

# notre dame report

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84-85

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number 11

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# faculty notes

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## honors

Thomas P. Bergin, dean of continuing education and professor of management, has been named to the board of directors of the Indiana Endowment for the Arts. The five-member board administers foundation funds on behalf of arts programs in Indiana.

David M. Betson, assistant professor of economics, has been appointed by the Assistant Secretary for Planning and Evaluation of the U.S. Department of Health and Human Services to chair an advisory panel on the department's multi-regional policy analysis modelling project.

An "Introduction to the New Testament" (Garden City: Doubleday, 1983) by Rev. Raymond F. Collins, John A. O'Brien visiting professor of theology, has been selected as the February offering of the Religious Book Club.

Anne Carson Daly, assistant professor of English, has been appointed to the board of trustees of the Manresa Educational Corporation.

James W. Kamman, assistant professor of aerospace and mechanical engineering, has been selected as a recipient of the 1985 Ralph R. Teeter Educational Award given by the Society of Automotive Engineers.

Eugene C. Ulrich, associate professor of theology, was re-elected editor of the Bulletin of the International Organization for Septuagint and Cognate Studies for 1985-87 at the meeting of the Society for Biblical Literature in Chicago, Dec. 8-11.

## activities

Karl Ameriks, professor of philosophy, gave an invited lecture titled "Idealistic Critiques of Kant" to the department of philosophy at Washington University, St. Louis, Mo., Dec. 13.

Sangchul Bang, assistant professor of civil engineering, presented a paper titled "Limit Equilibrium Stability Analysis of Spilling Soil Reinforcement in Tunneling" at the 64th Transportation Research Board meeting, Washington, D.C., Jan. 15.

Stephen M. Batill, associate professor of aerospace and mechanical engineering, and Thomas L. Doligalski, assistant professor of aerospace and mechanical engineering, are co-authors of a paper titled "Three-Dimensional, Unsteady Vortex Loop Dynamics," which was presented at the AIAA 23rd Aerospace Sciences Meeting in Reno, Nev., Jan. 14-17.

Rev. David B. Burrell, C.S.C., professor of philosophy and theology, gave an Aquinas Lecture titled "Some Achievements of Thomas Aquinas" at Aquinas College, Grand Rapids, Mich., Jan. 27.

Rev. James T. Burtchaell, C.S.C., professor of theology, gave a lecture, "On the Inadequacy of Law to Accomplish its Purposes" at the University of Texas School of Law, Jan. 31, and taught at the U.S. Navy Education and Training Center, Newport, R.I., Feb. 4-5.

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Stephen A. Fredman, assistant professor of English, presented a paper, "This World of Robert Creeley's," at a panel devoted to Creeley's writing during the Modern Language Association annual convention in Washington, D.C. Dec. 29.

Dolores Warwick Frese, associate professor of English, chaired two sessions and led the discussion on "Literary History and Literary Biography: Their Implications for the Teaching of Literature" at the annual meeting of the Modern Language Association in Washington, D.C., Dec. 29. She also presided as Chair of the Executive Committee for the MLA Division on the Teaching of Literature during the annual meeting of the Committee.

Umesh Garg, assistant professor of physics, presented an invited paper titled "Giant Resonances in  $^{90}\text{Zr}$  Using 35 MeV/A  $^{14}\text{N}$  Ions" at the International Conference on Nuclear Physics, Bombay, India, Dec. 27-31. Dr. Garg was awarded a travel grant by the Office of International Programs, National Science Foundation, to attend the conference.

Teresa Ghilarducci, assistant professor of economics, is coauthor with Lawrence C. Marsh, associate professor of economics, of a paper titled "Theoretical Issues of Exact Matching," which was presented at the American Statistical Association meetings in Philadelphia, Pa., Aug. 19. She also delivered a lecture titled "Union Control of Pension Plans" at the International Union of Bricklayers leadership conference at Notre Dame and gave a presentation on "The 1984 Contract Vote: Why Is UMWA Losing Bargaining Power?" for the Appalachia Labor School at the West Virginia Institute of Technology, Montgomery, W. Va., Oct. 22. She appeared as a guest on the Flo Kennedy Show, an interview program broadcast on cable television in New York City Jan. 16.

Denis Goulet, O'Neill professor of education for Justice and in the Kellogg Institute, presented a course on "Interdisciplinary Research and Participation in Development" to the faculty of education at the Universidad Autonoma de Yucatan, Merida, Mexico, Jan. 4-17. The course was funded by an Academic Specialist Grant from the United States Information Agency.

Kwan S. Kim, associate professor of economics and faculty fellow in the Kellogg Institute, was an invited lecturer at a workshop on Industrial Policies and Industrialization in Developing Countries, held at the Delft Research Institute for Industrial Management, The Netherlands, in November, and coauthored a paper titled, "Capital Goods Development in Mexico -- Current Situation and Prospects," presented at the Allied Social Science conference in Dallas, Tex., Dec. 29.

Stephen R. Lundeen, associate professor of physics, delivered a physics department colloquium titled "The Search for Casimir Forces in Atomic Helium" at the University of Windsor, Ontario, Nov. 29; at the University of Washington, Seattle, Jan. 7; and at the University of British Columbia, Vancouver, Jan. 10. He also delivered an atomic and molecular physics seminar, "Observations of High Angular Momentum Rydberg States of  $\text{H}_2$ " at the Argonne National Laboratory, Physics Division, Jan. 17.

Rev. George Minamiki, S.J., assistant professor of modern and classical languages, presented a paper on "Manchuria and the Question of the Chinese Rites in the 1930's" at a session titled "A 400-Year Debate: The Problem of Cultural Accommodation in the Catholic Church in China," part of the 65th annual meeting of the American Catholic Historical Association, held in Chicago, Dec. 28-30.

Kenneth E. Moore, chairman and associate professor of anthropology, served as chairman of a session titled "Anthropology in Urban Settings" at the annual meeting of the American Anthropology Association, Denver, Colo., Nov. 14-18. He also served as discussant for a session titled "Overview of Urban Theory and Method" at that meeting.

Victor W. Nee, professor of aerospace and mechanical engineering, recently returned from an extended trip to Taipei, Taiwan, where he presented the following lectures: "Structure Safety Monitoring System," presented at a Modern Engineering and Technology Seminar held at the Grand Hotel Dec. 18-27; "Recent Advances in Turbulent Shear Flow Research," presented at the National Taiwan Institute of Technology Dec. 25; and "Turbulent Heat Transfer in a Wake After a Two-Dimensional Trailing Edge," presented at Tatung University Jan. 4.

Robert C. Nelson, associate professor of aerospace and mechanical engineering, presented an invited paper titled "Flow Visualization of High Angle of Attack Vortex Wake Structures" at the 22nd Aerospace Sciences Meeting in Reno, Nev., Jan. 14-17.

Alvin Plantinga, John A. O'Brien professor of philosophy, read a paper on "Justification" at Syracuse (N.Y.) University Jan. 18.

Jean Pec Rosenberg, assistant librarian, gave a presentation titled "Retrospective Conversion: Past and Future, or Once your Bibliographic Records are Converted to Machine-Readable Form, then What?" to the Retrospective Conversion Discussion Group of the Resources and Technical Services Division and the Library and Information Technology Association, Information Science and Automation Section, at the midwinter convention of the American Library Association held in Washington, D.C., Jan. 5-10.

Thomas J. Schlereth, professor of American Studies, conducted the research seminar on "Material Culture Explanation" in the symposia series, "New Modes of Historical Inquiry" sponsored by Indiana University and the National Endowment for the Humanities, and held in Indianapolis Dec. 8.

Roger A. Schmitz, McCloskey dean of engineering and professor of chemical engineering, presented a graduate seminar on "Catalytic Reaction Dynamics -- the Use of Infrared Imaging Techniques" at Texas A&M University, College Station, Jan. 18 as part of the Lindsay Lecture Series in the department of chemical engineering.

J. Eric Smithburn, professor of law, delivered a lecture titled "Judicial Discretion and the Indiana Trial Court Judge" at the Indiana Judicial Conference sponsored by the Indiana Judicial Center, Indianapolis, Jan. 25. He delivered a lecture titled "Recent Developments in Child Custody Law" to 175 faculty members and graduate students in law, clinical psychology and educational psychology at the University of Louisville, Ky., Feb. 4.

Kern Trembath, postdoctoral teaching associate in theology, gave a presentation titled "Biblical Inspiration: The Bible As Means of Salvation," to the North Bay Circuit, California District of the Lutheran Church-Missouri Synod, Fairfield, Calif., Jan. 8.

Robert P. Vecchio, chairman and professor of management, chaired a paper session titled "Recruitment, Selection, and Training" at the national meeting of the American Institute for Decision Sciences, Toronto, Ont., Nov. 6.

Rev. James F. White, professor of theology, participated in the annual meeting of the North American Academy of Liturgy, Philadelphia, Pa., Jan. 2-5, and gave lectures on "Christian Sacraments" at the Eastern Pennsylvania Conference Pastors' School Jan. 21-23.

## deaths

Robert D. Nuner, 67, associate professor emeritus of modern and classical languages, Dec. 30.

# administrators' notes

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## appointments

Two women who have been serving as acting directors of University departments have been named directors by Rev. David T. Tyson, C.S.C., vice president for student affairs. Evelyn Reinebold has been named director of student residences and will supervise the housing of more than 6,100 men and women in campus residence halls. Joni D. Neal has assumed the direction of the Office of Student Activities where she has served the last two years as assistant and acting director.

Daniel G. Reagan, '76 has been named director of the annual fund for the Department of Development. He will supervise all yearly support programs, including the Sorin Society, parents' giving and corporation matching gifts. He previously was in development work for Archbishop Hoban High School in Akron, Ohio, and the University of Akron.

## honors

Edwin B. Harris, associate director of financial aid, has been nominated for the American Association of University Administrators Foundation's Leo and Margaret Goodwin-Malamuth Award, which recognizes excellence of a contribution made by a new Ph.D. whose research has focused on the administration of higher education. His dissertation focused on the institutional self-study component of the regional accreditation process in the United States.

Pat A. Leonardo, assistant director of admissions, has been appointed to the executive board of the Catholic College Coordinating Council.

Dean A. Porter, director of the Snite Museum of Art, has been appointed to the board of trustees for the Intermuseum Laboratory, Oberlin (Ohio) College.

## activities

Don Bishop, assistant director of admissions, gave a presentation on "The Admissions View of the Financial Aid Office" at the Indiana State Financial Aid Association meeting in Indianapolis Dec. 6-7.

# documen- tation

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## minutes of the 211th graduate council meeting october 31, 1984

Board Room 121, Hayes-Healy Center

The meeting began at 3:30 p.m. on October 31, 1984. Deans Frank K. Reilly and Roger A. Schmitz were represented by Mr. Larry Ballinger and Dr. William B. Berry respectively. Other members who were absent and excused were Dr. Julia F. Knight and Dr. James P. Kohn.

### I. Minutes of the 210th Meeting

The minutes of the 210th Meeting were approved as circulated.

### II. Admission to Degree Candidacy

The Council approved the list of applicants for graduate degree candidacy for graduation in 1985.

### III. Graduate School Admission and Enrollment

The Chairman invited Dr. James H. Powell to report on admission to the Graduate School for the Fall of 1984. Dr. Powell introduced tables containing statistics for various stages in the application process (from application to confirmation) for the Graduate School and also broken down by division and department. Copies of the material were made available to Council members at the beginning of the meeting. He pointed out some salient points in these tables. The total number of applications received for Fall 1984 admission was 1,751, as compared to 1,724 for Fall 1983 and 1,583 for Fall 1982. Of the 1,751 applications in 1984, 1,522 came from degree applicants and 229 from non-degree applicants. Although we accepted as many as 792 of the 1,751 applicants, or 45.2%, it should be noted that among the degree applicants only 37.6% were accepted. Non-degree applicants, on the other hand, were accepted at the rate of about 96%.

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For Spring 1985 admission, the number of applications received as of October 31 shows a small increase over the previous spring at a comparable date (i.e., 120 vs. 107). The same thing is true of applications for Fall 1985 (94 vs. 81).

Dr. Powell spoke of the efforts that had been made to recruit students. These included the mailing of Graduate School Bulletins of Information and posters, participation in graduate forums in metropolitan areas, visits to some minority institutions of good standing, advertising through Peterson's Annual Guides and Graduate School Guide, and subscription to the Minority Locator Service. Dr. Powell reported extensive updating of our mailing lists and the availability of address labels for interested departments. He stressed the fact, however, that the Graduate Admissions Office only supports and supplements the efforts of departments in student recruitment. He reiterated the point that recruitment does not end with the department's acceptance of an applicant and that there must be persistent follow-up until the applicant confirms his/her intention to come to Notre Dame.

Discussion followed on various aspects of the report. One member noted that we had admitted foreign students so far without any special effort on our part to recruit them. He wondered whether more active recruitment of foreign students (e.g., from Canada or South America) would be in order. Another member said that some recruitment of foreign students was being attempted in some departments. The use of foreign alumni was also suggested. The next issue was how to improve the several "conversion ratios" in the application process, starting with the number of bulletins and posters we distribute in relation to the number of inquiries we receive, and these in relation to the actual number of applications; the number of acceptances in relation to confirmations; and, finally, confirmations in relation to enrolled students. In response to a member's question, Dr. Powell offered suggestions as to what Departments and the Graduate School might do with regard to maximizing yields at each of the decision points.

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Dr. Chau Le then began his report of graduate enrollment for the Fall of 1984. He referred the Council to the statistical tables that had been distributed. He noted that the total enrollment of 1,341 represented a small increase of 0.8% over the Fall of 1983. He reported that total enrollment had increased every year at a steady rate since 1980. The average annual rate of change for the period was +3.8%. Total enrollment in the U.S., comparison, increased at a slower pace of 0.5% during the same period.

In the Fall of 1984, there were more graduate students (+10), degree students (+36), Ph.D. students (+31), Master's students (+5), full-time students (+8) and foreign students (+9) than the year before. On the other hand, the number of ethnic minority students was the same and there were fewer women in 1984 than in 1983.

In contrast to the steady increase in total enrollment, first-year enrollment at Notre Dame fluctuated more significantly in the last five years. Year-to-year change ranged from +15% in 1980 to -6% this year. On the average, however, first-year enrollment increased at an average annual rate of 4% between 1980 and 1984 (+0.1% in the U.S.).

Dr. Le drew attention to some significant changes in first-year enrollment in some departments. American Studies enrolled 11 new students in 1984, as compared to 3 in 1983; Philosophy 15 (9 in 1983). On the other hand, English enrolled 13 (21 in 1983); Music 6 (13 in 1983); Government 9 (19 in 1983); Chemistry 17 (24 in 1983); Electrical Engineering 11 (24 in 1983).

In the discussion that followed, one member asked why there had been such changes in first-year enrollment in the departments. Various reasons were suggested, namely the availability of support slots, library resources, quality of applicants, etc. Another member inquired whether GRE scores of our students are holding while there has been a declining trend in national scores. Comparison of GRE scores between Notre Dame and the U.S. shows:

	<u>Verbal</u>	<u>Quantitative</u>
<u>US (1981-84)</u>	472	505
<u>Notre Dame</u>		
1979-80	571	601
1980-81	567	600
1981-82	569	601
1982-83	568	600
1983-84	559	604
<u>5-Year Mean</u>	567	601

#### IV. Chairman's Remarks

1. Use of word processors or computers in typing theses and dissertations: The Graduate School has sent a memorandum to departments to confirm the use of word processors and computers "as long as (the thesis or dissertation) follows the same presentation and format, and the type of print is of comparable quality and clarity. The type size should 10 point or larger and the print should be black and the characters consistently clear and dense." The use of Macintosh printers is acceptable only if high quality print in the Geneva style 12-point type is used.

2. Taxation of Graduate Assistants: The Chairman related the lobbying efforts of CGS and AAU Boards to repeal certain provisions in the Deficit Reduction Act of 1984, passed by Congress, which make tuition remission granted to Graduate Assistants subject to taxation. The Chairman reported that these efforts had been successful. It was expected that President Reagan would sign a bill reversing the earlier action of the Congress and again making tuition remission for Graduate Assistants non-taxable. (In fact, the President signed the new Act on October 31, 1984.) The Chairman further reported that the tax-free status of employer-paid educational benefits had been reinstated through 1985, but these benefits had been capped at \$5,000.

3. Library hours during the holidays (December 22 through January 1): The Chairman announced the dates and hours when the Branches and the Library would be open during the holidays. Details of this announcement would be published in the next issue of the Notre Dame Report.



4. English as an option for foreign students in fulfilling the Foreign Language Requirement: The Chairman reported that although English had been approved by the Graduate Council as an option for foreign students whose native language is not English, departments are free to determine whether they wish to make this option available to their students. The Department of Mathematics, for instance, has decided not to allow this option. The Chairman also reported the problems that the Graduate School has experienced in implementing this decision with regard to students from such countries as India and the Philippines.

5. The State of Higher Education in the U.S.: The Chairman noted that recently, there had been a rash of reports on the state of higher education in the U.S. and a return to quality considerations. Of note among these is the report of the Mortimer Study Group entitled "Involvement in Learning: Realizing the Potential of American Higher Education" (the full text was published in the Chronicle of Higher Education on October 24). The report contains 27 recommendations, several of which are pertinent to graduate schools.

e.g., "To balance the specialization of graduate training in the disciplines, graduate departments should require applicants for admission to present evidence of a broad undergraduate liberal arts education" (Recommendation 21)

"Graduate deans and department chairs should develop ways of helping prospective faculty in all disciplines (1) to learn about the history, organization, and culture of American higher education and (2) to develop their understanding of teaching and learning" (Recommendation 22)

6. The Graduate Faculty: In revising the Faculty Handbook, the Academic Council has decided to delete the distinction between faculty and graduate faculty. All references to the "Graduate Faculty" in the Handbook have been removed. As a result of the Academic Council action, we will now have an integrated, unified teaching-and-research faculty in this University. While the Graduate School will continue to be responsible for monitoring the appointments of faculty to various graduate-level functions (e.g., directing theses and dissertations, chairing graduate examinations, etc.), the responsibility of the departments with regard to faculty assignment will be greater than ever before.

7. Master of Architecture Program: The Academic Council has accepted the recommendation of the Graduate Council to approve the establishment of the Master of Architecture program contingent on the confirmation of commitments from donors. If funds are received in time, the program may begin in the Fall of 1985.

8. The Oral Candidacy Examination: The Chairman referred to a letter from a faculty member who had questioned the use of the oral candidacy examination as a proposal defense. About half of the department representatives on the Council indicated that their departments use the oral candidacy to assess the dissertation proposal and probe the student's readiness for research in the chosen field. This practice should not, however, restrict the questioning at the examination exclusively to the proposal. The examiners, including the chairman of the examination board, can ask questions appropriate to the background of the student's proposal and also to his or her discipline. The chairman of the examination should also act to prevent any attempt on the part of an examiner to answer a question that should be answered by the candidate himself. While recognizing that various academic cultures admit various practices, it is common in science and engineering, and it is becoming less rare in the social sciences and the humanities, to encourage students to begin research as early as possible.

9. New degree programs: The Chairman reported that ideas for some new degree programs (Biotechnology program, Master of Liberal Arts program) were being considered in the University.

10. Status of various Jesse H. Jones funds in support of faculty research: For equipment, \$50,000 has been allocated (February 1, 1985 deadline); for faculty research, \$85,000 (January 16, 1985 deadline). To support faculty research travels, \$15,000 has been budgeted (rolling deadline). Of this latter fund, \$3,600 has been committed to date to faculty in Anthropology, English, Government and Modern Languages. In 1983-84, a total of \$11,793 was spent for support of research travel.

11. Status of the Zahm Research Travel Fund for graduate students: To date, \$6,631 has been spent of an allocation of \$11,000 (rolling deadline). Grants have been made to students in the departments of Biology, English, History, Microbiology and Music, ranging from \$310 to \$2,000. The most recent honor bestowed on a Zahm awardee was cited: Mary L. Jaynes (Biology) received the "Best Student Paper" award at the 1984 North American Lake Management meeting.

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12. Council of Graduate Schools: The Chairman reported on the efforts of the CGS to make an input on the reauthorization of the Higher Education Act which will include provisions affecting student support (e.g., Guaranteed Student Loan Program). Early in December, Father Hesburgh will address the CGS at its annual meeting in Washington, D.C. The list of other speakers includes Secretary Terrel H. Bell; President Steven Muller of Johns Hopkins; Chancellor John B. Slaughter of Maryland; Dr. Eric Block, NSF Director; Dr. John V. Byrne, Administrator of the National Ocean and Atmospheric Administration and President Designate of Oregon State University.

V. Other Business

There was no other business.

The Chairman adjourned the meeting at 4:45 p.m.

# 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.

## humanities

### American Jewish Archives Marguerite R. Jacobs Memorial Postdoctoral Award in American Jewish Studies

No. FY85-406

Program:

One award of \$2,000 for two months of active research or writing at the American Jewish Archives between the months of June and August is available to postdoctoral candidates.

Deadline:

April 1, 1985

For Further Information Contact:

American Jewish Archives  
Abraham J. Peck, Director  
3101 Clifton Avenue  
Cincinnati, OH 45220  
(513) 221-1875

(From 1985 ARIS)

### Commission of the European Communities Grants for Research into European Integration 1985-86

No. FY85-407

Program:

Twenty grants of a maximum of 4,500 ECU will be awarded to young university teachers at the start of their careers who, individually or as a team, are doing research work on European integration. Three grants will be reserved for historical research on the origins of European integration. Applicants should not be over 40 years of age and the awards are not renewable. The Commission may assist with the costs of publishing work.

Deadline:

March 31, 1985

For Further Information and Application  
Forms Contact:

European Community Information Service  
Suite 707  
2100 M Street, NW  
Washington, DC 20037  
(202) 862-9500

(From 1985 ARIS)

## social sciences

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

American Jewish Archives  
Marguerite R. Jacobs Memorial Postdoctoral  
Award in American Jewish Studies  
No. FY85-406

Commission of the European Communities  
Grants for Research into European Integration  
1985-86  
No. FY85-407

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

ADAMHA - National Institute on Alcohol Abuse  
and Alcoholism or ADAMHA - National Institute  
on Drug Abuse  
Community Prevention Research in Alcohol and  
Drug Abuse  
No. FY85-398

ADAMHA - National Institute of Mental Health  
Grants for Research on Mental Illness in  
Nursing Homes  
No. FY85-399

Centers for Disease Control  
Research and Demonstration Grants  
No. FY85-400

## science

### American Cancer Society Research Professorships

No. FY85-402

#### Program:

Grants are offered to assist in creating faculty or equivalent positions on a full-time basis for investigators who have made outstanding contributions pertinent to cancer research. Institutions of higher learning in the U.S. and its territories are eligible to nominate investigators who must be or have declared intention to become U.S. citizens, have at least five years of experience beyond the doctoral degree, and have research experience and interest in the basic biological sciences and/or clinical research. The grant will provide salary to the research professor not to exceed two-thirds of the basic salary for an indeterminate period subject to review every five years.

Deadline:  
March 1, 1985\*

#### For Further Information Contact:

American Cancer Society  
Personnel Research Grants  
Dr. Louis Muschel  
90 Park Avenue  
New York, NY 10016  
(212) 599-8200

\*Interested individuals must contact the ACS directly for guidelines and application forms. The activation date for all awards with a March 1 deadline date is January 1.

(From 1985 ARIS)

### ADAMHA - National Institute on Alcohol Abuse and Alcoholism or ADAMHA - National Institute on Drug Abuse Community Prevention Research in Alcohol and Drug Abuse

No. FY85-398

#### Program:

The goal of this research is to encourage rigorous scientific study of substance abuse prevention technologies at multiple levels in the community (e.g., individual, small group, family, parent groups, community boards) in order to determine their efficacy in preventing the onset of both alcohol and drug use and patterns of abuse. Application characteristics include the following: Applications are expected to study multiple intervention strategies targeted at a specific population group. The proposed project must involve at least two of the following: the family, media, schools, natural social support groups, community organizations and relevant health care providers. Further, it is recommended, and priority will be given, to projects which include at least one intervention in each of the areas of behavior change and community development as described below. The research must be designed to allow for the assessment of individual intervention strategies as well as their combined effects at the community level. Inclusion of previously tested program components is encouraged. In addition, the design and testing of innovative program approaches is also encouraged where appropriate to the research hypotheses being tested and the target populations included in the study design. It is expected that proposed research will examine interventions that prevent the use/abuse of both alcohol and drugs. Given the complex nature of substance abuse prevention research, an interdisciplinary research team is recommended. Potential applicants are encouraged to seek preapplication consultation.

Deadline:  
March 1, July 1 and November 1, 1985

For Further Information Contact:

ADAMHA - National Institute on  
Alcohol Abuse and Alcoholism  
or  
ADAMHA - National Institute on Drug  
Abuse  
Parklawn Building  
5700 Fishers Lane  
Rockville, MD 20857  
(301) 443-4223 or 433-1514

(From 1985 ARIS)

**ADAMHA - National Institute of Mental Health  
Grants for Research on Mental Illness in  
Nursing Homes**

No. FY85-399

Program:

The National Institute of Mental Health through the Center for the Studies of the Mental Health of the Aging seeks grant applications for research which will increase knowledge and improve research methodology on emotional, social, behavioral, and mental disorders of residents in nursing homes; will generate information regarding the interplay of biological, behavioral, genetic, and social processes underlying these disorders and the maintenance of mental health among nursing home residents; and will increase knowledge of mental health services and practices. The research may employ theoretical, laboratory, clinical, methodological, and field studies and may involve noninstitutional elderly subjects as well as residents of nursing homes.

Deadline:

March 1, July 1 and November 1, 1985

For Further Information Contact:

ADAMHA - National Institute of  
Mental Health  
Center for the Studies of the  
Mental Health of the Aging  
Mary S. Harper, Ph.D., RN or  
Barry Lebowitz, Ph.D.  
Parklawn Building, Room 11C-03  
5600 Fishers Lane  
Rockville, MD 20857  
(301) 443-1185

(From 1985 ARIS)

**Centers for Disease Control  
Research and Demonstration Grants**

No. FY85-400

Program:

The NIOSH has announced the availability of funds in FY 1985 for research project grants, demonstration grants, special emphasis research career award (SERCA) grants (direct

costs of maximum \$30,000 per year), small grants (direct costs of maximum \$15,000 intended for junior scientists), and program project grants. Examples of work-related programmatic interest to NIOSH are the following: 1) Occupational lung diseases; 2) Musculoskeletal injuries; 3) Occupational cancers (other than lung); 4) Amputations, fractures; 5) Cardiovascular diseases; 6) Disorders of reproduction; 7) Neurotoxic disorders; 8) Noise-induced loss of hearing; 9) Dermatologic conditions; 10) Psychologic disorders; 11) Control technology research; and 12) Respirator research. Grants are usually funded for 12 months in project periods of up to five years or two years for small grants.

Deadline:

February 1, March 1\*, June 1, July 1, October 1 and November 1, 1985

For Further Information Contact:

Centers for Disease Control  
National Institutes for Occupational  
Safety and Health  
Grants Administration and Review Branch  
Roy M. Fleming, Sc.D., Chief  
Building 1, Room 3053  
1600 Clifton Road, NE  
Atlanta, GA 30333  
(404) 329-3343  
(for technical information)

Leo A. Sanders, Chief  
Grants Management Branch Procurement  
and Grants Office, CDC  
255 E. Paces Ferry Road, NE  
Room 107A  
Atlanta, GA 30305  
(404) 262-6575  
(for business information)

\*Small grants and SERCA grants have deadline cycles of February 1, June 1 and October 1. The program project grant applications will be accepted only after consultation with the contact persons listed.

(From 1985 ARIS)

**Department of Agriculture  
Competitive Research Grants Program**

No. FY85-405

Program:

Applications are invited for additional competitive grant awards under the Competitive Research Grants Program for Fiscal Year 1985.

Standard grants and a small number of continuation grants will be awarded to support basic research in the following additional program areas: Biotechnology, animal science, insect pest science, acid precipitation, soybean research, and alcohol fuels research.

**Deadline:**

March 1, 1985 - Biotechnology  
March 1, 1985 - Animal Science  
March 1, 1985 - Insect Pest Science  
March 22, 1985 - Acid Precipitation  
March 22, 1985 - Soybean Research  
March 22, 1985 - Alcohol Fuels Research

**For Further Information Contact:**

Grants Administrative Management  
Attn: Proposals Services Unit  
Office of Grants of Program Systems  
U.S. Department of Agriculture  
Room 010, West  
Auditor's Building  
15th & Independence Avenue, SW  
Washington, DC 20251  
(202) 475-5049

**Harbor Branch Institution  
Fellowships**

No. FY85-410

**Program:**

Seven postdoctoral fellowship positions are available in fall 1985 for research in estuarine lagoon and nearshore continental shelf waters. Research areas include zooplankton biology, invertebrate reproduction and development, benthic community ecology, fish ecology and behavior, sedimentary processes, biogeochemistry, physical oceanography, and macroalgal biology. Stipends are \$19,000.

**Deadline:**

April 1, 1985

**For Further Information Contact:**

Harbor Branch Institution  
Dr. Kevin J. Eckelbarger  
Postdoctoral Program  
RR 1, Box 196-A  
Ft. Pierce, FL 33450

(From 1985 ARIS)

**The Johns Hopkins Center for Alternatives to  
Animal Testing  
Grants**

No. FY85-411

**Program:**

The Center is soliciting research proposals on the fundamental knowledge base to develop alternative methods to whole animals for the safety evaluation of commercial products. The Center is specifically interested in the use of human cells and tissues. Funds are available for studies of skin and eye irritation, inflammation, acute toxicity, and other organ specific toxicity. At the present time

funds are unavailable for mutagenicity and carcinogenicity. Grants will normally be funded up to a maximum of \$20,000 per year including 15 percent overhead or actual costs, whichever is less. All grants will be on a yearly basis with continuation possible.

**Deadline:**

May 30, 1985\*

**For Further Information Contact:**

The Johns Hopkins Center for  
Alternatives to Animal Testing  
Joan S. Poling  
Secretary to the Director  
Room 2306  
School of Hygiene and Public Health  
615 North Wolfe Street  
Baltimore, MD 21205-2167  
(301) 955-3343

\*An abstract is due by March 30.

(From 1985 ARIS)

**NASA  
Interdisciplinary Research Program in  
Earth Science**

No. FY85-408

**Program:**

The major goal of this new program is to investigate long-term coupled physical, chemical, and biological changes in the Earth's environment on a global scale (atmosphere, land, and oceans). Because current available funding is modest (a few million dollars per year), NASA has decided to initially restrict research to the following three areas: 1) a program of research to understand the origins and consequences of the recently discovered increasing trend in the atmospheric concentration of methane; 2) a land-surface climatology program which is aimed at understanding the extent to which changes are taking place in climatologically important properties of the land surface; and 3) an ocean basin scale carbon flux program which will develop a better understanding of the magnitude, variability, and fate of carbon fluxes in the oceans on an ocean-basin to global scale. Support will be provided for periods of maximum three years.

**Deadline:**

March 31, 1985

**For Further Information Contact:**

NASA  
Interdisciplinary Research Program  
Dr. Robert T. Watson  
Code EE  
Washington, DC 20546  
(202) 453-1681

(From 1985 ARIS)

## Natural Sciences and Engineering Research Council of Canada International Scientific Exchange Awards

No. FY85-404

### Program:

This program is intended to provide financial assistance to a limited number of foreign scientists and engineers for visits to Canadian academic institutions and research laboratories. The fields of research supported through NSERC awards currently include, but are not limited to: agriculture, astronomy, biology, biotechnology, chemistry, computing and information science, engineering, food science, forestry, geology, kinesiology, materials sciences, mathematics, nuclear science, oceans, physics, psychology, space research, statistics, and others. The health sciences, per se, are not included. The awards consist of a monthly allowance to the Canadian host department to contribute towards accommodation and living expenses while in Canada. Support will normally be limited to visits lasting from one month (minimum) to one year. Candidates must be of foreign nationality, based in a recognized institution in their home countries, and expect to return abroad after their stay in Canada. They must normally possess a doctoral degree and/or the academic qualifications and research experience analogous to those held by NSERC grantees. Candidates cannot apply directly to NSERC, but must be nominated by a Canadian researcher. The nomination must be endorsed by the host institution. An application for an award is made by the submission of NSERC form 115, Application for an International Scientific Exchange Award, accompanied by a Personal Data (form 100) for the host scientist.

### Deadline:

March 1 and October 15, 1985

### For Further Information Contact:

National Sciences and Engineering  
Research Council of Canada  
200 Kent Street  
Ottawa, Canada K1A 1H5  
(613) 995-5992

(From 1985 ARIS)

## National Science Foundation Cooperative Science Program

No. FY85-401

### Program:

The following NSF programs are presented to scientists in the biomedical research community who are interested in basic biological research. Please be advised that NSF does not normally support research in clinical medicine. Proposals are accepted for joint

research, seminars, and long-term research visits to the following countries.

Austria, Deadline: March 1 and September 15, 1985.

Federal Republic of Germany, Deadline: March 1 and September 15, 1985.

Denmark, the Netherlands and Norway, Deadline: March 1 and September 15, 1985.

Finland, Deadline: March 1 and September 15, 1985.

Sweden, Deadline: March 1 and September 15, 1985.

United Kingdom: April 1 and September 1, 1985.

### For Further Information Contact:

National Science Foundation  
Directorate for Scientific,  
Technological, and International  
Affairs  
Division of International Programs  
Industrial Countries Section  
1800 G Street, NW  
Washington, DC 20550

(From 1985 ARIS)

## Office of Naval Technology/American Society for Engineering Education (ASEE) 1985 Postdoctoral Fellowship Program

No. FY85-409

### Program:

The ASEE, as the agent for the Office of Naval Technology, will award approximately 40 postdoctoral appointments for one year, renewable, for research at participating Naval laboratories. Participants must be U.S. citizens with a Ph.D., Sc.D. or other earned research doctoral degree recognized in U.S. academic circles as equivalent to the Ph.D. This degree must have been awarded within seven years of the date of fellowship application. Stipends start at \$29,000, depending on experience. A relocation allowance and funds for limited professional travel will also be provided. An application booklet and description of the research at each participating laboratory can be obtained from the ASEE.

### Deadline:

April 1, July 1, October 1, 1985 and January 1, 1986

### For Further Information Contact:

Office of Naval Technology/American  
Society for Engineering Education  
(ASEE)  
Projects Office  
11 Dupont Circle, Suite 200  
Washington, DC 20036  
(202) 293-7080

(From 1985 ARIS)

## engineering

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

Department of Agriculture  
Competitive Research Grants Program  
No. FY85-405

## general

### The American Association for the Advancement of Science 1985 Summer Environmental Science and Engineering Fellowships

No. FY85-412

#### Program:

In cooperation with EPA, the AAAS will select ten fellows who will spend ten weeks (June 10 - August 16, 1985) working as special research consultants with the Office of Research and Development of the EPA. Each fellow will conduct an environmental research project on a topic of mutual interest to him or her and the EPA. Some specific areas of interest to EPA include the development of methods for testing the health and environmental effects of chemicals, acid deposition, and drinking water contamination. Prospective fellows are expected to be post-doctoral to mid-career professionals, show exceptional competence in a relevant professional area, have a rather broad professional background, and have a strong interest and some experience in applying scientific or other professional knowledge toward the identification and assessment of future environmental problems. Persons may apply from any physical, biological, or behavioral science field, any field of engineering, or any other relevant professional field. The stipend is \$600 per week plus nominal relocation and travel expenses.

#### Deadline:

March 1, 1985

#### For Further Information Contact:

The American Association for the  
Advancement of Science  
Patricia S. Curlin  
Environmental Science and Engineering  
Fellows Program  
1776 Massachusetts Avenue, NW  
Washington, DC 20036  
(202) 467-4310

(From 1985 ARIS)

### Council for International Exchange of Scholars Fellowships for College and University Administrators: Fulbright Program with the United Kingdom

No. FY85-397

#### Program:

These awards are made available to provide opportunities for administrators to broaden their professional perspectives and enhance cross-cultural skills and insights. Applications will be accepted from individuals working in any of the following major functional areas administered in a four-year or graduate institution: (1) Instruction and public service; (2) Business and financial management; (3) Student and academic support services; and (4) Institutional development, including fund raising, public relations, and alumni relations. Administrators who are responsible for research management are not eligible, nor will projects which are research oriented and are not primarily for purposes of administrative exchange be considered. Applications must hold U.S. citizenship and have a minimum of five years continuous administrative service. Grants are for a minimum period of three months; preference will be given to projects of six months or less, but projects requiring nine months will be considered. Particularly welcome are proposals which have a pragmatic bearing on issues of common concern to administrators in the US and UK. Projects may be single purpose or comparative in scope; they may be investigative or operational in focus. Each project will need to be linked with an office affiliated within the formal administrative structure of a British university.

#### Deadline:

March 15, 1985

#### For Further Information and Applications Forms Contact:

Council for International Exchange  
of Scholars  
Attn: "US/UK Academic Administrators"  
Program  
11 Dupont Circle, Suite 300  
Washington, DC 20036  
(202) 833-4969

### The Hastings Center Visiting Scholar Program

No. FY85-403

#### Program:

This program is available to those who have advanced degrees and can fully support their own expenses while doing research at the Hastings Center. It is intended to allow senior scholars the opportunity to do independent research at the Center for brief



periods of time (usually one week to a month, occasionally longer) and to participate in the Center's activities.

For Further Information Contact:

The Hastings Center  
Gloria Bergmann  
360 Broadway  
Hastings-on-Hudson, NY 10706  
(914) 478-0500

(From 1985 ARIS)

## current publications and other scholarly works

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

### COLLEGE OF ARTS AND LETTERS

#### English

Vasta, Edward

E. Vasta. 1984. The Devil in Chaucer's  
Reeve. American Notes and Queries 22:  
126-128.

#### Government and International Studies

Leege, David C.

D.C. Leege and J. Stagl. 1984. Abendland-  
siche Welt-Bilder: Erdteile und Men-  
schenrassen auf zwei Titeltupfern des  
17. und 18. Jahrhunderts. Pages 251-267  
in, H. Braun and A. Hahn, eds., Schriften  
zur Kulturosoziologie, Dietrich Reimer  
Verlag, Berlin.

#### Music

Cramer, Craig J.

C.J. Cramer. 1984. Solo Recital. Sacred  
Heart Church, University of Notre Dame,  
Notre Dame, Indiana.  
C.J. Cramer and R. Hawkins. 1984. Recital.  
First Lutheran Church, Mishawaka, Indiana.  
C.J. Cramer. 1984. Solo Recital. Trinity  
Episcopal Church, Toledo, Ohio.

#### Philosophy

Kirkham, Richard L.

R.L. Kirkham. 1984. Does the Gettier  
Problem Rest on a Mistake? Mind. Pages  
501-513.

McMullin, Ernan

E. McMullin. 1984. The Goals of Natural  
Science, APA Presidential Address. Pro-  
ceedings of American Philosophical Asso-  
ciation 58:37-64.

E. McMullin. 1984. A Case for Scientific  
Realism. Pages 8-40 in, J. Leplin, ed.,  
Scientific Realism, University of  
California Press, Berkeley, California.

#### Psychology

Santos, John F.

J.F. Santos, R.W. Hubbard, J.L. McIntosh  
and H.R. Eisner. 1984. Community Mental  
Health and the Elderly: Service and  
Training. Volume 12, pages 359-368 in,  
S. Murrill, ed., Journal of Community  
Psychology, Special Issue.

#### Sociology

Christiano, Kevin J.

K.J. Christiano. 1984. Review of R.J.  
Bord and J.E. Faulkner's, The Catholic  
Charismatics: The Anatomy of a Modern  
Religious Movement. Journal for the  
Scientific Study of Religion 23:422-423.

### COLLEGE OF SCIENCE

#### Biology

Diffley, Peter

P. Diffley and J.O. Scott. 1984. Immuno-  
logical Control of Chronic Trypanosoma  
brucei gambiense in Outbred Rodents.  
Acta Tropica 41:335-342.

#### Chemistry

Gellene, Gregory I.

G.I. Gellene and R.F. Porter. 1984.  
Observations of Excited Metastable and  
Radiative States of He<sub>2</sub>, Ne<sub>2</sub>, and Ar<sub>2</sub> by  
Neutralized Ion-Beam Spectroscopy.  
High Temperature Science 17:171.

George, Manapurathu V.

\*B.B. Lohray, C.V. Kumar, P.K. Das and M.V.  
George. 1984. Photochemical and Thermal  
Transformations of 2(3H)-Furanones and  
Bis(benzofuranones). A Laser Flash  
Photolysis Study. Journal of the Ameri-  
can Chemical Society 106:7352.

Thomas, J. Kerry

B.H. Milosavljevic and J.K. Thomas. 1984.  
Photochemistry of Compounds Adsorbed in  
Cellulose. 3. Kinetic Effects of Matrix  
in the Quenching of Excited Ru(bpy)<sub>3</sub><sup>2+</sup>  
by Chromium(III) Ion. Macromolecules  
17(11):2244-2248.

#### Mathematics

Smyth, Brian B.

B.B. Smyth and A.J. Sommese. 1984. On  
the Degree of the Gauss Mapping of a  
Submanifold of an Abelian Variety.  
Commentarii Mathematici Helvetici 59(3):  
341-346.

Sommese, Andrew J.

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the Degree of the Gauss Mapping of a

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\*Under the Radiation Laboratory  
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### Physics

- Bunker, Bruce A.  
B.A. Bunker, S.M. Heald and J. Tranquada.  
1984. EXAFS Investigations of Fe-Implanted Si Using a Grazing-Incidence X-ray Beam and Fluorescence Detection. Page 482 in, K.O. Hodgson, B. Hedman and J.E. Penner-Hahn, eds., Proceedings of the III International EXAFS Conference, Stanford, California, Springer-Verlag, New York.
- Cushing, James T.  
J.T. Cushing. 1984. But, Who Will Publish a Sane Introductory Physics Text? American Journal of Physics 52:1069-1071.

### COLLEGE OF ENGINEERING

#### Aerospace and Mechanical Engineering

- Lee, Lawrence, H.N.  
Z.Q. Huang and L.H.N. Lee. 1984. Dynamic Necking of an Elastic-Plastic Cylinder under Uniaxial Stretching. International Journal of Solids Structures 20(9/10): 897-909.
- Lucey, John W.  
T. Miller, J.W. Lucey and A.E. Miller. 1984. Interactive Videodisc Technology in the Engineering Curriculum. Frontiers in Education Conference Proceedings, Philadelphia, Pennsylvania. Pages 648-652.

#### Civil Engineering

- Jennings, Aaron A.  
F.E. Otte and A.A. Jennings. 1984. The Physical Consequences of Acid Reactions with Soil. Pages 176-185 in, J.D. Martin, ed., Proceedings of the Fifth Annual Indiana Water Resources Symposium, Bloomington, Indiana.

#### Electrical Engineering

- Antsaklis, Panagiotis J.  
P.J. Antsaklis and M.K. Sain. 1984. Feed-back Controller Parameterizations: Finite Hidden Modes and Causality. Chapter 5, pages 85-104 in, S.G. Tzafestas, ed., Multivariable Control: New Concepts and Tools, D. Reidel Publishing Company, Dordrecht, Holland.
- Sain, Michael K.  
P.J. Antsaklis and M.K. Sain. 1984. Feed-back Controller Parameterizations: Finite Hidden Modes and Causality. Chapter 5, pages 85-104 in, S.G. Tzafestas, ed., Multivariable Control: New Concepts and Tools, D. Reidel Publishing Company, Dordrecht, Holland.
- B.F. Wyman and M.K. Sain. 1984. A Unified Pole-Zero Module for Linear Transfer Functions. Systems and Control Letters 5(2):117-120.

### Metallurgical Engineering and Materials Science

- Miller, Albert E.  
T. Miller, J.W. Lucey and A.E. Miller. 1984. Interactive Videodisc Technology in the Engineering Curriculum. Frontiers in Education Conference Proceedings, Philadelphia, Pennsylvania. Pages 648-652.

### COLLEGE OF BUSINESS ADMINISTRATION

#### Accountancy

- Morris, Michael H.  
M.H. Morris, W.D. Nichols and J.W. Pattillo. 1984. Capitalization of Interest, Materiality Judgement Divergence and Users' Information Needs. Journal of Business Finance and Accounting 11(4):547-555.
- Nichols, William D.  
M.H. Morris, W.D. Nichols and J.W. Pattillo. 1984. Capitalization of Interest, Materiality Judgement Divergence and Users' Information Needs. Journal of Business Finance and Accounting 11(4):547-555.

### CENTER FOR THE STUDY OF MAN IN CONTEMPORARY SOCIETY

#### Center for Gerontological Education, Research, and Services

- Hubbard, Richard W.  
J.F. Santos, R.W. Hubbard, J.L. McIntosh and H.R. Eisner. 1984. Community Mental Health and the Elderly: Service and Training. Volume 12, pages 359-368 in, S. Murrill, ed., Journal of Community Psychology, Special Issue.
- R.W. Hubbard. 1984. Clinical Issues in the Supervision of Geriatric Mental Health Trainees. Educational Gerontology 10: 317-323.

### O'NEILL CHAIR IN EDUCATION FOR JUSTICE

- Goulet, Denis A.  
D.A. Goulet. 1984. Morality and Economics: The Bishops Speak. A Report on Religion 4(3):7-8.
- D.A. Goulet. 1984. Development Images and Strategies: The Values at Stake, the Keynote Address of the Cornell Conference on Ethics in International Development. Proceedings of the Conference on Ethics in International Development, Cornell University, Ithaca, New York. Pages 9-25.
- D.A. Goulet. 1984. A Final Commentary. Proceedings of the Conference on Ethics in International Development, Cornell University, Ithaca, New York. Pages 46-49.

# RADIATION LABORATORY

Das, Paritosh K.  
P. Umrigar, G.W. Griffin, S.N. Ege, A.D. Adams and P.K. Das. 1984. Reactive Intermediates in the Photochemistry of 4-diazo-2-pyrazolin-5-ones. Canadian Journal of Chemistry 62:2456.  
C.V. Kumar, P.K. Das, W.I. O'Sullivan, S.N. Ege and G.W. Griffin. 1984. A Laser Flash Photolysis Study of Some Aromatic Ketoepoxides. Characterization of Ylides and their Precursors. Journal of the Chemical Society, Perkin Transcript 2:1745.

B.B. Lohray, C.V. Kumar, P.K. Das and M.V. George. 1984. Photochemical and Thermal Transformations of 2(3H)-Furanones and Bis(benzofuranones). A Laser Flash Photolysis Study. Journal of the American Chemical Society 106:7352.  
Ebbesen, Thomas W.  
T.W. Ebbesen, L.E. Manring and K.S. Peters. 1984. Picosecond Photochemistry of Methyl Viologen. Journal of the American Chemical Society 106:7400.  
Previtali, Carlos M.  
C.M. Previtali. 1984. Laser Flash Photolysis of Indole in the Presence of Amino Acids. Photochemistry and Photobiology 40:689.

## closing dates for selected sponsored programs

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

Information Circular Number	Agency	Programs	Application Closing Dates
HUMANITIES			
FY85-406	American Jewish Archives	Marguerite R. Jacobs Memorial Post-doctoral Award in American Jewish Studies	April 1, 1985
FY85-407	Commission of the European Communities	Grants for Research into European Integration 1985-86	March 31, 1985
SCIENCE			
FY85-402	American Cancer Society	Research Professorships	March 1, 1985
FY85-398	ADAMHA - National Institute on Alcohol Abuse and Alcoholism or ADAMHA - National Institute on Drug Abuse	Community Prevention Research in Alcohol and Drug Abuse	March 1, 1985
FY85-399	ADAMHA - National Institute on Mental Health	Grants for Research on Mental Illness in Nursing Homes	March 1, 1985
FY85-400	Centers for Disease Control	Research and Demonstration Grants	March 1, 1985
FY85-405	Department of Agriculture	Competitive Research Grants Program	March 1, 1985
FY85-410	Harbor Branch Institution	Fellowships	April 1, 1985
FY85-411	The Johns Hopkins Center for Alternatives to Animal Testing	Grants	May 30, 1985
FY85-408	NASA	Interdisciplinary Research Program in Earth Science	March 31, 1985
FY85-404	Natural Sciences and Engineering Research Council of Canada	International Scientific Exchange Awards	March 1, 1985
FY85-401	National Science Foundation	Cooperative Science Program	March 1, 1985
FY85-409	Office of Naval Technology/ American Society for Engineering Education (ASEE)	1985 Postdoctoral Fellowship Program	April 1, 1985
GENERAL			
FY85-412	The American Association for the Advancement of Science	1985 Summer Environmental Science and Engineering Fellowships	March 1, 1985
FY85-397	Council for International Exchange of Scholars	Fellowships for College and University Administrators: Fulbright Program with the United Kingdom	March 15, 1985

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## notre dame report

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