

notre dame report

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the university

united way campaign

The participation of our Notre Dame community in the St. Joseph County United Way campaign began Sept. 17 with a luncheon given by the President of the University for the chairmen and directors of the campus departments. Prof. Theodore Crovello, chairman of the Department of Biology, has been appointed by Father Hesburgh to head the campus component of the county-wide campaign. Our goal is \$79,000, nearly 20 per cent more than the \$66,000 which Notre Dame people contributed to the United Way last year. Now, particularly because of considerable unemployment in the area, the need is greater than ever before. Members of the faculty and staff are encouraged to respond generously to the needs of those, including many Notre Dame families, who each year seek the professional assistance of United Way agencies.

suvon use encouraged

The faithful use of SUVON for business calls to all Indiana institutions of higher education and to about 180 cities and towns in Indiana constitutes a great saving to the University. To encourage your use of this "free" phone service, we are publishing in the University Directory more exact dialing instructions and a list of the cities which can be reached by SUVON.

In addition we are scheduling SUVON instructional sessions for new faculty and staff members. The meetings will consist of a short slide presentation and a question and answer period. The SUVON sessions will be held in the Library Lounge on Thursday, Oct. 9 at 11 a.m., and Thursday, Oct. 16 at 1 p.m.

Educational Media will send a representative to any faculty or staff meeting requesting a brief question and answer session about SUVON. For this, or for any further information about SUVON, please call #1829.

Sr. Elaine V. DesRosiers, O.P.
Director, Educational Media

cities film series

The Cities Film Series, produced by John McGreevey of Toronto and part of the permanent film collection of the University, will soon be shown for preview by the faculty and other interested persons. Students are also welcome either as individuals or as class groups. The series is sponsored by Educational Media.

Tuesday	Oct. 7	"Peter Ustinov's Leningrad"
Wednesday	Oct. 8	"R.D. Laing's Glasgow"
Tuesday	Oct. 14	"Elie Wiesel's Jerusalem"
Wednesday	Oct. 15	"Mai Zetterling's Stockholm"
Tuesday	Oct. 28	"George Plimpton's New York"
Wednesday	Oct. 29	"Anthony Burgess' Rome"

Each film will be shown at 8 p.m. in the auditorium of the Snite Museum of Art. (These films are available for other bookings from Media Resources #2793.)

snite museum hours

Snite Museum will be open:

Monday - Friday	9 a.m. - 4 p.m.
Saturday - Sunday	1 p.m. - 4 p.m.
Football Saturdays	10 a.m. - 12:30 p.m.

Offices will be open to the public:

Monday - Friday	9 a.m. - 12 p.m. 1 p.m. - 4 p.m.
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Galleries in O'Shaughnessy and The Snite will be open:

Tuesday - Friday	10 a.m. - 4 p.m.
Saturday - Sunday	1 p.m. - 4 p.m.

(Please note all galleries will be closed on Mondays.)

Print, Drawing and Photography Gallery will be open:

Tuesday - Friday	10 a.m. - 12 p.m. 1 p.m. - 4 p.m.
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(Please note that the Print, Drawing and Photography Gallery will be closed on weekends.)

The museum will be closed in observance of the following holidays: New Years: Jan. 1-4; Good Friday and Easter Weekend; Memorial Weekend; July 4 and 5; Thanksgiving Weekend, starting after the last class; Christmas: Dec. 20-31.

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faculty notes

honors

Robert L. Devetski, adjunct associate professor of microbiology, has been elected to membership in the Infectious Diseases Society.

"Cisterns," the newest full-length play of Julie Jensen, assistant professor of communication and theatre, was accepted by the Midwest Playwrights Laboratory in Madison, Wis., where it received a professional stage reading under professional direction in August.

Gilbert D. Loescher, assistant professor of government and international studies, was elected to the board of directors of Amnesty International U.S.A. for a two-year term (1980 to 1982).

Kenneth W. Milani, associate professor of accountancy, was elected to a three-year term on the board of trustees of the American Taxation Association, a section of the American Accounting Association.

Norlin G. Rueschhoff, chairman and associate professor of accountancy, was elected chairman of the International Section and member of the Executive Council of the American Accounting Association for the 1980-81 academic year at the association's annual meeting in Boston on Aug. 11.

Leonard M. Savoie, professor of accountancy, was reappointed a member of the Auditing Standards Advisor Council of the American Institute of Certified Public Accountants for the year 1980-81.

Anthony M. Trozzolo, Huisking professor of chemistry, has been appointed to the nominating committee of the Division of Organic Chemistry, American Chemical Society.

activities

Fabio B. DaSilva, professor of sociology and anthropology, received a faculty development grant for travel to Brazil in connection with the Amazon Basin Research Program, spending part of the summer in that country. On Aug. 28 DaSilva presented a paper, "Life and Culture: Simmel and Phenomenology," (with Jim Faught), at the annual meeting of the American Sociological Association, New York City.

William F. Eagan, associate professor of management, along with Ethna Cooper, presented a paper, "Tender Offers, the Williams Act, Shareholders' Rights and Officers' Responsibility," at the annual convention of the American Business Law Association, San Francisco, Calif., on Aug. 13.

Nicholas F. Fiore, chairman and professor of metallurgical engineering and materials science, presented a talk, "Interactive Processes in Hydrogen Embrittlement," at the Fontana Corrosion Center, Ohio State University, on Aug. 11. Fiore also presented a

paper (coauthored by J.A. Kargol, assistant professor of metallurgical engineering and materials science) entitled "Hydrogen Embrittlement of a Ni-base Super-alloy."

Denis Goulet, O'Neill Professor of Education for Justice, lectured on "Technology Policy and Alternative Development Strategies," at the East-West Center's Culture Learning Institute in Honolulu, Hawaii, on June 3. Goulet conducted a seminar on "Integrated Rural Development in Chavakachcheri Electorate" at the University of Jaffna in Sri Lanka on July 11. Goulet also gave a seminar on "Difficult Questions for Development Planners" to the Ministry of Plan Implementation in Colombo, Sri Lanka on Aug. 8. He conducted a seminar on "New Trends of Research on Indigenous Values in Development" for the Sri Lanka Foundation Institute and Marga Institute in Colombo, Sri Lanka on Aug. 12.

Yasu Hosomatsu, assistant professor of management, presented a paper, "A Sufficient and Necessary Condition for a Rational Social Choice," at the annual national meeting of the Econometric Society, Sept. 5-7, Denver, Colo.

Julie Jensen, assistant professor of communication and theatre, directed Per Olaf Enquist's drama, "Night of the Tribades," this summer for Actors Renaissance Theatre, a professional theatre company in Detroit. The production ran in repertory with one other play through the month of August.

James A. Kargol, assistant professor of metallurgical engineering and materials science, coauthored a paper (with Department Chairman Nicholas F. Fiore) that was presented at the Third International Conference on Hydrogen in Metals at Jackson, Wy., on Aug. 30.

Julia F. Knight, assistant professor of mathematics, lectured on "Turing Degrees and Expansions of Structures" at the special session of the summer American Mathematical Society meeting held in Ann Arbor, Mich., on Aug. 20.

Peter J. Lombardo, assistant professional specialist in the Center for Continuing Education, spoke on "Oral History: Evidence" for the District 10 meeting of the Indiana Extension Homemakers Society, in South Bend, Sept. 9.

John R. Malone, professor of marketing, participated in the Management Development Program of the American Institute of Kitchen Dealers, Notre Dame C.C.E., July 21-25, conducting seminars in "Planning" and financial analysis. Malone also presented a paper, "America's Economic Challenge: The Road Out of Our Present Dilemma," at the summer meeting of Indiana Chapter of the International Association of Personnel in Employment Security, held on Aug. 8 in South Bend.

Thomas G. Marullo, assistant professor of modern and classical languages, was an invited participant in the National Endowment for the Humanities Seminar, "Russian Modernism," at Cornell University from June 12 - Aug. 8.

Rev. Ernan McMullin, professor of philosophy, gave the opening address, "Certainty: The Elusive Goal,"

at the Western Hemisphere Nutrition Congress held in Los Angeles, Aug. 11-15.

Thomas V. Merluzzi, assistant professor of psychology, presented a colloquium on "Approaches to Cognitive Assessment" to the Department of Psychology of Assumption College, Worcester, Mass., on June 3. Merluzzi and C.R. Glass presented a paper, "Assessment of Social Anxiety: Theoretical and Therapeutic Directions," in a symposium on "The Assessment, Function and Modification of Language-Mediated Cognitions" at the Third National Conference on Rational-Emotive Therapy, New York City, on June 6. On Sept. 3 he and T.E. Rudy presented a paper, "Toward an Information Processing Decision-Making Analysis of Assertive Behavior," as part of a symposium on "Current Issues and Research in Cognitive Assessment and Cognitive Behavioral Counseling" at the annual meeting of the American Psychological Association in Montreal. Merluzzi, C.R. Glass, J.L. Biever and K.H. Larsen also presented a paper, "Cognitive Assessment of Social Anxiety: Validation of a Self-Statement Questionnaire," at the same conference.

Marvin J. Miller, assistant professor of chemistry, presented a paper, "An Efficient N-Alkylation of Hydroxamic Acids: Application to the Synthesis of Microbial Iron Chelating Agents" at the Second Symposium on Development of Iron Chelators for Clinical Use (sponsored by the National Institutes of Arthritis, Metabolism and Digestive Diseases and the National Heart, Lung and Blood Institute) in San Francisco, Aug. 23. Miller also presented a paper, "Synthesis of B-Lactams from Substituted Hydroxamic Acids: Application to the Synthesis of 3-Aminonocardicinic Acid (3-ANA) Derivatives," at the Second Chemical Congress of the North American Continent, in Las Vegas, Nev., on Aug. 28.

Kenneth E. Moore, associate professor of sociology and anthropology, delivered a paper, "The Xuetas: Their Place in the Diaspora," at an international conference entitled "Mediterranean V," held at the Israel Academy of Sciences and Humanities in Jerusalem, Aug. 5-7.

Mark E. Nadel, assistant professor of mathematics, lectured on "The Completeness of Peano Multiplication" at the special session of the summer American Mathematical Society meeting held in Ann Arbor, Mich., on Aug. 20.

Daniel J. Pasto, professor of chemistry, gave a lecture, "Allene Cycloaddition Reactions: ($\pi^2_s + \pi^2_a$), [$\pi^2_s + (\pi^2_s + \pi^2_s)$] or Nonconcerted," before the Fifth IUPAC Conference on Physical Organic Chemistry, Santa Cruz, Calif., on Aug. 19.

Aleksis Rubulis, associate professor of modern and classical languages, spoke on "The Living Parish" at the Our Lady of Aglona Church in Chicago, Aug. 17.

John Santos, professor of psychology, led a round-table discussion and an open forum on "clinical training in aging" at the American Psychological Association meeting in Montreal, Canada, Sept. 6-7.

Konrad Schaum, chairman and professor of modern and classical languages, presented a paper, "Ideologie und Kulturkritik in Franz Grillparzers Dramen," at

the Sixth International Congress for Germanic Languages and Literatures held at Basel, Switzerland, Aug. 24-30.

Clagett G. Smith, professor of sociology and anthropology, presented the following paper (coauthored with John C. Gessner) "Differences in Male and Female Violence Orientations: An Exploratory Analysis of Multidimensional Attitudinal Correlates" at the 75th annual meeting of the American Sociological Association in New York City, Aug. 28.

Wilhem F. Stoll, professor of mathematics, gave colloquium talks on the classification of strictly parabolic spaces at the Universities of Tübingen (June 22), Freiburg (June 23), and Konstanz (June 27) in Germany and l'Aquila (July 1) in Italy. Stoll also gave a series of 12 lectures on "An Introduction to Value Distribution Theory of Meromorphic Maps" as one of the main invited speakers at the Summer Seminar on Complex Analysis held at the International Centre for Theoretical Physics in Miramare, Trieste, Italy, July 7-31.

Anthony M. Trozzolo, Huisking professor of chemistry, presented an invited lecture, "Photo-Induced Ring Opening of Strained Heterocycles" (coauthored with Thomas M. Leslie), at the Symposium on Strained Rings, Second Chemical Congress of the North American Continent, in Las Vegas, Nev., Aug. 24-29.

Arvind Varma, professor of chemical engineering, attended the Second Chemical Congress of the North American Continent held in Las Vegas, Aug. 25-27, and presented two papers: "A History of the Use of Mathematics in Chemical Engineering," and "Packed-Bed

Reactors: A Review," and chaired the session "Symposium on Industrial Applications of Chemical Reactor Engineering: Packed-Bed Reactors."

R. Brian Walsh, director of the Computing Center, delivered two invited addresses, "What the Future Holds: Computers, Society and Education" and "What Institutional Advancement Professionals Should Know About Computers," at the 1980 Council for Advancement and Support of Education Annual Assembly held in Detroit, Mich., July 7-10.

Eduardo E. Wolf, associate professor of chemical engineering, was an invited participant in the 7th International Congress on Catalysis in Tokyo, Japan, June 30-July 4. Wolf also presented a paper, "Catalytic Gasification of Coal," to the Chemical Engineering Department of the University of Tokyo, July 7.

Kwang-Tzu Yang, professor of aerospace and mechanical engineering, and William J. Martin of the Whirlpool Corporation, were issued a U.S. patent, No. 4,211,174, on July 8. The patent, entitled "Wet Oxidation of Coal for Generation of Heat Energy," includes 35 claims and is assigned to the Whirlpool Corporation. Yang chaired two technical sessions on "Numerical Techniques in Heat Transfer" at the National Heat Transfer Conference in Orlando, Fla., July 26-31. Yang also presented an invited talk, "Radiation Heat Transfer in Fins," in the Radiation Heat Transfer Workshop held in conjunction with the same conference. Yang served as a lecturer at the week-long Multi Protection Design Institute held in Battle Creek, Mich., Aug. 3-8, sponsored by the Federal Protection Management Agency.

advanced studies

information circulars

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

Extension 7432 or 4487 for information on federal government programs.

Extension 7433 for information on private foundations, corporations and state agencies.

Committee on Scholarly Communication with the People's Republic of China (CSCPRC) Programs of Scholarly Exchange Between the U.S. and China—1981-1982

No. FY81-92

Program:

This program offers opportunities for graduate students and postdoctoral scholars to carry out long-term study or research in affiliation with Chinese universities and research institutes. Fellowships and grants are available for individuals in the sciences and engineering and in the social sciences and humanities.

The Graduate Program:

The graduate program offers support for individuals beyond the bachelor's level who have not obtained a Ph.D. for one of the following: language study at the Beijing Languages Institute; course work at Chinese universities; research (including dissertation research) at Chinese universities (M.A. or equivalent required). Requires high degree of Chinese language skill. Minimum tenure of 10 months, maximum, one year.

The Research Program:

The research program awards research support grants to scholars with Ph.D. or equivalent. Involves tenure of three months to a year in the sciences and engineering, six months to a year in the social sciences and humanities; involves no minimum language requirement.

Deadline:

Postmark/mailling deadline for applications is Nov. 7, 1980.

Conferences:

Contingent on the availability of funds, the CSCPRC

notes for principal investigators

National Science Foundation Revision of Forms

To reduce paperwork and streamline the processing of proposals, the National Science Foundation recently reviewed and revised some of its proposal processing forms, including the project summary (NSF Form 4) and the summary proposal budget (NSF Form 1030), which we are requiring with each proposal.

Effective immediately, the revised NSF Forms 4 and 1030 should be used as the formats for preparing summaries and budgets rather than those contained in the Grant Policy Manual (Oct. 1979 revision) and the Grants for Scientific Research brochure (NSF 78-41).

A supply of the new forms is available at the Office of Research and Sponsored Programs.

will continue to sponsor a limited number of conferences involving Chinese and American research scholars. Postmark/mailling deadline for proposals is Dec. 1, 1980.

Address Requests To:

CSCPRC
National Academy of Sciences
2101 Constitution Avenue, N.W.
Washington, D.C. 20418

**John D. and Catherine T. MacArthur Foundation
Interdisciplinary Award Program
in Mental Health**

No. FY81-93

Program:

The John D. and Catherine T. MacArthur Foundation has announced the initiation of an experimental program to encourage interdisciplinary communication and collaboration in research and research training related to mental health. The program should serve as a catalyst in promoting improved communication and collaboration among disciplines that might otherwise be more difficult to achieve. It is not intended to provide support for on-going established programs. A grant might be used for establishing interdisciplinary research seminars or fostering collaborative research training or research efforts. For example, investigators from a variety of disciplines, child psychiatry, neurosciences, developmental psychology, pediatrics, primatology, ethology, might propose a continuing "working" seminar on research in a particular area such as developmental psychobiology.

Award:

Not to exceed \$10,000.

Deadline:

None given.

Proposal Guidelines:

For proposal guidelines, contact the Office of Advanced Studies, Division of Research and Sponsored Programs, Extension 7433.

**Woodrow Wilson National
Fellowship Foundation
Women's Studies Research Grants for
Doctoral Candidates—1980-1981**

No. FY81-94

Purpose:

To encourage original and significant research about women on such topics as the evolution of women's role in society and particularly contemporary America, women in history, the psychology of women, and women

as seen in literature.

Eligibility:

Students in doctoral programs who have completed all predissertation requirements in any field of study at graduate schools in the United States.

Award:

Grants will average \$1,000.

Deadline:

Last day to request applications:	Nov. 14, 1980.
Receipt of all materials:	Dec. 1, 1980.
Notification of awards:	Jan. 30, 1981.
Payment of grant:	Feb. 20, 1981.

Application:

Application forms are available from:

Woodrow Wilson National Fellowship Foundation
Women's Studies Program
Box 642
Princeton, New Jersey 08540

**National Science Foundation
NATO Postdoctoral Fellowships in
Science for 1980-1981**

No. FY81-95

Program:

The National Science Foundation administers the NATO Postdoctoral Fellowships Program for U.S. citizens at the request of the U.S. Department of State. Approximately 50 awards will be offered in late February 1981 for further research and/or study in the sciences at institutions outside the United States.

Awards of these fellowships will be made for appropriate work in the mathematical, physical, biological, engineering and social sciences, as well as interdisciplinary areas comprised of two or more of these fields. Awards will not be made in clinical, education or business fields, nor in history, social work or public health.

NATO Postdoctoral Fellowships in Science will be offered only to persons who 1) are citizens or nationals of the United States as of the closing dates for applications, 2) will have earned by the beginning of their fellowship tenures a Ph.D. in one of those fields, and 3) will have held the doctorate for no more than five years as of the closing date for applications. Women and minority scientists who meet the eligibility criteria are specifically encouraged to apply.

A fellow may elect a full-time tenure of nine to 12 months; in no case may it be less than six nor more than 12 months.

The stipend for a NATO postdoctoral fellow is \$1,150 per month up to 12 months. Dependency allowances are \$75 per month for a dependent spouse and each of not more than two dependent children for up to 12 months. The travel allowance, including that for dependents, is \$2,400 for the total fellowship tenure.

Application materials may be obtained from the Division of Scientific Personnel Improvement, National Science Foundation, NATO Fellowship Program Office, Washington, D.C. 20550. The deadline for submitting applications for NATO postdoctoral fellowships is Nov. 3, 1980. Applications submitted by mail must be postmarked no later than this date.

The Newspaper Fund Newspaper Fund Internships and Scholarships

No. FY81-96

Editing Internship Program:

The Editing Internship Program puts selected college students to work for a full summer on daily newspaper and wire services copydesks. Interns become proficient in all phases of copyediting and headline writing and sharpen their skills for professional news work. The internships are intended for students who have a demonstrated commitment to newspaper work as a career, who have completed their junior year of college and who will be college seniors in the fall following the internship. Stipend is \$700.

Minority Internship Program:

The Minority Internship Program will involve minority graduate students, both from journalism and nonjournalism areas, who have a demonstrated interest and talent in news reporting and editing. The program is intended only for minority students who will be enrolled in graduate studies of any kind in the fall following the internship. Stipend is \$1,000.

Deadline:

Deadline for both programs is Nov. 27, 1980.

Applications:

For application forms write to:

The Newspaper Fund
P.O. Box 300
Princeton, New Jersey 08540

The Henry Luce Foundation, Inc. The Luce Scholars Program

No. FY81-97

Program:

The Luce Scholars Program is an expression of the Henry Luce Foundation's interest in improving American understanding of Asia. Fifteen young Americans of outstanding promise are sent each year to the Far East for professional apprenticeships. The program is directed toward those who are not Asian specialists. Students of Asian studies or of international affairs are specifically excluded in favor of young men and women with professional interests that may range anywhere from architecture to zoology.

The program is experiential rather than academic.

No academic credit is involved and participants are not normally enrolled in academic institutions.

The Program Year:

The program runs 11 months. Meeting as a group in late August for a one week orientation at Princeton University, the scholars travel to Hong Kong for a series of seminars. The year concludes the following July with a final evaluation session at a site in Asia. The heart of the program lies in individual job placement. These assignments last from mid-September through June and are devised to suit the professional interests and abilities of each Luce scholar.

Stipend:

Luce scholars receive a significant basic stipend and a separate cost-of-living allowance. Economy class air transportation is provided, as is a modest allowance for shipment of personal effects.

Eligibility:

Candidates must be American citizens, no more than 29 years of age at the time they enter the program, and recipients of at least a bachelor's degree. Graduating seniors may be nominated if the award of the degree is assured prior to departure for Asia.

Procedure:

Candidates must be nominated by one of the 60 American colleges and universities that have been invited to take part in the program. Notre Dame is one of the nominating institutions.

Deadline:

Nominations must be forwarded to the foundation early in December. The selection process is normally completed by March 15.

For Further Information, Contact:

The Henry Luce Foundation, Inc.
111 West 50th Street
New York, New York 10020
Telephone: (212) 489-7700

The German Marshall Fund of the United States— German Marshall Fund Fellowship Program—1981

No. FY81-98

Program:

The German Marshall Fund Fellowships Program is designed to contribute to a better understanding of significant contemporary problems common to industrialized societies. Projects should focus on comparative political, economic and social aspects of domestic and international problems. Each project must include the United States and at least one European country and other countries if desired. Research on the following subjects is of particular interest: Employment and nature of jobs: programs for the hard-to-employ and disadvantaged; health, safety and other working conditions; labor force participation by women, youth and the elderly; and effect of new technologies on jobs. Innovations and alternatives in service delivery: private/public partnerships; deinstitutionalization and innovative arrangements for the delivery of social services to families,

women, youth and the elderly and public services such as housing, transportation and community employment; innovations and alternatives in criminal and juvenile justice administration. Public participation in decision-making: the involvement of citizens and voluntary organizations in the planning and implementation of policies concerning environment, consumer issues, neighborhood development and housing. Foreign workers and migrant populations in industrialized countries: issues of employment, education, welfare and civil rights. International interdependence: trade monetary, and related questions, excluding military, security and defense matters. The fund attaches priority to the foregoing topics but will consider outstanding projects focused on other problems common to industrial societies.

Eligibility:

In general, GMF fellows are established scholars with advanced degrees in the social sciences.

Stipend:

Within a fixed maximum (\$36,000 in 1979-80) the fellowship will meet, but not exceed, a fellow's current income.

Deadline:

Applications must be postmarked no later than Nov. 30, 1980. Application forms available through the Office of Advanced Studies, Division of Research and Sponsored Programs.

**National Science Foundation
Science Faculty Professional
Development Program**

No. FY81-99

Goal and Scope:

The objective of the Science Faculty Professional Development Program is to improve undergraduate science teaching in two- and four-year colleges and universities in the United States and thereby to improve the capabilities of their students in meeting current employment requirements. To accomplish this, awards will be offered to experienced college and university science teachers to pursue three to 12 months of research study for the purpose of enhancing their instruction of undergraduate students at their home institutions.

Approximately 70-90 Science Faculty Professional Development grants are anticipated this year, subject to the availability of funds. These will be announced in mid-April 1981. Awards are made for study or work in the mathematical, physical, medical, biological, engineering and social sciences, and the history and philosophy of science. Interdisciplinary work is encouraged. Awards are not made in clinical education or business fields nor in history or social work.

Eligibility:

National Science Foundation Science Faculty Professional Development awards will be offered only to persons who as of Jan. 5, 1981, A) are citizens or nationals of the United States, B) hold at least a baccalaureate, C) hold a full-time academic appointment in a college or university located in the U.S. or its territories, D) will not previously have held a Science Faculty Professional Development award and E) will have had five or more academic years experi-

ence in teaching. Such teaching must be primarily at the undergraduate level, in science, mathematics or engineering and as a full-time staff member with rank of instructor or higher.

Applications are encouraged from science faculty with or without doctoral degrees and teaching at either two-year or four-year institutions.

Location of Work:

Grants are awarded for scientific study or scientific work at any appropriate United States or foreign institution. Appropriate institutions for this program include any academic or nonacademic institution, public or private, profit or nonprofit, having facilities or programs for ongoing scientific research or study which are appropriate for the professional development of the applicant. An applicant planning to study outside the United States must state specifically the particular scientific benefits that would accrue from attendance at the proposed foreign institution. Grantees may not affiliate with their home institutions, and preferably not with an institution in close proximity to their home institution.

Stipends and Allowances:

The foundation will provide a stipend and a travel allowance to the grantee, and an activities support allowance to the institution or organization of affiliation.

Tenure:

Applicants may request tenures of no less than three months nor more than 12 months.

A grantee on a tenure period less than four months may not affiliate with an institution outside the United States, Canada or Mexico.

Grantees may begin tenure at any time after the date of the award of a grant but no later than Oct. 1, 1982 and must conclude tenure no later than Oct. 1, 1984.

Activities Program:

Each applicant must submit an "activities program" - an individualized, professional development plan of graduate- or postdoctoral-level study or research in one or more of the fields in which the foundation offers awards. Evaluation of the application is based primarily on the activities program proposed.

For Further Information, Contact:

Office of Advanced Studies, Division of Research and Sponsored Programs, Extension 7378 or 4487.

Application Materials:

To be eligible for consideration, an application must be completed and submitted on standard forms provided by the foundation. An application submitted in any other form will not be accepted.

Application materials may be obtained from the Science Faculty Professional Development Program, Division of Scientific Personnel Improvement, National Science Foundation, Washington, D.C. 20550. The deadline for filing applications for Science Faculty Professional Development awards is Jan. 5, 1981. To be considered, an application must be received or postmarked no later than that date.

National Science Foundation Program for the Analysis of Science Resources

No. FY81-100

Program:

The Division of Science Resources Studies (SRS) of the National Science Foundation (NSF) is responsible for the development and analysis of data pertaining to the Nation's scientific and technological endeavors, from which a number of analytical reports are prepared and published. SRS welcomes proposals for studies under its program for the analysis of science resources. These studies are expected to focus on:

- Training and employment of scientific and technical personnel;
- Funding of scientific and technical activities;
- Scientific and technical employment forecasting activities; and
- Quantitative studies of the impacts and outputs of scientific and technological activities.

This program seeks:

- Development of in-depth and issue-oriented analyses of scientific and technical personnel and/or science and technology funding and performance using SRS and related data;
- Development of new or improved techniques for analyzing science resources data and their relationship with other variables;
- Development of forecasts and forecasting techniques for 1) demand and supply of scientific and technical personnel, and 2) R&D expenditures;
- Development of new indicators measuring impacts and outputs of scientific and technological activity, particularly, though not exclusively, indicators of technological innovation; and
- Development of modeling techniques that describe key interactions among important components of the economic system as they relate to science and technology.

Proposals may be submitted at any time but those received after the week of Nov. 15 will probably not be considered for funding until the next fiscal year.

AREAS OF INTEREST

Proposals will be considered which use SRS and/or other data bases and relate to SRS's areas of interest. While these interests may vary from year to year depending on the nature of science policy concerns, the following examples illustrate some types of analyses and areas of interest:

- Exploratory studies of new quantitative indicators of the output of research, development and of the other phases of science and technology including assessment of the feasibility of proposed methods. Promising exploratory results may be followed by awards for full implementation.
- Analyses of the significance of patent counts as indicators of various aspects of science and technology.
- The impact of technological change on the employment of scientific and technical personnel. Changing technologies may require changes in the content of educational preparation and in the level and mix of

scientists, engineers and technicians.

- The utilization of scientists and engineers in private industry.
- Analyses of career decisions and labor force behavior of scientists and engineers.
- The utilization of Ph.D's in private industry.
- Development of new quantitative indicators of levels of technological innovation.
- The relationship between indicators of inputs to the R&D process, such as R&D expenditures, and measures taken to be indicators of its outputs, such as productivity growth.
- Projections of scientific and engineering employment and R&D funding.
- Measures of the R&D capability of small business, e.g., the rate of formation and survival of technologically oriented small firms and their level of performance of research and development.
- Development of new indicators of analyses of the scientific capabilities or technological activities of nations, comparing countries or reflecting international scientific interaction and cooperation.

While data and analysis may frequently be enhanced by personal interviews for interpretative information, applicants should be aware of privacy considerations prohibiting the foundation from providing information received in confidence which permits identification of individual respondents (persons or organizations.)

PREPARATION AND SUBMISSION OF PROPOSALS

Who May Submit:

Proposals may be submitted by colleges, universities, units of government (state, local or federal), non-profit or commercial organizations or combinations of such organizations. Awards to individuals without organizational affiliation are rare but not precluded and such individuals contemplating a request for support should contact the appropriate program officer.

Inquiries on the Program for Science Resources: personnel, funding, impact and output analyses should be addressed to:

Personnel and related areas:

Morris Cobern (Tel: (202) 634-4655)

Science and technology funding:

Norman Friedman (Tel: (202) 634-4625)

Science and technology outputs:

Donald Buzzeli (Tel: (202) 634-4682)

Division of Science Resources Studies
National Science Foundation
1800 G Street, N.W.
Washington, D.C. 20550

National Science Foundation Applied Social and Behavioral Sciences Research Initiation Grants

No. FY81-101

General:

The National Science Foundation is charged, in part, to initiate and support scientific research which can be applied to improving understanding of a broad

range of behavioral, social, economic, technological and policy problems, or which can improve the rate of technological innovation growing out of significant discoveries in various fields of science and engineering. In response to this purpose, the foundation seeks to provide opportunities in applied social, economic and behavioral research for new investigators through an applied social and behavioral science research initiation grants program. This program is directed toward full-time social and behavioral science faculty members who have had no substantial research support.

The division will not support clinical medical research, commercially oriented marketing analyses, projects which appear to fall under research programs of other agencies or projects of a purely basic scientific nature.

Eligibility:

One proposal may be submitted on behalf of an individual who:

1. is an assistant professor or associate professor holding a full-time regular teaching appointment in any recognized academic unit of institution of higher learning within the U.S. that confers degrees in the social and behavioral sciences and;
2. will, by Dec. 15, 1980, have held the doctoral degree in one of the social or behavioral sciences for not more than five years;
3. has not previously received a grant as a principal investigator for scientific research from an agency of the U.S. government.

Preparation and Submission of Proposals:

The proposal should be prepared in accordance with instructions in the NSF booklet "Grants for Scientific Research" (NSF 78-41). This publication may be obtained by writing: Publications, National Science Foundation, Washington, D.C. 20550. The proposal must in addition, contain a specific statement of the application potential of the proposed research.

The proposal must be postmarked no later than Dec. 15, 1980 to be eligible for consideration. Each investigator will be permitted to submit only one proposal.

Terms and Conditions:

- A. Participation: It is expected that the investigator will devote at least one-fourth time during the academic year and may devote two full summer months per academic year during the term of the grant period to the research on the campus of the submitting institution.
- B. Financial Provisions: The duration of the grant will not exceed 24 months. The funds provided may be used to defray such costs as the expendable supplies, travel, publication costs, permanent equipment, computer time, student support and the investigator's salary support during the academic year. The foundation reserves the right to make adjustments in budget categories.

Budgets will be prepared on the above basis. Budgets may not exceed \$40,000, for up to two years, including indirect costs, for funds requested from the foundation.

Research initiation awards supported under this program are not renewable. However, proposals for

additional research on the problem or in the problem area may be made outside the research initiation program, i.e., through the regular applied research program.

- C. Responsibilities of the Principal Investigator: Operating within the policies and procedures of the parent institution, and within the Guidelines contained in NSF 78-41, the principal investigator is responsible for the direction of the project and for the preparation of the technical reports to NSF. The final technical report to NSF should be prepared in accordance with normal foundation policy.
- D. Awards: If the proposal is approved for support, a grant will be awarded to the institution of higher education whose authorized administrative official endorsed the proposal. The grant letter will prescribe that the grant is to be administered in accord with the applicable policies and procedures contained in the grant general conditions (FL 118), which summarizes selected grant administration information.

Awards are expected to be announced in May, 1981. The earliest starting date which may be requested is June 15, 1981.

Further Information:

For further information and instructions on preparing the proposal contact Office of Advanced Studies, Division of Research and Sponsored Programs, extension 7378 or 4487.

National Science Foundation National Center for Scientific Research United States-France Exchange of Scholars

No. FY81-102

Program:

In furtherance of a decision by the governments of France and the United States of America to develop scientific and technical cooperation, a program for exchange of young scientists is jointly sponsored and administered by the National Science Foundation of the U.S. and the National Center for Scientific Research of France. Exchange awards are made for study or work in the mathematical, physical, chemical, engineering, biological and social sciences including economics. Awards will not be made in the medical sciences or in education or business fields.

Eligibility, Location and Duration of Work:

Eligible individuals are citizens or nationals of the U.S. and France who will have earned in the science areas designated in the preceding paragraph a doctoral degree or its equivalent, not more than five years prior to the commencement of the exchange visit. Foreign nationals in the U.S. with permanent resident status are not eligible to apply for awards under this program.

Eligible institutions are, for French candidates, any appropriate nonprofit U.S. institution, and for American candidates, any appropriate nonprofit French institution. Appropriate nonprofit institutions in this program will be institutions of higher educa-

tion; government research institutes, laboratories or centers; and privately sponsored nonprofit institutes.

The period of the exchange visit should be between five and 15 months. Shorter or longer visits or extensions of time, may be approved upon adequate justification when recommended by the host institution.

Stipends and Allowances:

Awards under this program will be jointly funded by the National Science Foundation (NSF) and the National Center for Scientific Research (CNRS). Each agency plans to offer about 18 awards.

Application and Selection:

An individual wishing to apply for an award under this program may obtain necessary instructions and application materials from the administering agency of his country, the National Science Foundation (Division of International Programs, 1800 G Street, N.W., Washington, D.C. 20550) for American candidates and the National Center for Scientific Research (Division des Relations Exterieures, 15, Quai Anatole France, 75007 Paris) for French candidates.

**Social Science Research Council
Fellowships for Doctoral Research in
Employment and Training**

No. FY81-103

Program:

To develop greater capability in the social and behavioral sciences related to employment and training and to increase the availability of experts as program administrators, specialists and researchers; to invite the attention of doctoral candidates to the nation's employment and training programs; to guide social and behavioral science research toward employment and training policy and program issues and problems.

Eligibility:

Doctoral candidates who have completed all requirements for the degree except the dissertation, or who will have met these requirements before the award becomes effective.

Guidelines:

Guidelines may be obtained from:

Dissertation Fellowships in Employment and Training
Social Science Research Council
1755 Massachusetts Avenue, N.W., Suite 410
Washington, D.C. 20036
Telephone: (202) 667-8884

Deadline:

Dec. 1, 1980; March 1, 1981 and June 1, 1981.

Stipend:

Maximum award is \$10,000, including stipend (\$4,500), dependency allowance, clerical assistance, materials and supplies, etc.

Study Areas:

The following is only a sampling: career development; discrimination in employment; energy and employment; job opportunities and workers shortages; productivity; quality of work life; sheltered employment; transition

from school to work and from work to retirement; work and welfare; etc.

**Technicon Instruments Corporation
Program of Grants for Research in Biomedical
and Industrial Instrumentation—1980-1981**

No. FY81-104

Program:

To identify and support significant academic research on novel concepts or technologies in biomedical and industrial instrumentation, which can establish the basis for the development of products with significant commercial value.

Awards:

A maximum of \$100,000 for a one-year period, covering direct and indirect costs.

Scope:

Both basic and applied research proposals will be considered. The following examples are illustrative and do not represent the limits of suitable proposals: new and improved diagnostic procedures that are of broad utility and adaptable to automation for the determination of the chemical constituents of body fluids, for measurement of enzyme activities, for the differentiation of cells and viruses, and for other common and important medical laboratory tests; the noninvasive measurement of flow in individual blood vessels, of cardiac function or other physiological parameters of significant diagnostic importance; development of new analytical detectors and new approaches to analytical techniques of ultra-high sensitivity or improved specificity or having other important advantages; automated instrumentation and methods for the analysis and characterization of a wide variety of materials, including agricultural products, drug preparations, minerals and other industrial products; instrumentation for industrial process and control and for pollution analysis and control; novel procedures for the analysis and inspection of food products, including the detection of contaminants and decomposition.

Eligibility:

Open to faculty members.

Deadline:

Proposals are welcome at any time.

Application:

Application forms and detailed guidelines are available from the Office of Advanced Studies, Division of Research and Sponsored Programs.

**National Aeronautics and Space Administration
Graduate Student Researchers
Program—1981**

No. FY81-105

Program:

The NASA Graduate Student Researchers Program is designed to significantly increase the number of highly trained scientists and engineers in aeronautics, space science, space applications and space technology to meet the continuing needs of the national aerospace effort.

Each year NASA will provide an opportunity for about 40 graduate students in aerospace science and technology to conduct their thesis research at a NASA center. Selections will be made on the basis of a proposal by the student's faculty advisor in a research area identified by NASA. Final project assignments will be made after an in-depth discussion of the project with the student, faculty advisor, NASA center project monitor and NASA supervisor.

Specific research areas are identified each year by the directors of the various NASA centers. These areas are selected especially to provide the student opportunities to work on a project of high priority to NASA, to use unique NASA equipment and facilities and to interact with senior NASA research personnel.

Submission of Proposal:

Guidelines for submission of proposals are available in the Office of Advanced Studies, Division of Research and Sponsored Programs.

Deadline:

Feb. 1, 1981.

National Science Foundation Science for Citizens Planning Studies

No. FY81-106

Introduction:

The Science for Citizens program of the National Science Foundation provides support for activities which:

- encourage scientists to participate in public activities aimed at the resolution of local or regional policy issues with significant scientific and technological aspects and
- provide scientific and technical expertise to citizens and citizen groups so that they can better understand and participate in decisions on local or regional policy issues involving science and technology.

SFC Planning Studies:

An SFC planning study should have the following characteristics:

- The study should explore new ways (or extend the scope of existing ways) to achieve the constructive interaction of scientists and nonscientists in your community.
- The study should involve representatives of citizens and citizen groups that normally lack access to scientific and technical expertise.
- Representatives of these groups should be actively involved in defining the clientele, management and activities appropriate for a center or network.
- Procedures should be established to insure that all important points of view will be represented in study management, discussions, materials and reports, and that a balanced exploration of the issues and initiatives addressed in the study will occur.
- The study should be suitably publicized, events and outcomes should be recorded, follow-up activities should be initiated so that the results or conclusions are widely disseminated and measures should

be taken to assess the success or failure of study activities.

The mechanisms that result from SFC planning studies can be thought of as public service science centers or networks. Whatever their form, they should involve citizens and citizen groups which normally have little or no access to scientific and technical information and expertise in setting their priorities and establishing their policies. They should involve a wide range of competent scientists and engineers in research and discussion on issues of community concern. Insofar as possible, they should draw on their communities' educational resources and provide a neutral forum in which representatives of divergent views can be heard. They should develop improved lines of communication among citizen groups, the educational and scientific communities and policymakers on community issues that involve science and technology. They should undertake and encourage any or all of the following activities:

- short-term, small-scale research on specific problems associated with locally important science-related current issues;
- collection, analysis and dissemination of timely and intelligible scientific and technical information on these problems;
- planning, workshop and follow-up activities for balanced and objective public discussion of locally important science-related issues and;
- programs of informal education to develop greater public understanding of the scientific and technical aspects of community issues.

Who May Apply:

Applicants may be a tax-exempt citizens' group or community organization; an education institution or an organization which: 1) is operated primarily for scientific, education, service, charitable or similar purposes in the public interest; 2) is not organized primarily for profit and; 3) uses all income exceeding costs to maintain, improve and/or expand its operation.

Closing Dates:

All formal proposals should be mailed to the foundation on or before March 15 or Sept. 15. Late arrival of a proposal may exclude it from consideration for an award.

National Science Foundation NSF Chautauqua Short Courses for College Teachers American Association for the Advancement of Science

No. FY81-107

Program:

The NSF Chautauqua Short Courses are an annual series of forums throughout the U.S. in which scholars at the frontiers of various sciences meet with undergraduate college teachers of science intensively for four days. The forums provide an opportunity for invited scholars to communicate new knowledge, new advances and new concepts and techniques directly to college teachers and in ways that are immediately beneficial to their teaching. The primary aim is to enable un-

dergraduate teachers in the sciences to keep their teaching up-to-date and relevant to today's world.

Several types of courses are offered. Some are discipline-oriented and others cut across disciplines. The interdisciplinary courses focus on major problems of science, technology and society - all of which involve a variety of scientific and technological specialties and which can be studied and attacked best by a symphonic rather than a solo approach.

The program is a cooperative enterprise which involves the college teachers who participate with the encouragement of their home institutions; the various scholars who teach the short courses (course directors): the 12 regional field centers that are responsible for regional publicity, selection of participants and hosting the short courses; the American Association for the Advancement of Science (AAAS), which develops the program of courses and together with the Support Field Center (University of Georgia) jointly administers national aspects of the program; and the National Science Foundation, which provides overall support.

Eligibility:

In general, teachers of undergraduate students in degree-granting institutions of higher education in the U.S. whose teaching responsibilities are in the natural and social sciences, mathematics and engineering are eligible for participation. In some interdisciplinary courses, a few teachers in other fields will be admitted when this would enhance the effectiveness of the course. Also eligible are science and engineering professionals from industry and other nonacademic settings.

Deadline:

Application should be made as early as possible, for field centers make their selections about four weeks prior to the beginning of a course. However, applications will be considered on a space-available basis until the start of the course.

Further Information:

A listing of courses and guidelines for submission of applications are available in the Office of Advanced Studies, Division of Research and Sponsored Programs.

Lilly Endowment Faculty Open Fellowships—1980-1981

No. FY81-108

Program:

The Lilly Endowment has announced its seventh com-

petition for its Faculty Open Fellowships. The endowment seeks to identify faculty of real ability whose aspirations and needs cannot be served by conventional fellowships for study and research. It hopes to find teacher/scholars in mid-career who seek a break from academic routine through which they can hope for enrichment as persons and as teachers. It may mean using the fellowships to test or apply theory in "real life" settings; for others, it may mean a period of reading and reflection on the overall enterprise of teaching and curriculum building.

Eligibility:

To be eligible, a candidate must have a member of the faculty at his or her institution for a minimum of five years. Both the fellow and the institution must plan for his or her return after use of the award. The candidate must be engaged in classroom teaching for at least 50 per cent of his or her time. If a candidate is entitled to a semester or year's sabbatical pay from the institution, this must be declared in the application and reflected in the application budget.

Deadline:

The final date for filing nominations and applications is Dec. 1, 1980.

All proposals must be routed through the Office of Advanced Studies, Division of Research and Sponsored Programs, with routing form, internal budget and required number of copies.

Timetable:

- Sept.-Oct.: Application forms available from the Office of Advanced Studies, Division of Research and Sponsored Programs.
- Oct. 9: Informational meeting for applicants. Time and place to be announced.
- Nov. 3: Proposals due in Office of Advanced Studies. Each proposal will be reviewed and if problems are noted, the candidate will be so informed and have time to make corrections.
- Nov. 6: Proposals to Provost Office.
- Nov. 17: Proposals to members of the Lilly Endowment Selection Committee. The committee, which will rank proposals, represents each college, the Law School, the Office of Advanced Studies and previous fellowship winners.
- Nov. 19: Final selection of three proposals and cover letter by Prof. Timothy O'Meara, Provost.

monthly summary

Awards Received

IN THE MONTH OF AUGUST, 1980

Department or Office	Principal	Short title	Sponsor	Dollars Months
AWARDS FOR RESEARCH				
Electrical Eng.	Liu	Fault analysis of large-scale analog systems	U.S. Navy	740 225
S. Bend Ctr. Med. Ed.	Olson	Vascular pathways in fish gills/ their functions in respiration	Natl. Sci. Fdn.	32,000 18
Cent. Study Man	Aldous, Klein	Family size and later kin contacts: A pilot study	Natl. Inst. Health	33,158 12
Metallurgical Eng.	Kosel, Fiore	Abrasion in wear-resistant steels	Deere and Co.	3,600 --
Electrical Eng.	Sain	Alternatives for jet engine control	Natl. Aero. Space Admin.	60,000 12
Metallurgical Eng.	Kargol, Fiore	Hydrogen behavior in coated/uncoated low-alloy steels	U.S. Army	30,068 12
Civil Eng.	Theis, Kirkner, Jennings	Hydrodynamic, chemical modeling of heavy metals in ash pond leachates	Dept. Energy	130,500 18
Biology	Tweedell	Comparison of tumor cell and viral membrane antigens in lucke tumor	Phi Beta Psi Sorority	4,000 12
Chemistry	Nowak	NMR studies of metals in kinases and related enzymes	Natl. Inst. Health	70,990 12
Chemical Eng.	Schmitz	Oscillatory catalytic reactions and their kinetic models	Natl. Sci. Fdn.	44,100 24
Aerospace Mech. Eng.	Nelson	Influence of angle of attack and angular rates on derivatives	U.S. Air Force	37,419 12
Aerospace Mech. Eng.	Kanury	Response mechanism: Blast/fire interaction	Fed. Emergency Mgt. Agency	87,260 24
AWARDS FOR FACILITIES AND EQUIPMENT				
Aerospace Mech. Eng.	Brach	Computer equipment for mechanical engineering design	Bethlehem Steel Corp.	10,000 12
Physics	Mihelich, Kolata	Addition to the computer system of the nuclear structure laboratory	Natl. Sci. Fdn.	73,275 12
AWARDS FOR EDUCATIONAL PROGRAMS				
Civil Eng.	Irvine	Environmental health engineering training program	Envir. Prot. Agency	5,899 12
Psychology	Borkowski, Whitman	Research training in mental retardation	Natl. Inst. Health	58,380 12
Advanced Studies	Gordon	Graduate fellowship support grant	Natl. Sci. Fdn.	7,720 --
AWARDS FOR SERVICE PROGRAMS				
Inst. Urban Studies	Smith, Broden	Food and nutrition program	Ind. Dept. Public Instr.	11,756 1.5

Proposals Submitted

IN THE MONTH OF AUGUST, 1980

Department or Office	Principal	Short title	Sponsor	Dollars Months
PROPOSALS FOR RESEARCH				
Philosophy	LePore	Quantification and variable binding in English	Natl. Sci. Fdn.	12,130 4.5
Aerospace Mech. Eng.	Batill	Development or design procedures for wind tunnel contractions	U.S. Air Force	77,817 24

(Proposals Submitted continued)

Department or Office	Principal	Short title	Sponsor	Dollars Months
Civil Eng.	Katona	Development of plasticity material model, ADINA finite element program	U.S. Navy	21,986 12
Aerospace Mech. Eng.	Huang	Stress analysis of textured yarns	Natl. Sci. Fdn.	103,555 24
Microbiology- Lobund Lab.	Pollard, Schlager	Nomination for Alfred P. Sloan research fellowship	Alfred P. Sloan Fdn.	20,000 24
Aerospace Mech. Eng.	Atassi	Aerodynamics of airfoils subject to three-dimensional gusts	U.S. Air Force	63,389 12
Microbiology- Lobund Lab.	Marshall, Pollard	Synthetic carbohydrate protein conjugates	Natl. Inst. Health	36,685 7
Chemistry	Basu, Kim	Studies on inhibitions of DNA poly- merase by mouse liver	Leukemia Soc. Am., Inc.	42,492 24
Chemical Eng.	Kohn	Liquid-liquid-vapor equilibria in WG Systems	Gas Process. Assocn.	23,443 9
PROPOSALS FOR EDUCATIONAL PROGRAMS				
Natl. Ctr. Law Handcpd.	Soskin	Rehabilitation short-term training of national scope	U.S. Dept. Educ.	101,215 12
Earth Sciences	Murphy, James	Proposal to attract minority students to major in Geology	(private corp.)	81,045 2
Natl. Ctr. Law Handcpd.	Soskin	Specialized legal information for organization serving handicapped	U.S. Dept. Educ.	221,797 36

summary of awards received and proposals submitted

IN THE MONTH OF AUGUST, 1980

AWARDS RECEIVED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	9	\$ 405,656	3	\$ 128,679	12	\$ 534,335
Facilities and Equipment	-	- - -	2	83,275	2	83,275
Educational Programs	3	71,999	-	- - -	3	71,999
Service Programs	-	- - -	1	11,756	1	11,756
Total	12	\$ 477,655	6	\$ 223,710	18	\$ 701,365

PROPOSALS SUBMITTED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	3	\$ 123,517	6	\$ 277,980	9	\$ 401,497
Facilities and Equipment	-	- - -	-	- - -	-	- - -
Educational Programs	-	- - -	3	404,057	3	404,057
Service Programs	-	- - -	-	- - -	-	- - -
Total	3	\$ 123,517	9	\$ 682,037	12	\$ 805,554

closing dates for selected sponsored programs

Proposals must be submitted to the Office of Research and Sponsored Programs seven (7) calendar days prior to the deadline dates listed below.

Agency	Programs	Application Closing Dates
American Association of University Women Education Foundation	Fellowships for Women	Dec. 15, 1980

American Council of Learned Societies	ACLS Grants-In-Aid	Dec. 15, 1980
American Council of Learned Societies	ACLS-SSRC Grants for East European Studies	Dec. 1, 1980
American Philosophical Society	Research Proposals	Dec. 12, 1980
Argonne National Laboratory	Faculty Research Participation Program	Jan. 9, 1981
The Council for European Studies	Research Planning Group (RPG) Awards	Dec. 1, 1980
Damon Runyon-Walter Winchell Cancer Fund	Fellowship Grants in Cancer Research	Dec. 15, 1980
The Ford Foundation	Dual Expertise Fellowship Program	Jan. 1, 1981
German Marshall Fund of the United States	Fellowship Program	Nov. 30, 1980
International Research and Exchange Board	Summer Exchange of Language Teachers with the Ministry of Higher and Specialized Secondary Education	Jan. 10, 1981
International Union Against Cancer	The Yamagiwa-Yoshida Memorial International Cancer Study Grants	Dec. 31, 1980
The Jane Coffin Childs Memorial Fund for Medical Research	Fellowship Awards	Jan. 1, 1981
The Jane Coffin Childs Memorial Fund for Medical Research	Grants-in-Aid	Jan. 1, 1981
National Center for Atmospheric Research	Postdoctoral Appointments	Jan. 15, 1981
National Gallery of Art	Graduate Fellowships in the History of Art	Nov. 30, 1980
National Institutes of Health	International Research Fellowships	Dec. 1, 1980
National Institutes of Health	Swedish Medical Research Council Postdoctoral Research Fellowships	Dec. 1, 1980
National Institutes of Health	Swiss National Science Foundation Postdoctoral Research Fellowships	Dec. 1, 1980
National Research Council	Atmospheric, Earth and Space Sciences Research Associateships	Jan. 15, 1981
National Research Council	Biological, Medical and Behavioral Sciences Research Associateships	Jan. 15, 1981
National Research Council	Chemical Engineering, Mathematical and Physical Sciences Research Associateships	Jan. 15, 1981
National Science Foundation	Computer Science Research Equipment	Dec. 1, 1980
National Science Foundation	Development and Research in Science Education	Dec. 1, 1980
National Science Foundation	Graduate Fellowships	Nov. 26, 1980
National Science Foundation	Minority Graduate Fellowships	Nov. 26, 1980
Smithsonian Institution	Predocctoral Fellows	Jan. 15, 1981
Smithsonian Institution	Smithsonian Fellows	Jan. 15, 1981
The Tinker Foundation	Postdoctoral Fellowship Program	Jan. 15, 1981

documentation

nd/smc fall 1980 final examination schedule

- I. LAST CLASS DAY -- is Thursday, Dec. 11, 1980. Examinations begin at 8 a.m. Saturday, Dec. 13, 1980 and continue through 9:30 p.m. Thursday, Dec. 18, 1980. (Friday, Dec. 12 is a study day and no examinations may be scheduled.) No morning examinations are to be scheduled on Sunday, Dec. 14.
- II. REGULATIONS FOR FINAL EXAMINATIONS -- Two-hour final examinations must be given on the assigned examination dates and at the assigned times. Changes in the hour, date or place of an examination as assigned by the Office of the Registrar are not permitted. Unless a course is designated as a departmental, the examination in each section of the class must be given at the hour designated. (See V. below.)
- III. JANUARY GRADUATES -- If a graduating student has a "B" average or better in the class, that student may be exempt from the final examination at the discretion of the instructor. Names of eligible graduating students will be provided to the faculty on the Semester Grade Lists.
- IV. DEPARTMENTAL EXAMINATIONS AND FRESHMAN EXAMINATIONS -- All freshman courses are examined at a departmental time increment. The authorized departmental examinations are:

<u>DEPARTMENT & COURSE NUMBER</u>	<u>EXAMINATION TIME</u>	<u>DATE OF EXAMINATION</u>
ACCT 231	7:30 - 9:30 p.m.	Sunday, Dec. 14
ACCT 371	1:45 - 3:45 p.m.	Saturday, Dec. 13
ACCT 380	1:45 - 3:45 p.m.	Sunday, Dec. 14
ACCT 475	1:45 - 3:45 p.m.	Monday, Dec. 15
ACCT 476	1:45 - 3:45 p.m.	Tuesday, Dec. 16
ANTH 109, 110	8:00 - 10:00 a.m.	Saturday, Dec. 13
ARCH 144	10:30 a.m. - 12:30 p.m.	Tuesday, Dec. 16
BIOL 101A, 101B	1:45 - 3:45 p.m.	Monday, Dec. 15
BIOL 103, 201	4:15 - 6:15 p.m.	Sunday, Dec. 14
CHEG 443	7:30 - 9:30 p.m.	Sunday, Dec. 14
CHEM 101, 115	1:45 - 3:45 p.m.	Monday, Dec. 15
CHEM 115L	7:30 - 9:30 p.m.	Monday, Dec. 15
CHEM 223L	7:30 - 9:30 p.m.	Sunday, Dec. 14
EASC 101, 111	1:45 - 3:45 p.m.	Monday, Dec. 15
EASC 141	4:15 - 6:15 p.m.	Sunday, Dec. 14
ECON 115	8:00 - 10:00 a.m.	Saturday, Dec. 13
ECON 123	7:30 - 9:30 p.m.	Saturday, Dec. 13
EE 222, 224	7:30 - 9:30 p.m.	Saturday, Dec. 13
EG 120	4:15 - 6:15 p.m.	Sunday, Dec. 14
EG 226	1:45 - 3:45 p.m.	Monday, Dec. 15
EG 236	7:30 - 9:30 p.m.	Monday, Dec. 15

EG 321	1:45 - 3:45 p.m.	Saturday, Dec. 13
EG 328	1:45 - 3:45 p.m.	Tuesday, Dec. 16
EG 334	1:45 - 3:45 p.m.	Wednesday, Dec. 17
EG 438	8:00 - 10:00 a.m.	Tuesday, Dec. 16
ENGL 109	1:45 - 3:45 p.m.	Tuesday, Dec. 16
ENGL 113	10:30 a.m. - 12:30 p.m.	Tuesday, Dec. 16
FIN 360	1:45 - 3:45 p.m.	Wednesday, Dec. 17
FIN 361	1:45 - 3:45 p.m.	Thursday, Dec. 18
FIN 380	1:45 - 3:45 p.m.	Monday, Dec. 15
FS 180	1:45 - 3:45 p.m.	Tuesday, Dec. 16
GOVT 141	1:45 - 3:45 p.m.	Saturday, Dec. 13
HIST 100 Level	10:30 a.m. - 12:30 p.m.	Saturday, Dec. 13
HUM 185	1:45 - 3:45 p.m.	Tuesday, Dec. 16
MARK 231	7:30 - 9:30 p.m.	Thursday, Dec. 18
MATH 100 Level	1:45 - 3:45 p.m.	Wednesday, Dec. 17
MATH 225	7:30 - 9:30 p.m.	Tuesday, Dec. 16
ME 240	7:30 - 9:30 p.m.	Sunday, Dec. 14
MET 225	1:45 - 3:45 p.m.	Sunday, Dec. 14
MGT 230	7:30 - 9:30 p.m.	Tuesday, Dec. 16
MGT 231	7:30 - 9:30 p.m.	Monday, Dec. 15
MGT 240	7:30 - 9:30 p.m.	Wednesday, Dec. 17
MLFR 203F, 241	1:45 - 3:45 p.m.	Sunday, Dec. 14
MLSP 241	1:45 - 3:45 p.m.	Sunday, Dec. 14
MODL 100 Level	1:45 - 3:45 p.m.	Sunday, Dec. 14
PHIL 101	10:30 a.m. - 12:30 p.m.	Thursday, Dec. 18
PHYS 111	10:30 a.m. - 12:30 p.m.	Monday, Dec. 15
PHYS 127, 141	4:15 - 6:15 p.m.	Sunday, Dec. 14
PHYS 201	4:15 - 6:15 p.m.	Wednesday, Dec. 17
PHYS 210	1:45 - 3:45 p.m.	Tuesday, Dec. 16
PHYS 221, 222	1:45 - 3:45 p.m.	Monday, Dec. 15
PSY 111	8:00 - 10:00 a.m.	Tuesday, Dec. 16
SOC 102, 122	8:00 - 10:00 a.m.	Saturday, Dec. 13
SOC 332	1:45 - 3:45 p.m.	Wednesday, Dec. 17
THEO 100 Level	8:00 - 10:00 a.m.	Thursday, Dec. 18
UNSC 101A, 101B	4:15 - 6:15 p.m.	Monday, Dec. 15

V. NONDEPARTMENTAL CLASS EXAMINATIONS -- Class examinations meet in the same classroom used during the semester at the following time increments. Please note the exact starting time for each examination since these hours differ from the starting hours of the classes. 75- or 90-minute classes are to be examined at the time which corresponds to the starting time of a 50-minute class held at the same hour, i.e., 9TT11 will be examined at the same time as 9TTF, etc.

CLASSES BEGINNING:	WILL BE EXAMINED AT:	CLASSES BEGINNING:	WILL BE EXAMINED AT:
8:00 a.m. MON*	8:00 a.m. SAT DEC. 13	8:00 a.m. TUES**	7:30 p.m. SAT DEC.13(SMC)
9, 9:05, 9:30 a.m. MON	8:00 a.m. MON DEC. 15	9:30 a.m. TUES	10:30 a.m. THU DEC.18
10,10:10,11:00 a.m. MON	8:00 a.m. TUE DEC. 16	10,10:10,11:00 a.m. TUES	10:30 a.m. SAT DEC.13
11:15 a.m. MON	8:00 a.m. THU DEC. 18	11:15 a.m. TUES	10:30 a.m. SAT DEC.13
12:00,12:15 p.m. MON	8:00 a.m. WED DEC. 17		
1:00, 1:15 p.m. MON	4:15 p.m. SAT DEC. 13	1:00, 1:15 p.m. TUES	10:30 a.m. MON DEC.15
2, 2:20, 2:45 p.m. MON	4:15 p.m. SUN DEC. 14	2, 2:20, 2:45 p.m. TUES	10:30 a.m. TUE DEC.16
3:00, 3:25 p.m. MON	4:15 p.m. MON DEC. 15	3:00, 3:25 p.m. TUES	10:30 a.m. WED DEC.17
4, 4:15, 4:30 p.m. MON	4:15 p.m. TUE DEC. 16	4, 4:15, 4:30 p.m. TUES	4:15 p.m. THU DEC.18
5:00, 5:35 p.m. MON	4:15 p.m. WED DEC. 17		

*Monday - Includes classes which meet for the first or only-time each week on either MON or WED or FRI

**Tuesday - Includes classes which meet for the first or only time each week on either TUES or THURS.

nd/smc fall 1980 final examination schedule

	Saturday Dec. 13	Sunday Dec. 14	Monday Dec. 15	Tuesday Dec. 16	Wednesday Dec. 17	Thursday Dec. 18
8:00 a.m. to 10:00 a.m.	8MWF 8MW10 8M 8W 8F ANTH 109,110 SOC 102,122 ECON 115	NO EXAMINATIONS	9MWF 9MW11 9M 9W 9F	10MWF 10MW12 10M 10W 10F EG 438 PSY 111	12MWF 12M 12W 12F	11MWF 11M 11W 11F THEO 100 Level1
10:30 a.m. to 12:30 p.m.	10TT12 10TU 10TH 11TU 11TH HIST 100 Level1		1TT3 1TU 1TH PHYS 111	2TT4 2TU 2TH ARCH 144 ENGL 113	3TU 3TH SMC: BUEC 221	9TT11 9TU 9TH PHIL 101
1:45 p.m. to 3:45 p.m.	GOVT 141 ACCT 371 EG 321 SMC: ENLT 100,101, 103,407 CPSC 107,328		BIOL 101A,101B CHEM 101,115 EASC 101,111 EG 226 ACCT 475 FIN 380 PHYS 221,222 SMC: BIO 103	FS 180 ENGL 109 HUM 185 EG 328 ACCT 476 PHYS 210 SMC: MODL 100 Level1	MATH 100 Level1 SOC 332 EG 334 FIN 360 SMC: MATH 102,104 105,114	FIN 361 SMC: PHIL 100 Level1 BUEC 301
4:15 p.m. to 6:15 p.m.	1MWF 1MW3 1M 1W 1F		3MWF 3M 3W 3F UNSC 101A,101B SMC: BUEC 201(Sec. 62, 63,65) BUEC 303	4MWF 4MW6 4M 4W 4F SMC: BUEC 251	5MWF 5M 5W 5F PHYS 201 SMC: BUEC 312 RLST 205	4TT6 4TU 4TH
7:30 p.m. to 9:30 p.m.	ECON 123 EE 222,224 SMC: CHEM 155 GOVT 152 PHYS 221 8TT		CHEM 115L EG 236 MGT 231 SMC: ENLT 457 SOC 203	MATH 225 MGT 230 SMC: HIST 201(Sec. 63, 64)	MGT 240 SMC: BUEC 231	MARK 231

faculty senate journal

may 12, 1980

At 7:30 p.m. the chairman, Prof. Kenneth E. Goodpaster, called the meeting to order in Room 202 of the Center for Continuing Education and offered the prayer. He requested that all new and returning senators introduce themselves. The journal for April 9, 1980 was approved.

Goodpaster reported that two letters were received from the provost. The first indicated that Assistant Provost Mary Katherine Tillman will chair the committee investigating teacher/course evaluation procedures and that the chairman of the senate's Committee on Student Affairs will serve on the committee. The second letter assured the senate that the issue of annual meetings with untenured faculty members to discuss their progress will be broached with departmental chairmen.

Goodpaster announced that in recent faculty-wide elections, Profs. Nicholas F. Fiore and Thomas R. Swartz had been elected to the Academic and Faculty Affairs Committee of the Board of Trustees, and Angie R. Chamblee and Prof. Gene M. Bernstein to the Campus Life Council.

Goodpaster summarized action taken at the April 30 meeting of the Academic Council. A motion requiring search committee concurrence in the appointment of deans was passed. After a lengthy and candid discussion of the senate's appeal and grievance procedures proposal, the council voted "to decline to accept" the senate's proposal, and to table discussion on this topic until the next council meeting.

Goodpaster reported on the May 1 meeting of the Faculty Affairs Committee of the Board of Trustees. Prof. Rufus W. Rauch presented the various proposals for improving benefits for retired faculty, and Prof. Irwin Press discussed the faculty's fringe benefits and the senate study of TIAA/CREF. Both reports were sympathetically received. Faculty appeal and grievance procedures and trustee perceptions of the Notre Dame faculty were also covered.

Prof. Albert H. LeMay, senate treasurer, indicated that as of April 30, \$1,413 of the senate's \$1,900 budget had been spent, but that this figure did not include CCE rental charges.

Speaking for the Committee on Administration, Prof. Michael J. Francis spoke of committee activity in three areas: departmental tenure requirements and annual progress reports for untenured faculty, the recruitment of women and minority faculty, and faculty involvement in establishing budget priorities for the University. He encouraged next year's committee to continue to address these issues.

Speaking for the Committee on Faculty Affairs, Press described its work on the faculty attitude survey, the appeal procedure proposal, the benefits for retired faculty, and faculty fringe benefits. He stressed the important voice that the senate can have in University affairs, but that meaningful action is only a product of hard work.

Goodpaster reviewed the activities of the Committee on Student Affairs and noted the organization of the University Committee to review the administration, content and use of teacher/course evaluations.

Goodpaster delivered a "state of the senate" address:

My dear colleagues--both those of you returning to the senate for the coming year and those of you who have just joined us. It has not been customary in the past for the chairman of the senate to offer a formal or even semiformal "state of the senate address"--though I am not sure why. It seems to me to be a good idea, especially given the presence of new members at the May meeting and the need to choose new senate leadership at the same time. But whether this pause for reflection catches on as a standard event, I will leave to you.

I sincerely believe that this past year has been a good year for the faculty senate.

After a survey of the members of the senate itself last June, the Executive Committee proceeded to formulate what came to be called the Faculty Attitude Survey. This survey, the first of its kind at Notre Dame as far as I am aware, really provided the agenda for the senate, not only for this year, but for

several years to come. Besides being well-received in terms of total faculty participation (nearly 60 per cent in one mailing), the Faculty Attitude Survey has been appreciated by faculty and administrators alike as a reasonable measure of what Notre Dame Magazine (in a special article on it) called "the mind of the Notre Dame faculty." There can be no doubt that individual questions on the survey were imperfect and that the document might have been improved and might yet be improved upon. But neither can there be any doubt that the issues raised by the survey are substantive--in the areas of university governance, administrative policy, faculty compensation, research, teaching, library needs, retirement and the Catholic character of the University. I believe that the principal motivation underlying the Faculty Attitude Survey will remain constant, and that therefore follow-up efforts in this area are crucial. The principal motivation, of course, was simply that the senate must demonstrate unequivocally and repeatedly its attunement to the views and attitudes of the faculty at large--not relying on the senate's election procedures alone. This is the single strongest source of the senate's credibility in the policy-making dialogues which are carried on in the Academic Council and in other University contexts. I am not suggesting that a survey as elaborate as the one last fall be conducted annually, though I do think that every other year is not too frequent, and that on alternate years some sort of mini-survey might be used to keep lines of communication open.

In any case, the issues which emerged with clear mandates were in fact addressed by the faculty during the year. The standing committees functioned effectively. From Student Affairs, we generated a set of proposals regarding the teacher/course evaluation process and helped to set up a University committee to improve that process. Whoever is elected tonight to the chairmanship of the Student Affairs standing committee will, I hope, participate vigorously next year on this front (as an *ex officio* member of the University committee). From Faculty Affairs, in addition to very useful comparative data on faculty salaries and fringe benefits, we received intelligently worked-out proposals on retirement benefits and on an appeals procedure for faculty denied renewal, promotion or tenure. Both of these proposals are front and center in the attention of the administration and are not likely to go away. I personally believe they will both succeed in the upcoming year. The Administrative Affairs Committee has studied carefully data relating to racial and sex discrimination, has surveyed all departments on performance reviews for junior faculty, has compiled information on leaves of absence by college, and has made proposals tandem with Student Affairs regarding a procedure for evaluating administrators.

Besides all these efforts, the senate has interacted with the Alumni Board constructively, has secured participation in a consulting effort to be undertaken by the administration regarding salaries and fringe benefits, and (one can hope) has created precedent in informal communications with the provost. Finally, the Academic Manual changes regarding search procedures for administrative officers have been improved this year largely due to senate initiative and debate.

All of these things, beyond the more obvious and standard functions of the Faculty Senate--functions like providing a documented forum for discussions with the President, the provost and the director of libraries; providing a locus for faculty-wide participation in university committees; providing faculty representation to new faculty, alumni and trustees--all of these things speak well for the senate this year.

There were of course items of business left undone, though no major issues were completely ignored. We did not, for example, meet as a group with the Budget Priorities Committee or with the Executive Committee of the University. On the whole, though, the committee structure functioned effectively. I might add in this connection that the "interrupted format" tried at several meetings this year seems to have been a good thing--and it takes some of the burden off of standing committee chairmen and members, especially during the first half of the senate year when meeting time is both necessary and scarce.

Let us now look ahead, rather than back. I have already mentioned the desirability of maintaining a regular survey link with the faculty at large, though differentiated in terms of extensiveness. If done in good faith and with sufficient care, this is the surest road to full senate participation in governance at Notre Dame. On other, more specific, fronts--the senate must remain

vigilant with respect to proposals now under advisement by the administration (the proposal on the retired, the library five-year plan, the proposals on appeals procedures and faculty and administrator evaluation). In addition, very controversial questions have surfaced this year regarding the Catholic character of the University and the question of academic freedom as it relates to communications with trustees and advisory councils. Also, compensation remains a serious problem. Salaries are low. Fringe benefits need increase and supplementation. The benefit for faculty children attending colleges or universities other than Notre Dame should be at least doubled. University contributions to TIAA-CREF should also be doubled. Besides raising our position from 17th out of 18 peers on this front, such a policy shift would undoubtedly pay dividends in the long run as an early retirement incentive, something that recent legislation makes imperative. Finally, I believe that the faculty should be making constructive proposals on the medical insurance benefit, both in its own right and with respect to extended coverage of dental costs.

These are just some of the issues which, in addition to those addressed this past year, should occupy the senate in the coming year.

Let me conclude with some reflections on less specific, more "intangible" themes which are no less important. First, I believe that the senate in all of its activities this year has presented a constructive and statesmanlike posture to the various constituencies with which it has dealt. This should be continued. It has not (alas) always been thus. As we saw last fall, the faculty at large clearly wished for a "partnership" style by contrast to belligerence.

Second, the senate must contribute significant insight on the problems --be they perceived or real, if there is a difference--of faculty trust and faculty participation in decision-making. The Faculty Attitude Survey clearly indicates a problem here, and the candid discussion at the last meeting of the Academic Council gave eloquent voice to the concern that because of centralized and secretive procedures, the administration is failing to enhance the kind of trust in its vision that shared information and authority make possible. Belief in the integrity of specific persons is important, but insufficient. Belief in the integrity of the decision-making process itself is also necessary.

Finally, a theme which came up at our last meeting needs to be remembered. As Notre Dame proceeds to mobilize its significant endowment resources into the '80s and '90s, the faculty must have a leadership voice in setting long-term priorities. The senate can and should be the most authentic voice of the faculty on this front. And it must help the University community at large to avoid a certain paradox. In the history of moral philosophy there is a useful analogy to the paradox of which I speak. One commentator expresses it this way: "Non-hedonists often point out that if we consciously take pleasure as our end, we somehow miss it, while if we pursue and attain other things for their own sakes, not calculating the pleasure they will bring, we somehow gain pleasure. This is known as 'the hedonistic paradox'." The point I wish to make is not that Notre Dame has a problem about pleasure or hedonism. The analogy springs from Notre Dame's concern for a different commodity, namely something that often gets called "greatness" or "excellence." It seems to me that there is, like the hedonistic paradox, a "greatness paradox"--and it means, in the terms of the commentator just quoted, that if we too assiduously take 'greatness' as our end, we somehow miss it--while if we pursue and attain other things for their own sakes, not calculating the greatness they will bring, we somehow gain greatness. I would like to think that the senate can contribute not only proposals, information, criticism and advice to the administration (and to the rest of the University community)--but also the kind of vision which guards against losing out to such a paradox. At any rate, I wish you all the best.

The meeting was recessed at 8:20 p.m. and reconvened at 8:25 p.m.

Goodpaster described the procedures for the election of senate officers for 1980-81. He noted that Prof. Paul F. Conway would serve on the Executive Committee as immediate past vice chairman. He presented a slate of candidates nominated by the Executive Committee, and strongly encouraged the nomination of others who had consented to run.

The nominees for chairman were Profs. Robert A. Vacca and Joseph A. Tihen. Both spoke briefly

about their qualifications and philosophies of senate governance. Vacca was elected.

For vice chairman, the nominee was Prof. Michael J. Francis. He was elected by acclamation.

For secretary, the nominee was W. Phillip Helman. He was elected by acclamation.

For treasurer, the nominee was James G. Neal. He was elected by acclamation.

For chairman of the Committee on Administration, the nominees were William M. Burke and Prof. Vaughn McKim. Prof. Kenneth Jameson nominated Tihen. Tihen was elected.

For chairman of the Committee on Faculty Affairs, the nominees were McKim and Prof. Vincent P. DeSantis. McKim was elected.

For chairman of the Committee on Student Affairs, the nominee was Burke. He was elected by acclamation.

Under new business, Vacca moved that the senate vote an expression of thanks to this year's senate officers and to Goodpaster in particular, who had "won the respect of colleagues unsurpassed in recent memory." Rauch seconded, and the motion passed unanimously.

DeSantis moved that the senate go on record deploring the late date the University administration informs the faculty of its decisions on promotion, tenure and salary, and that the senate ask the University administration why it continues to use such a late date to disseminate this information. Prof. William E. Slowey seconded. After a brief discussion, the motion passed unanimously.

The meeting adjourned at 9:05 p.m.

Those absent but not excused: Paul Anderer, modern and classical languages; Mario Borelli, mathematics; Dino S. Cervigni, modern and classical languages; Charles F. Crutchfield, law; Steven W. Hurtt, architecture; John J. Kennedy, marketing; Harry Lafuse, electrical engineering; Rev. James J. McGrath, biology; Charles Parnell, modern and classical languages; James P. Sterba, philosophy.

Respectfully submitted,

James G. Neal
Secretary

(Continued from front cover.)

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notre dame report

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