroft, G.B. Jacobsen and T.P. Fehlner. 1984. Cluster Mimetics. 2. The Preparation and Characterization of  $(\mu-H)(\mu-CO)Fe_3(CO)_9BH_2$ ,  $(\mu-CO)Fe_3(CO)_9BH_2^-$ , and  $Fe_3(CO)_9BH_4^-$ . Organometallics 3:1591-1593.  
Neta, Pedatsur  
\*S. Baral, P. Neta and P. Hambright. 1984. Spectrophotometric and Kinetic Studies of the Radiolytic Reduction of Several Pyridylporphyrins and Their Metal Complexes. Radiation and Physics Chemistry 24(4):245-255.  
Vites, Jose C.  
J.C. Vites, C.E. Housecroft, G.B. Jacobsen and T.P. Fehlner. 1984. Cluster Mimetics. 2. The Preparation and Characterization of  $(\mu-H)(\mu-CO)Fe_3(CO)_9BH_2$ ,  $(\mu-CO)Fe_3(CO)_9BH_2^-$ , and  $Fe_3(CO)_9BH_4^-$ . Organometallics 3:1591-1593.

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\*Under the Radiation Laboratory  
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# Mathematics

Pillay, Anand  
A. Pillay. 1984. Regular Types in Non-multidimensional w-stable Theories. Journal of Symbolic Logic 49(3):880-891.

COLLEGE OF BUSINESS ADMINISTRATION

# Marketing Management

Achrol, Ravi S.  
R.S. Achrol and P. Kotler. 1984. Marketing and the Modern Business Environment. Pages 238-242 in, P.E. Anderson and M.J. Ryan, eds., 1984 AMA Winter Educators' Conference: Scientific Method in Marketing. American Marketing Association, Chicago, Illinois.

# RADIATION LABORATORY

Ferraudi, Guillermo J.  
G.J. Ferraudi and D.R. Prasad. 1984. Excited State Redox Properties of Phthalocyanines: Influence of the Axial Ligand on the Rates of Relaxation and Electron-transfer Quenching of the Lowest  $^3\pi\pi^*$  Excited State. Journal of the Chemical Society, Dalton Transaction. Page 2137.  
Huo, Winifred M.  
W.M. Huo. 1984. A Variational Method for the Calculation of Dynamic Polarizabilities and Two-photon Transition Moments. The Dressed Molecule Approach. The Journal of Chemical Physics 81:3407.

## awards received

IN THE MONTH OF NOVEMBER, 1984

Department or Office	Principal	Short title	Sponsor	Dollars Months
AWARDS FOR RESEARCH				
History	N. Hatch, A. Valicki	Indiana Visiting Professorship	Lilly Endow. Inc.	20,000 12
Microbiology	M. Fennewald	Investigation of Inhibitors of Site-Specific Recombination	Natl. Inst. Health	103,795 12
Microbiology	P. Klebba	Immunoassay Procedures for Small Molecular Weight Natural Products	Chevron Chem. Co.	8,800 6
Chemistry	F. Castellino	Blood Coagulation Protein-Metal Ion-Lipid Interaction	Natl. Inst. Health	153,985 12
Physics	S. Ruggiero	Electron Transport Studies in Synthetic Metal Superlattices	Research Corp.	13,000 12
Metallurgical Eng.	T. Kosel	Microstructural Effects in Abrasive Wear	Dept. Energy	75,052 12
Microbiology	C. Kulpa	Pilot Plant Studies	Occidental Chem. Corp.	3,417 4
Chemistry	A. Serianni	Biologically-Important Furanosyl Rings	Natl. Inst. Health	61,940 12
AWARDS FOR INSTRUCTIONAL PROGRAMS				
Medieval Inst.	R. McInerny	Aquinas/Platonism	Natl. Endow. Humanities	235,159 27
AWARDS FOR SERVICE PROGRAMS				
Inst. Past. Soc. Min.	R. Pelton	Notre Dame Institute for Clergy Education	---	11,203 --
Inst. Past. Soc. Min.	S. Kelly	Program for Church Leaders	---	1,944 --
Inst. Past. Soc. Min.	J. Melloh	Notre Dame Center for Pastoral Liturgy	---	3,327 --
Inst. Past. Soc. Min.	J. Melloh	Notre Dame Center for Pastoral Liturgy - Publications	---	908 --

Chemical Eng.	R. Schmitz	Symposium on Chemical Reactor Stability and Dynamics	Natl. Sci. Fdn.	3,000 7
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#### AWARDS FOR OTHER PROGRAMS

Aerospace Mech. Eng.	T. Mueller	Conference on Low Reynolds Number Airfoil Aerodynamics	Natl. Aero. Space Admin.	7,732 12
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## proposals submitted

IN THE MONTH OF NOVEMBER, 1984

Department or Office	Principal	Short title	Sponsor	Dollars Months
PROPOSALS FOR RESEARCH*				
Biology	M. Fraser	Transposon Mutagenesis of NPV	Natl. Sci. Fdn.	345,453 36
Biology	M. Fraser	Transposon Mutagenesis of NPV	Natl. Inst. Health	108,689 12
Mathematics	R. Lockhart	Laplacians on Non-compact Manifolds	Natl. Sci. Fdn.	50,739 36
Psychology	M. McDaniel	Encoding Effort and Memory: Toward a Unifying Theory	Natl. Inst. Health	70,643 24
Mathematics	R. Boyce	Characters of Finite Groups of Lie Type	Natl. Sci. Fdn.	29,567 24
Chemistry	A. Lappin	Optically Active Redox Reagents	North Atlantic Treaty Organ.	3,000 24
Mathematics	G. Roberts	Operators with Multiple Characteristics	Natl. Sci. Fdn.	31,642 24
Psychology	J. Borkowski, J. Day	Enhancing Academic Success of Hispanic Children	Herman Goldman Fdn.	313,665 36
Metallurgical Eng.	A. Miller, C. Crowell	Interactive Videodisc Training Chemical Safety Manager/Employees	Intl. Bus. Machines	137,107 12
Advanced Studies	W. Berry	Minority High School Research Apprentice Program for 1985	Natl. Inst. Health	9,282 12
Metallurgical Eng.	A. Miller, C. Crowell	Devel. of a Videodisc Database Management System	Intl. Bus. Machines	94,340 6
Biology	S. Sheldon, S. Carpenter	Freshwater Macrophyte Communities	Natl. Sci. Fdn.	52,800 24
Mathematics	A. Hahn	Unitary Groups and Unitary K-Theory	Natl. Sci. Fdn.	45,310 24
Earth Sciences	E. Winkler	The Effect of Acid Rain on Weathering Rates of Marbles and Limestones	Calif. Air Resources Board	156,428 24
Microbiology	M. Clancy	Gene Expression in Sporulating Yeast	Natl. Sci. Fdn.	72,316 12
Chemical Eng.	E. Wolf	Transient MS-FITR Studies of Catalytic Oxidation Reactions	Natl. Sci. Fdn.	284,126 36
Biology	P. Grimstad	Ecology of Vectors of Jamestown Canyon Virus	Natl. Inst. Health	77,098 12
Chemical Eng.	M. McCready	Characterization of Turbulent Mass Transfer	Amer. Inst. Chem. Engrs.	40,239 12
Chemical Eng.	M. McCready	Characterization of Waves in Horizontal Gas-Liquid Flows	Natl. Sci. Fdn.	120,890 24

\*Does not include a \$14,824,934 proposal to NSF for a Hazardous Wastes Engineering Research Center.

Aerospace Mech. Eng.	K.T. Yang	Requisition for Computer Time on Purdue CYBER-205	Natl. Sci. Fdn.	7,475 24
College Eng.	P. Antsaklis, J. Kantor	Robust Control Design	Dept. Energy	356,137 36
College Eng.	P. Antsaklis, J. Kantor	Robust Control Design	Natl. Sci. Fdn.	356,137 36
Biology	F. Goetz	Hormone Levels in Teleost Fish	North Atlantic Treaty Organ.	2,922 6
Electrical Eng.	Y.F. Huang	Time-Sharing Estimation Using Convex Set Theory	Natl. Sci. Fdn.	124,030 24
Metallurgical Eng.	A. Miller, C. Crowell	Failure Analysis Videodisc Database	Intl. Bus. Machines	35,435 6
Psychology	T. Whitman	Studies to Evaluate the Effectiveness of Self-instructional Training	Cattell Fund	18,000 8
Prog. Lib. Studies	F. Power	Character Development	Dept. Education	237,779 36
Prog. Lib. Studies	F. Power	Development of the Written Moral Atmosphere Survey	William T. Grant Fdn.	43,149 16

PROPOSALS FOR FACILITIES AND EQUIPMENT

University Libraries	G. Sereiko, S. Geiger	Preservation of the Edward L. Greene Collection on Botany	Dept. Education	74,776 12
Civil Eng.	A. Jennings	Dynamic Permeameter	Natl. Sci. Fdn.	29,250 12

PROPOSALS FOR INSTRUCTIONAL PROGRAMS

Psychology	J. Borkowski, T. Whitman	Research Training in Mental Retardation	Natl. Inst. Health	41,393 8
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PROPOSALS FOR OTHER PROGRAMS

English	J. Dougherty	Lilly Endowment Faculty Open Fellowship 1985-86	Lilly Endow., Inc.	52,145 12
Biology	T. Crovello	Lilly Endowment Faculty Open Fellowship 1985-86	Lilly Endow., Inc.	73,797 12
School Architecture	S. Hurtt	Lilly Endowment Faculty Open Fellowship 1985-86	Lilly Endow., Inc.	51,209 9
History	G. Hamburg	Faculty Research Abroad	Dept. Education	29,715 6
College Arts Letters	J. Butterfield, C. Sanz	Doctoral Dissertation Research Abroad	Dept. Education	15,065 12

## summary of awards received and proposals submitted

IN THE MONTH OF NOVEMBER, 1984

AWARDS RECEIVED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	3	232,454	5	207,535	8	439,989
Facilities and Equipment	0	0	0	0	0	0
Instructional Programs	0	0	1	235,159	1	235,159
Service Programs	0	0	5	20,382	5	20,382
Other Programs	0	0	1	7,732	1	7,732
Total	3	232,454	12	470,808	15	703,262

PROPOSALS SUBMITTED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	2	86,380	26	3,138,018	28	3,224,398*
Facilities and Equipment	0	0	2	104,026	2	104,026
Instructional Programs	1	41,393	0	0	1	41,393
Service Programs	0	0	0	0	0	0
Other Programs	0	0	5	221,931	5	221,931
Total	3	127,773	33	3,463,975	36	3,591,748*

\*Does not include a \$14,824,934 proposal to NSF for a Hazardous Wastes Engineering Research Center.

## 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
SOCIAL SCIENCES			
FY85-343	Spencer Foundation	Education Research Grants	February 1, 1985
SCIENCE			
FY85-330	Alcoholic Beverage Medical Research Foundation	Research Grants	February 1, 1985
FY85-335	North Atlantic Treaty Organization	Advanced Study Institutes Programme	January 15, 1985
FY85-320	National Institutes of Health - National Cancer Institute	Medical Imaging for Diagnosis and Treatment of Cancer	March 1, 1985
FY85-321	National Institutes of Health - National Cancer Institute	Prediction of Tumor Response to Radiation Therapy	March 1, 1985
FY85-322	National Institutes of Health - National Cancer Institute	RFA - Cooperative Group for Studies on Mutagens in Human Foods	January 15, 1985
FY85-323	National Institutes of Health - National Cancer Institute	RFA - Inter-Institutional Network for Automated Flow Cytometry Research in the Diagnosis and Treatment of Urinary Bladder Cancer	January 11, 1985
FY85-324	National Institutes of Health - National Heart, Lung, and Blood Institute	Miniaturized Transducers for Imaging and Measuring Cardiovascular Structure and Function in Infants and in the Young	March 1, 1985
FY85-326	National Institutes of Health - National Heart, Lung, and Blood Institute	Research Career Development Award in Basic Science Related to the Respiratory System	February 1, 1985
FY85-337	Sigma Delta Epsilon Graduate Women in Science, Inc.	Grants-in-Aid	February 1, 1985
GENERAL			
FY85-333	Council for International Exchange of Scholars	Fulbright Travel Awards to France	February 1, 1985
FY85-334	Hearst Foundations	Grants	January 15, 1985
FY85-319	NASA - American Society for Engineering Education (ASEE)	NASA-ASEE Summer Faculty Fellowships	February 1, 1985
FY85-336	North Atlantic Treaty Organization	NATO Advanced Research Workshops	January 15, 1985
FY85-325	National Institutes of Health - National Heart, Lung, and Blood Institute	Demonstration and Education Research Related to Pulmonary Disease	March 1, 1985
FY85-327	National Institutes of Health - National Institute on Aging	Geriatric Leadership Academic Award	February 1, 1985
FY85-328	National Science Foundation	Special Research Initiation Awards for New Investigators in Information Science and Technology	February 6, 1985
FY85-329	National Science Foundation	Unsolicited Research Proposals	Various: Refer to Information Circular

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## notre dame report

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