

# notre dame report

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## contents

### the university

- 177 American Catholic Studies  
Competition
- 177 New Tornado Warning System

### faculty notes

- 178 Appointments
- 178 Honors
- 179 Activities

### documentation

- 181 Assistant Provost for  
Computing
- 181 Faculty Senate Journal  
October 6, 1981
- 184 Faculty Committee for University  
Libraries Minutes October 13, 1981
- 185 Additions and Corrections to ND  
Report No. 4

### advanced studies

- 136 Information Circulars  
--(No. FY82-158)  
through
- 193 --(No. FY82-185)
- 193 Current Publications and Other  
Scholarly Works
- 195 Monthly Summary  
-Awards Received  
-Proposals Submitted
- 197 Summary of Awards Received and  
Proposals Submitted
- 197 Closing Dates for Selected  
Sponsored Programs

81-82

November 27, 1981

number 6

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# the university

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## american catholic studies competition

A national competition to select the best manuscript in American Catholic studies has been renewed for 1982, announced the Center for Study of American Catholicism at the University. Author of the winning manuscript will receive a \$500 award and a publishing contract with the University of Notre Dame Press.

Manuscripts must be pertinent to the study of the American Catholic experience and may be from the historical or social studies disciplines. Unrevised dissertations are not considered.

The award-winning book will be part of a series, Notre Dame Studies in American Catholicism. Two copies of the manuscript must be received by the Center for the Study of American Catholicism, Memorial Library, Notre Dame, Ind. 46556, by September 1, 1982, to be eligible for competition.

## new tornado warning system

A new Tornado Warning Siren has been installed at the University and incorporated into both the St. Joseph County Civil Defense system and the National Weather Alert Service. The present system, using University security squad cars, will be discontinued. The system is tested at 11:30 a.m. on the first and third Thursdays of each month. Siren tests consist of a one-minute steady tone, one minute of silence and a one-minute wailing tone. The first test is scheduled for Thursday, Dec. 3. The St. Joseph County Civil Defense Tornado Warning system will activate the siren atop the North Dining Hall. For actual tornadoes, the siren will issue a steady tone for 3 to 5 minutes. Safety rules in the event of a tornado warning are as follows:

- A) Take shelter in the nearest substantial building immediately.
- B) Go to the basement or to an interior corridor.
- C) Avoid windows, large rooms, auditoriums, or gymnasiums.

The siren will not issue an "all clear." This signal comes from the Weather Bureau via radio or television.

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# faculty notes

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## appointments

James Cushing, professor of physics, has been appointed assistant chairman for graduate studies in physics.

Walter R. Johnson, professor of physics and a faculty member for 23 years, has been named acting chairman of that department, effective immediately, and chairman, effective next September.

Michael J. Loux, professor of philosophy, has been appointed chairman of his department, succeeding Prof. Cornelius Delaney.

Walter J. Nicgorski, associate professor and chairman of the General Program of Liberal Studies, has been reappointed chairman of the department.

Richard A. Spencer, a systems analyst at the University with 18 years of experience in the data automation field, has been named by the provost to the newly created position of assistant provost for computing.

## honors

Theodore J. Crovello, professor and chairman of biology, has accepted an invitation to serve as advisor to the International School of Vegetation Studies centered at the University of Western Ontario.

Michael J. Francis, chairman and professor of government and international studies, has been named as a consulting editor for the Handbook of Latin American Studies which is published by the Hispanic Foundation of the United States Library of Congress. He will deal with the international relations of South America.

Robert E. Gordon, vice president for advanced studies, has been elected to a four-year term to the Board of Directors of the Council of Graduate Schools in the United States. Gordon's term on the board begins in January 1982.

Stephen M. Hayes, associate librarian, has been appointed chairperson of the Acquisitions and Bibliographic Control Workgroup of the Federal Documents Task Force, a unit of the American Library Association. He has also been elected member at large to the executive council of the Indiana Conference of the American Association of University Professors.

Kenneth Milani, associate professor of accountancy, continues as a Trustee of the American Taxation Association, and was appointed Newsletter Editor of the Public Interest Section of American Accounting Association.

Kevin M. Misiewicz, associate professor of accountancy, was appointed to the Editorial Review Board of The Accounting Review for 1981-82.

Pedatsur Neta, senior scientist in the Radiation Laboratory and associate faculty fellow in chemistry, was among the 205 chemists and 1000 scientists whose works were most frequently cited during the period 1965-1978, as reported in the October 12 issue of Current Contents. Dr. Neta's works were cited in various scientific publications 2,460 times during this 14-year period.

William A. O'Rourke, assistant professor of English, has been awarded a fellowship from the National Endowment for the Arts which will permit him to set aside time for writing, research or travel. One of 204 recipients selected from more than 2,600 applicants, O'Rourke joined the Notre Dame faculty this year after teaching at Mount Holyoke College in South Hadley, Mass. He is a specialist in fiction writing.

Kenneth F. Ripple, professor of law, was reappointed to a new term on the Committee on the Federal Constitution of the New York Bar Association.

Norlin G. Rueschhoff, associate professor and chairman of accountancy, has been appointed to the International Practices Executive Committee of the American Institute of Certified Public Accountants.

Leonard M. Savoie, professor of accountancy, has been appointed chairman of the Steering Committee for a research project on "Termination of Facilities" sponsored by the Financial Executives Research Foundation, for which he is a member of the Board of Trustees. He has also been re-elected to a second two-year term as a Director-at-Large on the National Board of Directors of Accountants for the Public Interest. In addition, he has been elected a director of Money Mart Assets, Inc., New York, an open-end Money Mart Investment Company.

Roger A. Schmitz, dean of engineering, is the recipient of the 1981 R.H. Wilhelm Award from the American Institute of Chemical Engineers (AIChE). Presentation of the award, sponsored by the Mobil Oil Corp., was Nov. 9 during the AIChE four-day annual meeting in New Orleans. Schmitz received the award for his theoretical and experimental work in the areas of chemical reactor stability and dynamics, and kinetic oscillations. The award includes a certificate and \$1,500 honorarium.

## activities

Frank J. Bonello, associate professor of economics, presented a paper entitled "Providing Students with a Menu of Learning Techniques" at the Illinois Economic Association meeting in St. Louis, Mo., on Oct. 30.

George B. Craig, Jr., Clark Professor of biology, presented an invited paper entitled "The Vector Potential of Mosquito Production of Tire Retards" at the annual meeting of American Society of Tropical Medicine and Hygiene held in San Juan, Puerto Rico, Nov. 15-21. Dr. Craig also serves on the Governing Board of this society.

Theodore J. Crovello, professor and chairman of biology, presented two papers at the annual meeting of the Indiana Academy of Science at Wabash College, Crawfordsville, Ind., Nov. 6: "Doctor Armen Takhtajan's Classification of Floristic Regions of the World," and "Phylogenetic Relationships among Genera of the Thelypodieae" (with Larry Hauser).

Jay P. Dolan, associate professor of history and director of the Cushwa Center for the Study of American Catholicism, acted as chairman and commentator at a session of the annual meeting of the American Italian Historical Association which was held in St. Paul, Minn., on Oct. 29-31.

Astrik L. Gabriel, director emeritus of the Medieval Institute, gave an illustrated lecture entitled "The Illuminated Initials of the IXth to Xth Century Manuscripts Written in Bobbio, Italy" to the International Committee on Paleography at their biannual meeting held in the Bavarian Academy of Sciences, München, Sept. 17.

Moirae Geoffrion, assistant professor of art, delivered a talk on her work and on "The Concerns of the Contemporary Craftsman-networking and Collectors" at the Mid-America College Art Association meetings in Milwaukee, Wis., Oct. 16. She completed a five-panel weaving for the Pasquerilla East Chapel which was installed on Nov. 6. Geoffrion also entered one drawing and one sculpture in the Indianapolis Art League show, "Constructions: Hard and Soft," Indianapolis, Ind., which opened Nov. 6.

John A. Halloran, assistant professor of finance and business economics, served as a discussant at the Annual Meeting of the Financial Management Association in Cincinnati, Ohio, on Oct. 21-23.

Stephen M. Hayes, associate librarian, chaired the meeting and presented the findings of the Study Committee on Documents Collection Development and Collection Evaluation Policies and Procedures at the annual conference of the American Library Association, San Francisco, Calif., June 26-July 2.

A. Murty Kanury, associate professor of aerospace and mechanical engineering, presented a paper entitled "Flash Point Physics" at the Fall Technical Meeting of the Combustion Institute Eastern Section, held at Carnegie-Mellon University, Pittsburgh, Pa., on Oct. 7. At the same meeting, he also chaired a technical session entitled "Room Fire Modeling."

Ronald T. Libby, visiting assistant professor of government and international studies, presented a paper entitled "Corporate Power in an African State: Zambia Re-examined" at the 1981 meeting of the African Studies Association held in Bloomington, Ind., Oct. 20-24.

Sheridan P. McCabe, director of the Counseling Center and associate professor of psychology, presented a paper on "Moral Reasoning" at a meeting of the Inter-University Committee on Research and Policy Studies at Catholic University of America, Washington, D.C., Oct. 30-Nov. 1.

Jerome L. McElroy, associate professor of economics, presented a paper on "Agricultural Policy and Rural

Resurgence in the U.S. Virgin Islands," at the 12th Institute for International Development and Cooperation Conference on Rural Development and Retention of the Rural Population in the Countryside of Developing Countries, held at the University of Ottawa, Oct. 29-31. He presented a workshop on "Estimating Tourism's Quantitative Impacts in the U.S. Virgin Islands," at the International Development Research Centre, Ottawa, Canada, Sept 28-29.

Ralph McInerny, director of the Medieval Institute and Grace Professor of Medieval Studies, talked on "Maritain: The Person and the Common Good," at Gannon University, Erie, Pa., on Oct. 29.

William D. Nichols, assistant professor of accountancy, presented a talk entitled "What's New for the Auditor, the Employer and the Pension Plan?" at the Michigan Association of CPA's, University of Michigan Fall Accounting Conference in Ann Arbor, on Oct. 1.

Morris Pollard, chairman and professor of microbiology and director of Lobund Laboratory, served as Professor Ordinarius in the Faculty of Medicine, Katholieke Universiteit Leuven, Belgium. He delivered a lecture on "Cancer Metastasis" at Riga Instituut, Catholic University, Leuven, Belgium, Oct. 13. He also gave invited lectures on "Experimental Studies on the Problem of Tumor Metastasis" at the Bayer Institute of Oncology, Wuppertal, Oct. 19, on "Development and Use of Tumor Model Systems in Laboratory Animals" at the Medical School of Hannover University, West Germany, Oct. 20, and "Development and Use of a Model System for Intestinal Cancer," on Oct. 27.

Gregory A. Schirmer, assistant professor of English, served as commentator on a panel entitled "The Work of Seamus Heaney" at the Irish Studies section of the South Atlantic Modern Language Association annual convention, Louisville, Ken., on Nov. 7.

Thomas J. Schlereth, associate professor of American Studies, delivered a paper, "The Cultural History Paradigm in Regional Material Culture Studies," at the national meeting of the American Studies

Association held in Memphis, Tenn., Oct. 30-Nov. 1. Schlereth also participated in a panel on "Teaching the American City."

Samuel Shapiro, associate professor of history, delivered a talk, "Background to Revolution," at Central America Emphasis Week, "Conflict in Central America: Implications for North American Christians," at Goshen College, Goshen, Ind., on Nov. 16.

J. Eric Smithburn, associate professor of law, was on the teaching faculty at the Sixth Annual Federal Trade Commission Trial Advocacy Program, sponsored by the National Institute for Trial Advocacy (NITA), Washington, D.C., Oct. 28-30.

Kenneth R. Thompson, assistant professor of management, represented the College of Business Administration and chaired a session, "Japanese Management History and Philosophy," at the Japan-United States Business Conference, which is part of the College and University Partnership Program at the University of Nebraska, Lincoln, on Oct. 4-7.

Edward R. Trubac, associate professor of finance and business economics, delivered a talk entitled "The Short and Intermediate Term Outlook for the Jobbing Casting Industry" to the Iron Castings Society's Fifth Annual Management Information Systems Seminar held in Minneapolis, Minn., on Oct. 19-21.

Russell G. Wahlers, assistant professor of marketing presented a paper entitled "Number of Choice Alternatives and Number of Product Characteristics as Determinants of the Consumer's Choice of an Evaluation Process Strategy," at the Twelfth Annual Conference of the Association for Consumer Research in St. Louis, Mo., on Oct. 22-25.

John H. Yoder, professor of theology, presented the Madsen lectures at Trinity College, Deerfield, Ill., on Oct. 29-30: "The God of the Poor," "The Social Shape of the Gospel," and "Jesus, the Feminist." He also gave an invited lecture entitled "The Arms Race is not a Political Question" at Wheaton College, Wheaton, Ill., Oct. 30.

# documen- tation

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## assistant provost for computing

The University has established the position of Assistant Provost for Computing. The dramatic increase in the use of computers in all facets of the University has made this position essential. The Assistant Provost for Computing will be responsible for coordinating the various activities involved in computing support to education, research and administration. Specific responsibilities will focus on planning the use of computer technology, data communications and word processing. In this planning process, priorities of action will be established to meet the increased demand for computing support.

The director of the Computing Center and the director of Information Systems will report to the Assistant Provost for Computing who will report to the provost.

The provost will be advised by a Committee on Computing Policy consisting of the associate provost, the vice president for Business Affairs, the vice president for Advanced Studies and the Assistant Provost for Computing.

The Assistant Provost for Computing will be advised by a Users Committee on Computing appointed by the provost and chaired by the Assistant Provost for Computing.

With the establishment of this position, direction will be provided in this high technology area to insure that computing services are made available in an orderly and coordinated manner.

-- Prov. Timothy O'Meara  
Provost

## faculty senate journal october 6, 1981

At 7:47 p.m. the senate chairman, Prof. Robert Vacca, called the meeting to order and asked Fr. James Shilts to lead the senate in the opening prayer. The minutes of the Journal for Sept. 7, 1981 were approved without change.

In the chairman's report Vacca stated that the work on the report on Faculty Governance by the Committee on Administration of the University had been completed, under the leadership of Prof. Michael Francis. Vacca also stated that the senate recommendations on the Notre Dame Faculty Children's Tuition Grant Plan (NDCTG) were in the final stage of preparation. The final form of the recommendations would be up for discussion as part of the meeting's agenda. Vacca reported the resignation of Prof. Philip Devenish from the senate, and

welcomed in his stead Prof. James Tabor as a new senate member. The chairman next reported receiving a letter from Father Hesburgh expressing gratitude for the appreciative note on the University's expanded Life Insurance benefits which the senate had directed Vacca to send to Fr. Hesburgh at the Sept. 7, 1981 meeting. Vacca also reminded the senate that on Monday evening, Oct. 12, 1981, Hesburgh would meet with the senate at 7:30 p.m. following his yearly address to the faculty in Washington Hall. Vacca urged the senators to give some time and careful thought to whatever appropriate questions they felt ought to be addressed to Hesburgh at that meeting.

It was reported by the chairman that on Tuesday, Sept. 22, the members of the senate Executive Committee had met with the provost and the other members of the President Search Committee, and were asked to convey their opinions and judgments on the various candidates under consideration. Vacca expressed his positive feelings about consultations of this kind between the senate and administration members, and in addition expressed his qualified satisfaction with the outcome of this particular instance. As the final item in the chairman's report Vacca informed the senate of the successful conduct of the first Faculty Forum on Sept. 24, 1981. The Forum was attended by about 100 faculty members who heard Profs. John Yoder and Philip Gleason discuss the various senses in which Notre Dame can consider itself a Catholic university. Vacca reported that he had received several favorable comments on the Forum, and urged the senators to continue their efforts toward sustaining and broadening faculty interest and participation in the Forum. Transcripts of the Sept. 24 Forum would be mailed to all faculty members prior to the next Forum session which, Vacca announced, would take place on Oct. 29, 1981. This next session will consist of a continuation of the discussion on the Catholic character of Notre Dame, and in particular on what kind of intellectual unity characterizes a Catholic university. Profs. Ernan McMullin from the Department of Philosophy and Edward J. Murphy, White Chair Professor from the Law School have already agreed to present informal position speeches on the above topic at the Oct. 29 Forum session. Vacca expressed his hope that the Faculty Forum would broaden its appeal beyond the faculty membership of the College of Arts and Letters, and not end up being a College of Arts and Letters enclave.

Prof. Donald Barrett, the original proposer and organizer of the Forum, expressed approval of Vacca's sentiments and asked the senate for suggestions as to possible topics for the Dec. 3 session. Prof. Mario Borelli proposed that the Forum consider the question of how the conflicting demands of a professional and a liberal education can be satisfied and/or given an order of priority in the time frame of a student's four years at Notre Dame. Other topics suggested were "People with liberal educations ought to receive more scientific training" (Prof. William Stanchina), and "Ought the Colleges of Arts and Letters and of Science merge?" (Prof. Michael Crowe). Vacca halted the discussion on this topic and asked the senate to proceed to the next agenda item, the report on the Teacher and Course Evaluation (TCE) revision.

Prof. William Burke began his report by explaining that, while the committee in charge of the revision had begun its work during the last academic year, it could not present its report to the senate at the May 1981 meeting due to the length of that meeting. Burke stated that the revised evaluation form is now ready, and proceeded to give some background on the history of the revision of the document, and of TCE at Notre Dame. TCE was begun at Notre Dame during 1969 by Father William Botzum of the Department of Psychology, who had mimeographed questionnaires distributed to the students in May. During 1969-70 Father James Burtchae11 decided to pursue the creation of a more universal TCE form with the following two purposes:

- a) To improve classroom teaching.
- b) To provide more input on teaching quality to the departmental C.A.P.'s.

During 1970-71 Burtchae11 appointed a University committee chaired by Prof. Richard Thompson to poll the faculty on the matter and to design, by 1972, a TCE form to be used at Notre Dame. The presently existing TCE form was debated by the committee, approved unanimously, and put into use beginning in the fall 1973. The form has led a somewhat lack-luster existence from 1973 to 1978. Participation by faculty and students has averaged at about 75%, with lows of about 56%. During 1979-80 two forces were at work concerning a study of the TCE form. One was a student group, headed by Elizabeth Bianco, who was at the time a student senator. This group sought to obtain various facts and figures about the form and its use. The other group was the faculty senate. A study of the possible modifications and corrections of the TCE form was the main item of concern for the senate committee on Faculty Affairs, chaired by Prof. Stephen Batill. Two subcommittees were formed, one presided by Prof. J. McGrath and concerned with the methodology of the form, the other by Batill and concerned with the procedures involved in the use of the TCE form. During the March 1980 senate meeting various possible recommendations on the matter were discussed, with Batill proposing that the senate vote on whether to sponsor a revision of the TCE form or to recommend that it be abandoned. At the following meeting in April the senate voted to recommend to the provost that a new University committee be formed to decide on whether to revise, abandon or redesign anew the TCE document and plan. The committee was formed, presided by Prof. Katherine Tillman. Burke was a member of the committee. Between May 1980 and July 1981 the committee has held 10 formal meetings and about 15 subcommittee meetings. In July 1981 the committee unanimously recommended to the provost the revised TCE form which they had designed. The new TCE form, as submitted to the provost by the committee, will appear, together with the committee recommendation, in the Oct. 9 edition of the Notre Dame Reports. Burke concluded his report by suggesting that the new form be the subject of discussion at some future senate meeting.

An extensive discussion followed Burke's report, concerning whether participation in the new TCE plan would be optional on the part of the faculty, whether the results of the TCE would still go to the departmental C.A.P.'s, and whether the senate ought to form a special committee to monitor the administration and use of the new TCE form. Burke answered that all faculty members are encouraged to participate, that the form would be in use for a trial period of three years, and in addition pointed out that the senate has had ample opportunities for input in the matter. Burke stated that the provost had charged the University committee with the examination and adoption of one of three alternatives, namely to revise the existing TCE form, to update it, or to drop the TCE plan. The committee's decision to opt for a revision was unanimous. The decision not to abandon the plan was based upon the fact that TCE results are a helpful aid in reaching administrative decisions. Prof. Rufus Rauch added, as a footnote to history, that such TCE questionnaires were distributed to the students at least 10 years prior to 1969, and that occasionally some good students refused to participate.

Prof. William Eagan moved that the senate recommend being consulted by the provost prior to the publication of the revised TCE form. Prof. Dino Cervigni seconded the motion, and the floor was opened to discussion.

Vacca stated that he had previously met with the provost and assistant provost, and that both were concerned with the fact that so many constituencies were involved in the revision that to go back now question by question would undo the vast amount of committee work and require a long additional delay. In addition, Vacca stated, the provost said that the new form would not follow the A-D grading format. Another extensive discussion took place, during which the danger of accepting an unseen document was pointed out by Prof. Vincent DeSantis, the need to know exactly what was going to appear in the Notre Dame Reports was expressed by Prof. Richard Lamanna, and the desirability of avoiding an unnecessary delay was voiced by Prof. Alex Hahn. Prof. Paul Conway offered a friendly amendment that the motion read "...prior to implementation..." instead of "...prior to publication...". Eagan accepted the amendment. Concern was again expressed by several senators with the status of the recommendation to the provost, the apparent wish for secrecy on the part of



the administration prior to publication of the document, and the future use of the TCE results. Vacca put the motion to a vote, and the motion, as amended, was passed.

The meeting adjourned for a break at 8:45 p.m. and resumed at 8:50 p.m. Upon reconvenement Prof. Anthony Trozzolo suggested that the entire TCE question become the subject of one of the future Faculty Forum sessions.

Because of the lateness of the hour Vacca asked the senate to forego discussion of items 4 and 5 on the agenda and proceed with the more pressing matter of item 6, the report to the senate on the recommendations concerning the NDCTG plan. The chairman explained that the first item on the agenda for the Oct. 22, 1981 meeting of the Academic and Faculty Affairs Committee of the Board of Trustees was a presentation by Vacca on the NDCTG senate recommendations, and that therefore he hoped to obtain approval from the senate of the substance, if not the form, of the report, including the two recommendations proposed by the senate executive committee. Vacca reminded the senate that the two recommendations were:

- a) The Notre Dame Faculty Children's Tuition Grant Plan should be made available to the children of senior members of the non-Teaching and Research Faculties.
- b) The amount of the benefit should be raised from \$1,000/year to \$2,600/year, with periodic reviews of the amount.

Borelli moved that the report be approved in its substance. Mr. James Deffenbaugh seconded the motion. A lengthy discussion ensued, during which the following suggestions were made:

- 1) It should be pointed out that a number of faculty children will not require the full recommended amount of \$2,600, since they will attend less expensive state institutions (Crowe and Egan).
- 2) The report should be made less technical, with an attached technical appendix (Hahn).
- 3) The report should include a look at the best (from the University's point of view) possible financial picture, rather than just the worse (Prof. Robert Lordi).

Several questions were asked during the discussion, including why children attending non-academic type schools were excluded from the benefit (such schools are difficult to define precisely -- McKim), where the base data for the report were obtained (from the Faculty Children survey -- McKim), and what response could the senate expect from the Academic and Faculty Affairs Committee of the Board of Trustees (Prof. J. Shilts). The motion was then put to vote and passed unanimously.

Returning briefly to item 5 of the agenda Hahn stated that Mr. John Goldrick, director of Admissions, was seeking senate input and critique on admission policies and criteria. Hahn informed interested senators that they could either write their comments directly to Goldrick or to Hahn.

At 9:57 p.m. the meeting was adjourned.

Those absent but not excused were: Fred Dallmayr, government and international studies; Abraham Goetz, mathematics; James Houghton, aerospace and mechanical engineering; Steven Hurtt, architecture; William Slowey, accountancy; and William Tageson, psychology.

Respectfully submitted,

Mario Borelli  
W. Phillip Helman

## faculty committee for university libraries minutes october 13, 1981

Present: James L. Cullather, Vincent P. DeSantis (chairperson), Gerald L. Jones, Lloyd H. Ketchum, Robert C. Miller, Andrew J. Sommese.

The minutes of the meeting of Sept. 14, 1981 were approved for publication.

DeSantis commented briefly on the meeting with members of the Advisory Council and indicated the Council members inquired about the progress of the PACE report regarding the

libraries; about the inclusion of the director of libraries in University Administration planning sessions which would have impact on the libraries; and how the libraries are used by individual faculty members.

Miller reminded Committee members that Father Hesburgh indicated during his address to the faculty that the libraries presently have a \$10 million endowment and that the new goal is \$20 million.

Miller distributed to Committee members the schedule and proposed letters to be sent for the faculty renewal process. Scheduling has been advanced to permit completion of the renewal before the end of the spring semester. In a related matter, it was suggested that a check be made with the Graduate School Office to determine if they would be willing to hold up a graduate degree until the student's library record is clear.

During a discussion of the environmental problems confronting the libraries it was mentioned that the Rare Book Room is the only space within Memorial Library which has a constant environment. The major problems in other areas have to do with fluctuations in temperature and humidity and the fluorescent lighting which needs filtering. Then, of course, there is the perennial noise problem. Miller noted the most recent adjustments that have been made and the modest success of these changes. The Library Administration is attempting to maintain an acceptable level of library quiet, without imposing an oppressive atmosphere.

In a discussion of space needs within the Memorial Library, it was revealed that there is very little room in the tower for additional shelving, that there is a critical need for library faculty offices and an office for library instruction. A 24-hour study facility may also be desirable. Definitive planning must await information regarding how much of the space currently used by non-library occupants will be freed up by the construction of the new faculty office building.

The next meeting is scheduled for Monday, Nov. 9, at 4:00 p.m. The agenda items include a discussion of the recommendations of the Collection Analysis Project, the approval plan and serials.

## additions and corrections to nd report no. 4

Editor's Note: Following are corrections and additions to Notre Dame Report #4 which have been brought to the editor's attention. Underlined portions are the correct changes to be made.

### Faculty of the University, Academic Year 1981-82

REV. ERNEST BARTELL, C.S.C., Professor of Economics and Executive Director of the Helen Kellogg Institute for International Studies. Ph.B., Univ. of Notre Dame, 1953; A.M., Univ. of Chicago, 1954; M.A., Holy Cross College, 1961; Ph.D., Princeton Univ., 1966. (1961, 1966, 1980)

WAN-WEN CHU, Instructor of Finance. B.A., National Taiwan Univ., 1974; M.A., Stanford Univ., 1978. (1981)

THOMAS L. DOLIGALSKI, Assistant Professor of Aerospace and Mechanical Engineering. B.S. E.Sc., Purdue Univ., 1976; M.S., ibid., 1977; Ph.D., Lehigh Univ., 1980. (1980)

SONIA G. GERNES, Associate Professor of English. B.A., St. Teresa College, 1966; M.A., Univ. of Washington, 1971; Ph.D., ibid., 1975. (1975)

KENNETH E. MOORE, Associate Professor of Sociology and Anthropology. B.A., Michigan State Univ., 1953; M.A., Univ. of Illinois, 1968; Ph.D., ibid., 1973. (1970)

PEDATSUR NETA, Associate Faculty Fellow in the Radiation Laboratory. M.Sc., Hebrew University (Jerusalem), 1960; Ph.D., Weizmann Institute of Science, 1965. (1976)

LARRY KENT PATTERSON, Associate Faculty Fellow in the Radiation Laboratory. B.S., Kansas State Univ., 1959; Ph.D., ibid., 1967. (1976)

# advanced studies

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## information circulars

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

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

### **American Heart Association Indiana Affiliate, Inc. Research Applications for 1982-83 Projects**

No. FY82-158

#### **Program:**

The American Heart Association, Indiana Affiliate, Inc., is now accepting orders for application forms for Grants-in-Aid and Fellowship awards for the 1982-1983 fiscal year. Because of the cost of the application forms, the Association requests that only those applying request the kits. Unused applications are no longer applicable because of a revision dated 6/81.

**Deadline:**  
March 15, 1982.

**Application Kits:**  
For an application kit, contact the following:

Miss Claudia Sterling  
Research Program Administrator  
American Heart Association  
Indiana Affiliate, Inc.  
222 South Downey Avenue  
Indianapolis, Indiana 46219  
(317) 357-8622

### **National Research Council Research Associateship Program —Postdoctoral Awards**

No. FY82-159

#### **Program:**

NRC offers awards for basic and applied research at federal laboratories in various

fields of biological, medical and behavioral sciences. Stipends begin at \$22,400 a year for recent doctoral graduates, with higher stipends for seniors with at least five years of postdoctoral experience. Interested persons should first request the poster which outlines the federal organizations participating and the particular areas of research for each, since the NRC requires all persons inquiring to specify the federal agency(s) of interest in order to send the correct research opportunity books and application materials.

**Deadline:**  
January 15, 1982

For Further Information Contact:

National Research Council  
Associateship Office  
(JH610-P)  
2101 Constitution Ave., N.W.  
Washington, D.C. 20418  
(202) 389-6554

(From 1981 ARIS)

**National Research Council  
Cooperative Research Associateships**

No. FY82-160

Program:

U.S. citizens with a recent Ph.D. (less than five years) in chemistry; engineering; biological, earth, environmental, physical, and space sciences are eligible for opportunities for basic and applied research in the laboratories of the Naval Research Laboratory in Washington, D.C. The stipend is \$22,400 for the first year with an increment for the second year. A third year of contractual support may be available from the Office of Naval Research for selected Associates who will be continuing research as employees of approved academic or not-for-profit research institutions.

**Deadline:**  
January 15, 1982

For Further Information Contact:

National Research Council  
Associateship Office  
(JH610-PC)  
2101 Constitution Ave., N.W.  
Washington, D.C. 20418  
(202) 389-6554

(From 1981 ARIS)

**National Science Foundation  
Alan T. Waterman Award**

No. FY82-161

Program:

An award of up to \$50,000 per year for up to three years for scientific research or advanced study in the mathematical, physical, medical, biological, engineering, social, or other sciences at the institution of the recipients's choice. The award is given to an outstanding young scientist in the forefront of his or her field. Candidates must be U.S. citizens, 35 years old or younger, or, for those who received the Ph.D. later in their careers, no more than five years beyond receipt of the degree. Nominations for the award are considered from the scientific community, individuals, and professional or other appropriate organizations.

**Deadline:**  
December 31, 1981

For Further Information Contact:

Mrs. Lois Hamaty  
Alan T. Waterman Award Committee  
National Science Foundation  
1800 G. Street NW  
Washington, D.C. 20550  
(202) 357-7512

(From 1981 ARIS)

**National Science Foundation  
Ethics and Values in Science  
and Technology (EVIST)**

No. FY82-162

Program:

Grants for projects concerning the ethical rules and social standards that govern the conduct of scientific and technological activities, including the selection of research priorities and the applications of research results. Highest priority is assigned to projects that deal with issues of demonstrable importance to nonspecialists in science and ethics and that include a well-developed plan for disseminating their results to as broad a range of concerned individuals and groups as possible. Five categories are given to suggest the nature of the program: (1) issues in the education and professional conduct of scientists and engineers; (2) issues of obligations and constraints associated with institutions and organizations; (3) issues associated with new developments in science and technology; (4) effects of changing ethical and social values and expectations upon scientific priorities and upon the conduct of scientific and technological activities; and (5) ethical issues and value assumptions in decision-making processes involving science and technology. Types of projects and activities may be:

disciplinary and multidisciplinary research (including case studies); workshops of national scope; conferences and workshops; experimental workshops and other types of projects; projects of national scope; colloquia; and projects to lay a foundation for significant future work.

Deadline:

Grants: January 4, 1982

Final Proposals: April 1, 1982

For Further Information Contact:

Rachelle Hollander  
Acting Program Manager  
Division of Intergovernmental  
and Public Service  
Science and Technology Programs  
National Science Foundation  
Room W-666  
1800 G Street NW  
Washington, DC 20550  
(202) 357-7552

(From 1981 ARIS)

**National Science Foundation  
International Travel Grant Program**

No. FY82-163

Program:

Travel funds to enable U.S. scientists to participate in international scientific meetings held abroad for the purpose of (1) obtaining and exchanging science information and (2) professional development. Two types of awards are made: Group Awards: To professional societies and nonprofit organizations, including universities, that wish to coordinate U.S. participation in international meetings. Individual Awards: To individuals who have: (1) been invited to lecture at a plenary session of an international scientific meeting; (2) been invited to organize a special session at an international scientific meeting; or (3) been invited to participate in a NATO Advanced Study Institute and recommended for travel support by the institute director. To qualify for support to a NATO Advanced Study Institute, prospective participants must be U.S. citizens and not more than seven years beyond the doctorate as of the date of the meeting.

Deadline:

January 1, 1982 for travel after April 1, 1982.

For Further Information Contact:

Mildred M. Bosilevac  
Assistant Program Director  
Room 1214  
Directorate for Scientific Technological,  
and International Affairs  
Division of International Programs

Europe Section  
National Science Foundation  
1800 G Street, NW  
Washington, DC 20550  
(202) 357-9505

(From 1981 ARIS)

**National Science Foundation  
U.S.-Republic of Korea Cooperative  
in Science Program**

No. FY82-164

Program:

Proposals for cooperative research, short- and long-term visits, and seminars may be submitted in the emphasis areas of biochemical engineering, marine science, and other fields of NSF interest.

Deadline:

January 1, 1982

For Further Information Contact:

Dr. Gerald A. Edwards  
Latin America and Pacific Section  
National Science Foundation  
1800 G Street, NW  
Washington, DC 20550

(From 1981 ARIS)

**Smithsonian Institution  
Smithsonian Fellowships in the  
Biological Sciences**

No. FY82-165

Program:

Smithsonian fellowships are awarded to support independent research in residence at the Smithsonian, in association with its staff and using its collections, laboratories, and other facilities. Proposals for research may be offered in fields in which the Institution has research strength including systematics, solar radiation research, photobiology, animal behavior and pathology, tropical biology, ecology, natural history, evolutionary biology, paleobiology, and marine biology. The fellowships are available to postdoctoral scholars at an annual stipend of \$17,000 plus research allowance; to doctoral candidates to conduct research for their dissertations at an annual stipend of \$9,500 plus research allowance; and to graduate students to conduct ten weeks of directed research and study projects with a stipend of \$1,500.

Deadline:

January 15, 1982

For Further Information Contact:

Smithsonian Institution  
Office of Fellowships and Grants

Room 3300, L'Enfant Plaza  
Washington, DC 20560  
(202) 287-3271

(From 1981 ARIS)

**Smithsonian Institution  
Smithsonian Fellowships in the  
History of Science and Technology**

No. FY82-166

Program:

Proposals for research may be offered in various areas of the history of science, including the history of medicine. Other stipend information is as above.

Deadline:

January 15, 1982

For Further Information Contact:

Smithsonian Institution  
Office of Fellowships and Grants  
Room 3300, L'Enfant Plaza  
Washington, DC 20560  
(202) 287-3271

(From 1981 ARIS)

**Smithsonian Institution  
Eppley Smithsonian Fellowships**

No. FY82-167

Program:

A postdoctoral fellowship funded by the Eppley Foundation is awarded to support independent research in residence at the Smithsonian Radiation Biology Laboratory in Rockville, MD. Proposals may be offered in the areas of solar radiation measurement, conversion of solar radiation to other usable forms of energy, and the effects of solar radiation on the biosphere. The postdoctoral investigator must be within five years of the degree or a visiting scholar on sabbatical leave.

Deadline:

January 15, 1982

For Further Information Contact:

Smithsonian Institution  
Office of Fellowships and Grants  
Room 3300, L'Enfant Plaza  
Washington, DC 20560  
(202) 287-3271

(From 1981 ARIS)

**American Urological Association, Inc.  
AUA Summer Student Fellowships**

No. FY82-168

Program:

Ten fellowships, with a stipend of \$1,000,

are available to medical students to work in Urology Research Laboratories.

Deadline:

January 1, 1982

For Further Information Contact:

Dr. E. Darracott Vaughan, Jr.  
Research Committee  
American Urological Association, Inc.  
Division of Urology  
Cornell University Medical Center  
Box 95, 525 E. 68th Street  
New York, New York 10021

(From 1981 ARIS)

**Blood Systems, Inc.  
Research Grants**

No. FY82-169

Program:

Grant support of one year is given for basic and applied research in blood banking sciences and hemotherapy. The budget must include the following categories: base salaries, fringe benefits appropriate for your institution, and an itemized list of consumable supplies including animals. Requests for equipment not to exceed \$5,000 may be included but must be totally justified by the applicant. An overhead rate not to exceed 10 percent of the total amount of the grant will be allowed to the grantee institution. An outline of the requirements for the grant proposal can be obtained from the Research Committee.

Deadline:

December 31, 1981

For Further Information Contact:

Blood Systems, Inc.  
Research Committee  
6401 East Thomas Road  
P. O. Box 1867  
Scottsdale, AZ 85252  
(602) 946-4201

(From 1981 ARIS)

**Business and Professional Women's  
Foundation  
Sally Butler International Scholarships**

No. FY82-170

Program:

Applicants must be women from Latin American countries who are graduate students at an American university who wish to continue their graduate studies in the United States prior to returning to their native countries after graduation. Application forms are available from the Foundation.

**Deadline:**  
January 1, 1982

**For Further Information Contact:**

Business and Professional  
Women's Foundation  
2012 Massachusetts Avenue, NW  
Washington, DC 20036  
(202) 293-1200

(From 1981 ARIS)

**The Jane Coffin Childs Memorial Fund  
for Medical Research  
Research Grants**

**No. FY82-171**

**Program:**

Awards (ca. \$3,000-\$16,000) are given for up to two years for young investigators to undertake research into the origins, causes, and cures of cancer with emphasis on fundamental investigation rather than the clinical aspects of the disease. The Fund urges those interested to contact them directly for further information.

**Deadline:**  
January 1, 1982

**For Further Information Contact:**

Elizabeth Ford  
The Jane Coffin Childs Memorial  
Fund for Medical Research  
333 Cedar Street  
New Haven, CT 06510  
(203) 432-4503

(From 1981 ARIS)

**The Jane Coffin Childs Memorial Fund  
for Medical Research  
Fellowships**

**No. FY82-172**

**Program:**

Stipends of \$15,000/year for 1-3 years to support cancer research for those holding the Ph.D. or M.D. and generally under 30 years of age with no more than 2 years of postdoctoral experience. Further information can be obtained from the office of the Director.

**Deadline:**  
January 1, 1982

**For Further Information Contact:**

Elizabeth Ford  
The Jane Coffin Childs Memorial  
Fund for Medical Research  
333 Cedar Street  
New Haven, CT 06510

(From 1981 ARIS)

**Community Mental Health Center  
of Scott County  
Clinical Psychology Internship**

**No. FY82-173**

**Program:**

A one-year stipend of \$8,500 (plus health and vacation benefits) is available to a predoctoral student who has completed at least three years of academic training toward a Ph.D. The program offers a broad variety of clinical experiences within a community mental health setting.

**Deadline:**  
January 15, 1982

**For Further Information Contact:**

Community Mental Health Center  
of Scott County  
1441 W. Central Park  
Davenport, IA 52804  
Attn: Charles Hayes, Ph.D.  
(319) 383-1900

(From 1981 ARIS)

**The Grass Foundation  
Fellowships in Neurophysiology**

**No. FY82-174**

**Program:**

The fellowship is open to persons of any nationality at the late predoctoral or early postdoctoral stage to cover travel and room and board for fellow and family plus a modest research budget while at the Marine Biological Laboratory, Woods Hole, Massachusetts for the summer research program. Only those with no prior experience at the Laboratory will be considered. Applicants should write for information to prepare an application and request Bulletin FA-282.

**Deadline:**  
January 4, 1982

**For Further Information Contact:**

The Grass Foundation  
77 Reservoir Road  
Quincy, MA 02170  
(610) 773-0002

(From 1981 ARIS)

**The Hastings Center  
Fellowship Program**

**No. FY82-175**

**Program:**

Three postdoctoral fellowships are offered each year for a year of residence at the Center to do research and reading in ethical problems of the biomedical, social and behavioral sciences for those intent on a future

career in bioethics. Minimal requirement is an advanced doctoral or professional degree or its equivalent (Ph.D., M.D., J.D., LL.B.). Stipend is \$21,000 for one year to cover all costs, including transportation and housing, with an additional \$1,000 to cover secretarial expenses and research related travel.

Deadline:  
January 1, 1982

For Further Information Contact:

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

(From 1981 ARIS)

**The Hastings Center  
The Visiting Senior Scholar Program**

No. FY81-176

Program:

The Center offers a one-year visiting residential staff fellowship to an established senior scholar to spend approximately half time at the Center as a working staff member and the remaining time to pursue personal research interests which should overlap with the work of the Center. The stipend is \$34,000 to \$39,000 with additional funds for relocating in Hastings, as well as secretarial and research assistance. The Hastings Center was established in 1969 to examine ethical problems of the biomedical, social and behavioral sciences, as well as professional ethics.

Deadline:  
January 15, 1982

For Further Information Contact:

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

(From 1981 ARIS)

**Indian Health Employees  
Scholarship Fund, Inc.  
Scholarships**

No. FY82-177

Program:

Persons of American Indian descent are eligible for support, dependent on need and availability of funds, for any higher learning, preferably in the health field. Support is for one year, renewable each year if grades, etc. warrant it. If a student can show need any time throughout the year, and

if funds are available, deadlines are waived, and help is given.

Deadline:  
January 1, 1982

For Further Information Contact:

Indian Health Employees  
Scholarship Fund, Inc.  
Mrs. Vylla G. Picotte  
Executive Secretary  
Federal Building, Room 215  
115 Fourth Ave., S.E.  
Aberdeen, SD 57401  
(605) 225-0250 x 457

(From 1981 ARIS)

**March of Dimes Birth Defects Foundation  
Education Grants**

No. FY82-178

Program:

Grants to stimulate the development or expansion of professional or lay education programs through appropriate schools, health agencies and other institutions with the objective of preventing birth defects and otherwise improving the outcome of pregnancy. These include: Public Health Education: programs for the instruction and motivation of parents and prospective parents, students, teachers, patients and the general public. Health Personnel Development: education of health professionals involved in perinatal care. Medical Education: designed to keep physicians and biomedical scientists abreast of developments in research and clinical applications.

Deadline:  
January 1, 1982

For Further Information Contact:

March of Dimes Birth  
Defects Foundation  
Vice President for Education  
1275 Mamoroneck Avenue  
White Plains, NY 10605  
(914) 428-7100

(From 1981 ARIS)

**The McKnight Foundation  
McKnight Scholars Awards**

No. FY82-179

Program:

To stimulate research in neuroscience, especially as it pertains to memory, five Scholars will be supported with an award to the sponsoring institution of \$30,000 for each of three successive years to be used for salary and direct costs. Eligible applicants



are those who hold a M.D. or Ph.D. degree, have not completed more than five years of postdoctoral research, and who show evidence of a commitment to a continuing career in neuroscience.

Deadline:  
January 1, 1982

For Further Information Contact:

The McKnight Foundation  
Mr. Russell V. Ewald  
Executive Vice-President  
410 Peavey Building  
Minneapolis, MN 55402  
(612) 333-4220

(From 1981 ARIS)

### **The National Humanities Center Fellowships**

No. FY82-180

Program:  
Approximately 30-40 fellowships are awarded every year to scholars from fields traditionally associated with the humanities, and representatives of the natural sciences, the social sciences, and the professions so that they may pursue research and writing while in residence at the Center. The amount of the fellowship stipend is based on a fellow's usual salary, but applicants are encouraged to bring some measure of support with them if possible.

Deadline:  
January 11, 1982

For Further Information Contact:

The National Humanities Center  
P. O. Box 12256  
Fellowships  
Research Triangle Park, NC 27709

(From 1981 ARIS)

### **National Huntington's Disease Association Postdoctoral Research Fellowships**

No. FY82-181

Program:

Applications are invited for 1-2 year postdoctoral fellowships in clinical and/or basic research in studies relating to problems of Huntington's Disease. Applicants must have professional degree of M.D. or Ph.D. with a field of interest in one of the following: basic sciences, including neuroscience, biochemistry, molecular biology, pathology, and pharmacology, or from such clinical specialties as neurology, psychiatry, and human genetics. The stipend is \$13,000-\$17,000 per

year dependent on educational background and experience. Fellowship will begin July 1. For specific application requirements, contact the Association.

Deadline:  
January 10, 1982

For Further Information Contact:

National Huntington's Disease Association  
128 A East 74th Street  
New York, New York 10021  
(212) 744-0302

(From 1981 ARIS)

### **National Multiple Sclerosis Society Postdoctoral Fellowships**

No. FY82-182

Program:  
Fellowships (varying with need and institution) for up to three years to unusually promising recipients of the M.D. or Ph.D. to support training in research related to multiple sclerosis and allied neurological disorders. Candidates must select their own training institutions and make all necessary arrangements.

Deadline:  
January 15, 1982

For Further Information Contact:

National Multiple Sclerosis Society  
Research Programs Department  
205 East 42nd Street  
New York, New York 10017

(From 1981 ARIS)

### **National Multiple Sclerosis Society Research Grants Program**

No. FY82-183

Program:  
Grants to support research into the cause, prevention, alleviation, and cure of multiple sclerosis. Support is for fundamental and applied studies, clinical or nonclinical, for up to five years. Funds may be requested for the following expenditures: professional and non-professional personnel and services, permanent equipment, consumable supplies, travel, and indirect costs. The institutions are the official recipients of the grants.

Deadline:  
January 15, 1982

For Further Information Contact:

National Multiple Sclerosis Society  
Research Programs Department

205 East 42nd Street  
New York, New York 10017

(From 1981 ARIS)

**The Paralyzed Veterans of America  
Technology and Research Foundation  
Spinal Cord Injury Research Grants  
and Fellowships**

No. FY82-184

Program:

Proposals, funded for one year (renewable), are accepted for furthering of technological advances in rehabilitative methods and devices, basic cure research for spinal cord injury and disease, and other areas (i.e., clinical) beneficial to disabled individuals, especially veterans. Special consideration will be given to proposals which offer the most promise to further medical and rehabilitative research which benefit the severely disabled, especially those with spinal cord injury or disease. Predoctoral and postdoctoral fellowship proposals are also considered for funding and are awarded not only on the merits of the research project, but also the status and credentials of the sponsor or primary investigator who directs the project and advises the research fellow.

Deadline:

January 1, 1982

For Further Information Contact:

The Paralyzed Veterans of America  
Technology and Research Foundation  
Research Director  
4350 East-West Highway, Suite 900  
Washington, DC 20014  
(301) 652-2135

(From 1981 ARIS)

**University of Pittsburgh  
Andrew Mellon Postdoctoral Fellowship**

No. FY82-185

Program:

These fellowships are awarded for the professional development of young scholars to do advanced study and research in various fields of the humanities, social sciences, and the natural sciences. The latter area includes the fields of biological sciences, mathematics and statistics, physics, and astronomy. The Fellows are expected to be in Pittsburgh throughout the period of their appointment and to engage in research and writing during this period. The basic stipend is \$14,000 for eleven months, plus supplements: traveling expenses, up to \$200, and incidental costs of research. Nine-month appointments are also available at a stipend of \$11,500 plus supplements. Fellowship will begin September 1.

Deadline:

January 15, 1982

For Further Information Contact:

University of Pittsburgh  
Andrew Mellon Postdoctoral  
Fellowship  
Director of Graduate Programs, FAS  
1028-H Cathedral of Learning  
Pittsburgh, Pennsylvania 15260

(From 1981 ARIS)

## current publications and other scholarly works

### COLLEGE OF ARTS AND LETTERS

#### English

Gernes, Sonia G.

S.G. Gernes. 1981. Faith and art: The vocation of Flannery O'Connor. Notre Dame Magazine 10:8-13.

#### Government and International Studies

Libby, Ronald T.

R.T. Libby and J.H. Cobbe. 1981. Regime change in Third World extractive industries: A critique. International Organization 35(4):725-744.

#### History

DeSantis, Vincent P.

V.P. DeSantis. 1981. Review of Sean Dennis Cashman's, Prohibition: The Lie of the Land. History: Reviews of New Books September 9:228-229.

Gleason, Philip

P. Gleason. 1981. A browser's guide to American Catholicism, 1950-1980. Theology Today 38:373-388.

P. Gleason. 1981. Americans all: World War II and the shaping of American identity. Review of Politics 43:483-518.

#### Modern and Classical Languages

Marullo, Thomas G.

T.G. Marullo. 1980. The 'little man' as Meschanin-Picaro: Iakov Butkov's, 'The Petersburg Heights.' Russian Literature 10(2):191-205.

#### Philosophy

Chroust, Anton-Hermann

A.-H. Chroust. 1981. Which came first, the chicken or the egg?: Censorinus, De Die Natali IV. 3-4: A fragment of Aristotle's On Philosophy. Classica Et Mediaevalia (Denmark) 32:221-225.

## Psychology

Santos, John F.

- J.L. McIntosh and J.F. Santos. 1981. Suicide among minority elderly: A preliminary investigation. Suicide and Life-Threatening Behavior 11(3):151-166.

## COLLEGE OF SCIENCE

## Biology

Carpenter, Stephen R.

- S.R. Carpenter. 1981. Effect of control measures on pest populations subject to regulation by parasites and pathogens. Journal of Theoretical Biology 92:181-184.

## Chemistry

Basu, Subhash C.

- P. Bhattacharya, I. Simet and S.C. Basu. 1981. Differential inhibition of multiple forms of DNA polymerase  $\alpha$  from IMR-32 human neuroblastoma cells. Proceedings of the National Academy of Science 78(5):2683-2687.

Castellino, Francis J.

- J.R. Powell and F.J. Castellino. 1981. Isolation of human val<sub>334</sub>-plasminogen as an elastolytic fragment of human glu<sub>1</sub>-plasminogen. Biochemical and Biophysical Research Communications 102(1):46-52.

- J.P. Morris, S. Blatt, J.R. Powell, D.K. Strickland and F.J. Castellino. 1981. Role of lysine binding regions in the kinetic properties of human plasmin. Biochemistry 20(17):4811-4816.

- D.K. Strickland, T.T. Andersen, R.L. Hill and F.J. Castellino. 1981. Calorimetric study of the rabbit hepatic galactoside binding protein: Effects of calcium and ligands. Biochemistry 20(18):5294-5297.

Funabashi, Koichi

- \*K. Funabashi. 1981. Small-polaron approach to the hydrated electron. Semiclassical model. The Journal of Physical Chemistry 85(19):2734-2737.

Haller, Kenneth J.

- T. Mashiko, C.A. Reed, K.J. Haller, M.E. Kastner and W.R. Scheidt. 1981. Thioether ligation in iron-porphyrin complexes: Models for cytochrome c. Journal of the American Chemical Society 103(19):5758-5767.

Kozak, John J.

- \*M.H. Dung and J.J. Kozak. 1981. Pattern formation in the Schlögl model of non-linear kinetics. Physica A 108A:63-76.
- \*J.E. MacCarthy, J.J. Kozak, K.A. Green and K.D. Luks. 1981. A variational approach to the statistical mechanics of hard discs and hard spheres. Molecular Physics 44(1):17-31.

Kumar, Anil

- \*A. Kumar and P. Neta. 1981. Reduction and demetalation of silver porphyrins in aqueous solutions. The Journal of Physical Chemistry 85(19):2830-2832.

Neta, Pedatsur

- \*A. Kumar and P. Neta. 1981. Reduction and demetalation of silver porphyrins in aqueous solutions. The Journal of Physical Chemistry 85(19):2830-2832.

Powell, James R.

- J.P. Morris, S. Blatt, J.R. Powell, D.K. Strickland and F.J. Castellino. 1981. Role of lysine binding regions in the kinetic properties of human plasmin. Biochemistry 20(17):4811-4816.

J.R. Powell and F.J. Castellino. 1981.

- Isolation of human val<sub>334</sub>-plasminogen as an elastolytic fragment of human glu<sub>1</sub>-plasminogen. Biochemical and Biophysical Research Communications 102(1):46-52.

Scheidt, W. Robert

- T. Mashiko, C.A. Reed, K.J. Haller, M.E. Kastner and W.R. Scheidt. 1981.

- Thioether ligation in iron-porphyrin complexes: Models for cytochrome c. Journal of the American Chemical Society 103(19):5758-5767.

Strickland, Dudley K.

- J.P. Morris, S. Blatt, J.R. Powell, D.K. Strickland and F.J. Castellino. 1981. Role of lysine binding regions in the kinetic properties of human plasmin. Biochemistry 20(17):4811-4816.

- D.K. Strickland, T.T. Andersen, R.L. Hill and F.J. Castellino. 1981. Calorimetric study of the rabbit hepatic galactoside binding protein: Effects of calcium and ligands. Biochemistry 20(18):5294-5297.

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\*Under the Radiation Laboratory  
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## Physics

Kenney, V. Paul

- V.P. Kenney and D.M. Byers. 1981. The energy debate: Technical and moral issues. America 146:136-140.

## COLLEGE OF ENGINEERING

## Civil Engineering

Razzaq, Zia

- Z. Razzaq and J.G. Chang. 1981. Partially restrained imperfect columns. Pages 6.131-6.154 in, J.H. Howlett, W.M. Jenkins and R. Stainsby, eds. Joints in Structural Steelwork. John Wiley and Sons, New York and Toronto.

## MEDIEVAL INSTITUTE

Izbicki, Thomas M.

- T.M. Izbicki. 1980. New notes on late medieval jurists. Bulletin of Medieval Canon Law 10:62-65.

McInerny, Ralph

- R. McInerny. 1981. Credo. Center Journal 1(1):17-19.

## awards received

IN THE MONTH OF OCTOBER, 1981

Department or Office	Principal	Short title	Sponsor	Dollars Months
AWARDS FOR RESEARCH				
Cent. Study Man	Leege, Kerrigan	Selected Works of Ortega y Gasset	Natl. Endow. Humanities	5,000 12
Aerospace Mech. Eng.	Mueller, Nelson, Batill	Boundary Layer Characteristics of Airfoil at Low Reynolds Numbers	Dept. Navy	32,000 12
Radiation Lab	Schuler	Effects of Radiation on Matter	Dept. Energy	15,000 ---
Microbiology	Asano	Experimental Carcinogenesis by Dietary Nitrite	Natl. Inst. Health	79,381 9
Chemical Eng.	McHugh	Special Topics in Thermodynamics	Exxon Chem. Co.	40,205 12
Metallurgical Eng.	Kargol	Hydrogen Absorption by 2-1/4 Cr-1Mo Steel	Welding Res. Council	12,000 12
AWARDS FOR FACILITIES AND EQUIPMENT				
Microbiology Lobund Lab.	Pollard	Cancer Research with Per- fluorocarbons	Suntech Grp., Suntech, Inc.	15,000 ---
AWARDS FOR INSTRUCTIONAL PROGRAMS				
Advanced Studies	Gordon	Dorothy D. Compton Minority Fellowship Grant	Compton Fdn., Inc.	5,000 9

## proposals submitted

IN THE MONTH OF OCTOBER, 1981

Department or Office	Principal	Short title	Sponsor	Dollars Months
PROPOSALS FOR RESEARCH				
Art	Geoffrion	3D Drawing	J.S. Guggenheim Mem. Fdn.	14,500 12
Art	Geoffrion	3D Drawing	M.I. Bunting Inst.	14,500 12
Art	Geoffrion	3D Drawing	Natl. Endow. Arts	14,500 12
Biology	Craig, Munstermann	Mosquitoes of Sardinia: A Survey 30 Years after the Eradication of Malaria	Natl. Inst. Health	17,000 12
Chemical Eng.	Varma	Chemical and Catalytic Reaction Engineering	Nalco Fdn.	18,210 12
Mathematics	Nagano, Howard, Smyth	Differential Geometry of Real and Complex Manifolds	Natl. Sci. Fdn.	199,586 36
Metallurgical Eng.	Kargol	Hydrogen Effects on Linepipe Steels with Rare Earth Additions	Molycorp, Inc.	41,482 12
Mathematics	Kronstein	Integral Group Representation and the Schur Index	Natl. Sci. Fdn.	37,690 24

Department of Office	Principal	Short title	Sponsor	Dollars Months
Mathematics	Hahn, Wong	Classical Groups and Groups of Lie Type	Natl. Sci. Fdn.	89,641 24
Mathematics	Knight, Nadel	Model Theory	Natl. Sci. Fdn.	89,403 36
Mathematics	Stoll	Theory of Several Complex Variables	Natl. Sci. Fdn.	124,393 24
Biology	Tweedell	Detection of Malignant Transformation by the Lucke Tumor Herpesvirus	Canc. Soc. St. Jos. Cnty.	7,605 12
Chemistry	Thomas	Photochemical Studies in Organic Organized Assemblies	Natl. Sci. Fdn.	350,913 36
Chemistry	Nowak	Information Transfer - Enzyme Activation and Regulation	Natl. Inst. Health	36,936 12
Economics	Swartz, Kozak	Neighborhood Cohesiveness and Citizen Crime Prevention	Natl. Inst. Justice	12,750 12
Mathematics	Rao	Self-linked Curves	Natl. Sci. Fdn.	28,637 24
Mathematics	Taylor, Dwyer, Connolly, Williams	Algebraic and Geometric Topology	Natl. Sci. Fdn.	66,440 12
Aerospace Mech. Eng.	Yang, Lloyd, Kanury	Computer Modeling of Aircraft Cabin Fire Phenomena	U.S. Dept. Commerce	128,231 12
Aerospace Mech. Eng.	Lee	Differential Pneumatic Boot for Aircraft Deicing	Goodyear Aerospace Corp.	95,774 12
Chemical Eng.	Varma	Optimal Catalyst Pellet Design for Heterogeneous Catalytic Reactors	Natl. Sci. Fdn.	19,075 24
Chemistry	Hayes	Surface Probes of Protein Absorption on Solids	Natl. Inst. Health	44,042 12
Chemistry	Pasto	Diradical Formation and Reactions in Cycloaddition Reactions of Allenes	Natl. Sci. Fdn.	148,374 39
Microbiology Lobund Lab.	Schlager	Serum Lipid Profile as Indication of Success in Cancer Chemotherapy	Elsa U. Pardee Fdn.	24,345 12
Chemistry	Kowalski	Synthesis of Anticancer Germacranolide Sesquiterpenes	Natl. Inst. Health	66,668 12
Microbiology	Fennewald	Biochemical Mechanism of DNA Transposition	Natl. Inst. Health	112,280 12
Microbiology	Fennewald	Biochemical Mechanism of DNA Transposition	Amer. Canc. Soc.	231,990 24
Biology	Craig	Factors Affecting Vector Competence in <i>Aedes triscriptus</i>	Natl. Inst. Health	189,771 12
Cent. Study Man	Santos, Hubbard, Pryor	Elderly Drug Abuse: Sex and Ethnic Influences	Natl. Health Health	108,205 12

PROPOSALS FOR FACILITIES AND EQUIPMENT

Chemistry	Scheidt, Miller	DRR-BS Shared Instrumentation Grant	Natl. Inst. Health	168,000 12
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PROPOSALS FOR INSTRUCTIONAL PROGRAMS

Earth Sciences	Murphy	Program to Attract More Minority Students to Major in Geology	(private corps.)	74,442 3
College Arts Letters	Santos	Gerontology at Notre Dame: The Institutionalization Phase	Retirement Res. Fdn.	252,518 12
Psychology	Pryor	Summer Program in Psychological Research	(private fdtns.)	161,206 36
Biology	Weinstein	Experimental Parasitology and Vector Biology	Natl. Inst. Health	152,217 12

# summary of awards received and proposals submitted

IN THE MONTH OF OCTOBER, 1981

## AWARDS RECEIVED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	2	\$ 27,000	4	\$ 156,586	6	\$ 183,586
Facilities and Equipment	--	--	1	15,000	1	15,000
Instructional Programs	--	--	1	5,000	1	5,000
Service Programs	--	--	--	--	--	--
Other Programs	--	--	--	--	--	--
Total	2	\$ 27,000	6	\$ 176,586	8	\$ 203,586

## PROPOSALS SUBMITTED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	11	\$ 1,105,623	17	\$ 1,227,318	28	\$ 2,332,941
Facilities and Equipment	--	--	1	168,000	1	168,000
Instructional Programs	3	479,177	1	161,206	4	640,383
Service Programs	--	--	--	--	--	--
Other Programs	--	--	--	--	--	--
Total	14	\$ 1,584,800	19	\$ 1,556,524	33	\$ 3,141,324

## 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.

Agency	Programs	Application Closing Dates
German Academic Exchange Service	Short Term Research	January 31, 1982
German Academic Exchange Service	Study Visits	January 31, 1982
University of Melbourne	Travel Grants and Grants-In-Aid	January 31, 1982
University of Melbourne	Research Fellowships	January 31, 1982
Institute of Museum Services	General Operating Support	January 19, 1982

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## notre dame report

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