

'77-'78

notre dame report

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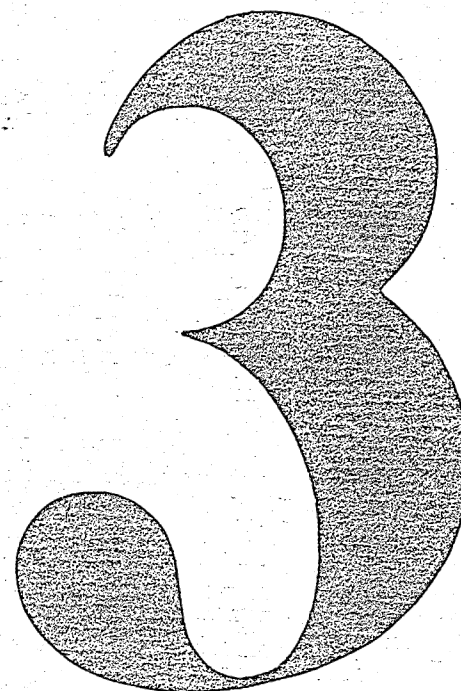
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the university

Midsemester Grade Reporting Fall Semester, 1977

Tuesday, Oct. 18, 1977 is the deadline for instructors to report to the Office of the Registrar midsemester grades for their students. Grades are to be reported for all freshman students on the Freshman Midsemester Grade Lists distributed previously to instructors. The pink copy of the Semester Grade List should be used for reporting all students who are doing "D" or "F" work and who therefore are deficient in the course, with the reason for the deficiency noted.

Danforth Graduate Fellowships

The Danforth Graduate Fellowships give financial support and personal encouragement to selected college seniors and postbaccalaureate persons, committed to careers in college and university teaching, in subject-matter specializations likely to be taught in the undergraduate liberal arts curriculum. The degree sought must be the Ph.D. or other appropriate advanced terminal degree (e.g., M.F.A.). The Fellowship is for one year but it is renewable for up to a total of four years. It provides payment for tuition and fees and a stipend based on individual need. The annual maximum stipend is \$2,500 for single or married Fellows with no children, \$3,500 for Fellows who are married or head of household with one child, and certain other benefits.

The Danforth Graduate Fellowship Program annually offers approximately 100 Fellowships, with 25 per cent of these awards expected to go to Blacks, Mexican-Americans, Native Americans and Puerto Ricans, the remainder of the Fellowships available to persons from any racial or ethnic group.

The University of Notre Dame can nominate four candidates from among current college seniors. The deadline for application is November 1. College seniors interested in this program should contact Prof. Walter Nicgorski, Danforth liaison officer at Notre Dame, as soon as possible (G-49 Memorial Library--Extension 6440). Postbaccalaureate persons may apply directly to the Danforth Foundation. Each postbaccalaureate applicant must secure an endorsement from a faculty member of the graduate department or program where the applicant is currently studying. The endorsement form is included in the application packet and is due back in the foundation office by Dec. 3. The deadline to request postbaccalaureate applications directly from the foundation is Nov. 15.

The Notre Dame Graduate Office may also nominate a promising candidate from among the graduate applicants through the recommendation of departments and programs. Interested graduate students should contact the graduate directors or chairmen of their respective departments or programs as soon as possible. Recommendations from departments and programs should reach the Graduate Office on or before Nov. 1.

Photography Exhibit

Rare photographs of French life and culture at the turn of the century will be exhibited during October in Notre Dame's Art Gallery. The one-man traveling works of Eugene Atget, pioneer cataloguer, are part of the collection of the George Eastman House of Photography.

Also on exhibit are photographs from the west and southwest, Pre-Columbian sculpture and textiles from the permanent collection, Notre Dame art faculty works and Amnesty International Posters.

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Graduate Fellowships for Mexican Americans, Native Americans, Puerto Ricans

Administered by the Educational Testing Service under a grant from the Ford Foundation, the Graduate Fellowships Program will make available a limited number of graduate fellowships for Mexican Americans, Native Americans (Aleuts, Eskimos, Indians, Native Hawaiians), and Puerto Ricans who are already pursuing graduate study leading to the doctoral degrees. Awards will be for one year only, but will be renewable upon re-application.

To qualify for an award in the 1978-1979 competition:

- a. Applicants in the arts and sciences must have completed the equivalent of at least two years of full-time graduate study and been accepted into a doctoral program by June 30, 1978.
- b. Applicants in the professional fields (including law and medicine) must have completed at least one year of full-time graduate study beyond the first post-baccalaureate degree and been accepted into a doctoral program by June 30, 1978.

To be considered for an award, applicants must meet all the following basic requirements:

1. U.S. citizenship
2. re-admission into an accredited U.S. graduate school offering the doctorate in the applicant's chosen field
3. pursuing or planning to pursue full-time study toward the doctoral degree
4. planning to pursue a career in higher education

Fellowship awards include:

1. tuition and fees
2. books and supplies allowance or dissertation allowance
3. \$350 monthly living allowance plus \$50 per dependent

Twelve-month awards are available for applicants planning to study full time during the 1978 summer session and 1978-79 academic year. Ten-month awards are available for full time study during the 1978-79 academic year only.

Applications must be requested by individual applicants on or before Dec. 23, 1977. All applications must be received no later than Jan. 5, 1978. For applications and additional information write to:

Graduate Fellowships for Mexican Americans,
Native Americans and Puerto Ricans
Educational Testing Service
Box 200
Berkeley, Calif. 94704

Computer Courses

Six specialized non-credited and tuition-free courses in computer language will be offered this fall by the Notre Dame Computing Center in Room 115. Classes which extend for more than one day require attendance at each session for meaningful learning, and some classes have pre-requisites which should be satisfied.

The courses are: Elementary Job Control Language (JCL), Oct. 4, 6 and 10, 3:30 p.m.--The SPSS Conversational Statistical System (SCSS), Oct. 11, 13, 18 and 20, 3:30 p.m.--Introduction to Time Sharing, Oct. 11, 13 and 17, 7 p.m.--Using the H-Extended Fortran Compiler, Nov. 1 and 3, 3:30 p.m.--Command Procedure (CLIST) Programming, Nov. 14, 16, 18 and 21, 3:30 p.m. Speakezy--An Easy-To-Learn Computer Language, Nov. 15, 17 and 21, 7 p.m. It would be helpful to register with the secretary in Room 109 of the Computing Center or by calling 283-2811. Groups must pre-register.

faculty notes

Appointments

These appointments were announced by the Provost's Office and are effective for the 1977-78 academic year.

Peri E. Arnold, associate professor of government and international studies, was named Chairman, Department of Government and International Studies; Fernand N. Dutille, professor of law, was named Assistant Dean, Law School; Yusaku Furuhashi, professor of marketing, was named Associate Dean, College of Business Administration; Edward M. Gaffney, Jr. was named Associate Director, Center for Constitutional Studies.

Other appointments include: Sheridan P. McCabe, director of the Counseling Center, was named Director, Psychological Services Center; Philip R. Moos was named Director, Center for Constitutional Studies; Stephen B. Spiro, adjunct instructor of art, was named Curator of Collections, Art Gallery; and Thomas J. Stritch, professor of American Studies, was named Director, American Studies Program (spring semester).

The Center for the Study of Man in Contemporary Society at the University of Notre Dame is announcing several key staff changes commencing with the 1977-78 academic year. Paul M. Mellema, assistant professor of philosophy, will replace Edward Manier, associate professor of philosophy, as Coordinator for Faculty Research and Sponsored Programs. Rev. C. Lincoln Johnson, assistant professor of sociology and anthropology, will succeed Bobby J. Farrow, associate professor of psychology, as Director of the Social Science Training and Research Laboratory (SSTRL). Directing the newly established Social Science Data Archive within SSTRL is R. Robert Huckfeldt, assistant faculty fellow of sociology and anthropology, and Kook-Ching Huber has resigned as assistant professional specialist. Michael G. Lilienthal will assume her responsibilities.

Margaret Boggs and Marie Gerencher have been appointed to professional positions as Assistants to the Executive Director of the Notre Dame Alumni Association it was announced by James W. Frick, vice president for public relations and development.

Chau T.M. Le, assistant to the vice president for advanced studies, has been named assistant vice president for advanced studies and instruction by the University's president, Rev. Theodore M. Hesburgh, C.S.C. The appointment is effective immediately.

Rev. Marvin O'Connell, chairman and professor of history, has been appointed Chairman of the Search Committee for the Director of the Medieval Institute by Dean Isabel Charles, College of Arts and Letters. Professor O'Connell will be assisted by Michael Loux, associate professor of philosophy, and Thomas Werge, associate professor of English.

Thomas J. Suddes, coordinator of development, has been appointed director of development and Thomas R. Pilot, Jr. has been appointed assistant director of development, it was announced by James W. Frick, vice president for public relations and development. Suddes will direct the Campaign for Notre Dame, the University's \$130 million fund-raising drive, and he will be responsible for the University's other development programs including the Annual Fund, and will supervise the activities of the regional development offices in New York City, Los Angeles and Chicago.

Honors

Thomas P. Bergin, dean of the Center for Continuing Education, has agreed to serve on a special assignment of the Awards and Honors Committee of the National University Extension Association. This committee is charged with the responsibility to completely review all the awards in an effort to define their objectives.

William Eagan, associate professor of management, was elected Secretary of the Overall Economic Development Policy Committee of St. Joseph County at a meeting held in the Center for Continuing Education, Sept. 8.

Robert E. Gordon, vice president for advanced studies, has been chosen as the Outstanding Alumnus of the Graduate School for 1977 by the Tulane University Alumni Association.

John R. Malone, professor of marketing, has been appointed to the Joint Select Study Committee on Utility Regulation of the Indiana Legislative Council.

Kenneth R. Ripple, associate professor of law, is currently serving as consultant to the Anglo-American Judicial Exchange in Washington, D.C.

Robert W. Williamson, chairman and associate professor of accountancy, has been appointed Chairman of the American Accounting Association's Committee on Cost Accounting Standards for the 1977-78 academic year.

Activities

A symposium on "Social Studies of Science" sponsored by Notre Dame's Center for the Study of Man in Contemporary Society was held Sept. 16 in the Memorial Library Lounge. Representing Notre Dame were David LeNoir, assistant professor of the general program of liberal studies, who discussed "Social Organization and Cognitive Norms in Science"; Edward Manier, associate professor of philosophy, who talked on "The History, Sociology and Philosophy of Science: A Family Romance"; and discussion chairmen were Phillip Sloan, assistant professor of the general program of liberal studies, and David Lewis, assistant professor of sociology and anthropology. In addition, LeNoir and Manier were co-chairmen of two sessions.

Ronald Beaulieu, assistant professor of management, presented the keynote address "Communications" to the fall conference of the Construction Specifications Institute on Sept. 9, at the Center for Continuing Education at Notre Dame.

Salvatore J. Bella, Jones professor of management, served as Dean of the Institute of Management sponsored by the National Association of Retail Dealers of America at the Center for Continuing Education, at Notre Dame, Aug. 14-18, and made the following presentations: "Problem-Solving: A Manager's First Responsibility" and "Human

Relations in Business," Aug. 15; "Motivating Employees" and "Managing Your Time-Doing More in Less Time," Aug. 16; "Communicating Effectively" and "What To Do When The Union Calls," Aug. 17.

John G. Borkowski, chairman and professor of psychology, participated in a workshop on Research Priorities in Aging at the University of Chicago from June 20-24. He presented a paper on "Changing Children's Metamemories" as part of a symposium on "Teaching Children How to Think" at the meetings of the American Psychological Association at San Francisco, Aug. 26-30.

Adrian Bryttan, assistant professor of music, performed a recital of 20th century Ukrainian violin music Sept. 28 in the Memorial Library.

Rev. James T. Burtchael, C.S.C., professor of theology, appeared on the WGN-TV "Donahue Show," Sept. 27, in a discussion of the recent controversial book on Catholic sexual ethics, "Human Sexuality: New Directions in American Catholic Thought."

John Cacioppo, assistant professor of psychology, attended the Midwestern Psychological Association conference in Chicago on May 6 and presented the following papers: "Cognitive and Physiological Responses Following Forewarning of Persuasion" and "Message Repetition, Cognitive Responding, and Agreement" co-authored by R.E. Petty. He co-authored a paper presented by Petty entitled "Forewarnings Elicit Anticipatory Counterarguments and Produce Resistance to Persuasion," and on May 7 he presented the paper co-authored by L.A. Becker "The Learning Performance of Meditators and Non-meditators: The Effects of a Noise Stressor." Professor Cacioppo also acted as coorganizer and participant in a symposium presented at the American Psychological Association, San Francisco, Aug. 26, entitled "Cognitive Response Processes in Persuasion." The presentation was entitled "Heart Rate, Hot Cognition, and Persuasion."

Y.C. Chang, associate professor of management, presented two papers with Lawrence Marsh, assistant professor of economics, entitled "An Interpretation of Bayesian Inference With Application to Econometrics" and "Simultaneously Testing Multiple Inequality Restrictions on Production Function Parameters" at the 137th Annual Meeting of the American Statistical Association in Chicago, Aug. 15-18.

William Eagan, associate professor of management, presented a paper entitled "The Enforcement of Anti-Pollution Regulations with Special Consideration of the Reserve Mining Case" at the convention of the American Business Law Association held in Miami Beach, Fla., Aug. 24.

Msr. John J. Egan, special assistant to the President, was a participant at the Community Organizers' Conference in Denver, Colo., Sept. 21-22, and on Oct. 2 was guest homilist at St. Catherine of Siena Church, Riverside, Conn.

John Houck, professor of management, delivered a paper entitled "The Challenge of Values in Business" at the Ninth Management Institute of the Life Insurance Marketing and Research Association, held at the Center for Continuing Education, Notre Dame, Aug. 21-25.

David Clark Isele, assistant professor of music and director of the Notre Dame Glee Club, served as guest composer for the 1977 Contemporary Organ Music Festival held at Hartt College of Music, West Hartford, Conn., in June. Besides composing a new piece for the event, Isele also lectured on "Comprehension and Conceptualization/Musical Analysis." The Notre Dame Glee Club, under the direction of Isele, sang a concert, a mass and four other engagements during a weekend tour to Greenville, S.C., Sept. 23-25.

Mitchell Jolles, assistant professor of aerospace and mechanical engineering, presented a paper entitled "Stress Intensity Factors for Reactor Vessel Nozzle Cracks," at the American Society of Mechanical Engineering Energy Technology Conference, Houston, Tex., Sept. 19-21.

John J. Kennedy, professor of marketing, presented a paper entitled "A Transactional Analysis Model for Understanding Travel Decisions" at the 8th Annual Conference of the Travel Research Association in Scottsdale, Ariz., June 14.

Rev. Patrick Maloney, C.S.C., associate professor of music, was the featured tenor soloist at the ninth annual Chicago Symphony String Quartet concert Sept. 26 at the Memorial Library.

Edward Mayo, associate professor of marketing and acting director of the Hayes-Healy Travel Management Program, served as chairman of a session entitled "Transactional Analysis and Travel Behavior" at the 8th Annual Conference of the Travel Research Association in Scottsdale, Ariz., June 14.

Daniel J. Pasto, professor of chemistry, presented a lecture entitled "Cycloadditions and Thermal Rearrangements of Allenes. Reactions Involving Interactions of Originally Orthogonally Related Orbitals," before the Second International Symposium on Acetylenes, Allenes and Cumulenes, Sept. 7 at the University of Nottingham, Nottingham, England.

Thomas J. Schlereth, associate professor of American studies, delivered a paper, "Material Culture Study in America, 1876-1977," at the 1977 Summer Institute of the Henry Francis DuPont Winterthur Library and Museum, Winterthur, Del., Aug. 9.

William P. Sexton, associate professor of management, conducted a seminar for the corporate officers of Mercy Hospitals in Scranton, Pa., on "Planning and Environmental Analysis in Health Care Institutions" on Sept. 3. He also presented a paper entitled "Essentials For Personal Growth" on Sept. 28 to the Society of Technical Communication in St. Joseph, Mich.

James R. Stock, assistant professor of marketing, co-presented a paper entitled "Transportation Mode Choice From an Industrial Buyer Behavior Perspective" at the 1977 American Marketing Association Educator Conference in Hartford, Conn., Aug. 7-10.

Albin A. Szewczyk, professor of aerospace and mechanical engineering, presented a paper entitled "The Effect of Sound on Shear Flow Past Bluff Bodies," and chaired a session at the 13th Biennial Fluid Dynamics Symposium held in Warsaw, Poland, Sept. 4-12.

Robert Vecchio, assistant professor of management, presented a paper entitled "Predicting Teacher Effectiveness" at the 85th annual meeting of the American Psychological Association in San Francisco, Aug. 26-29.

Deaths

James F. Connaughton, 62, a member of the Arts and Letters Advisory Council, died Aug. 8.

Harry C. Hagerty, 85, trustee emeritus, died Sept. 25 in New York.

office of advanced studies

Notes for Principal Investigators

University Committee on the Protection of Human Subjects Scheduled Meetings

For academic year 1977-78, the University Committee on the Protection of Human Subjects will meet on the first Friday of each month at 11:00 AM. Principal investigators are reminded that the Committee needs ten copies of the project description and related materials for its distribution. Project descriptions should be submitted to the Committee at least ten working days prior to a Committee meeting to allow for the review that each project deserves.

National Science Foundation (NSF) Proposal and Award Budget Format

Commencing October 1, 1977, most National Science Foundation grant letters will not include a separate award budget form. If the Foundation agrees to support a project without a change in the budget as proposed by the institution, the Foundation will incorporate that budget by reference rather than by attaching a separate award budget form prepared by NSF. If discussions between the staffs of the Foundation and of the University result in changes in the proposed project, the NSF representative will normally request the submission of a revised budget, endorsed both by the prospective principal investigator and the authorized institutional representative. In such cases, the grant letter will cite the budget as revised on the date of the institutional endorsement. In those few cases where changes occur but circumstances do not warrant obtaining a revised budget, the Foundation's grant instrument will include a copy of the proposal budget form indicating the changes made by NSF.

In order to implement this procedure, a new Proposal Budget format has been developed. Each proposal submitted to NSF on or after October 1, 1977 should contain a proposed budget in this format unless the pertinent program brochure specifically provides otherwise.

A supply of the new Proposal Budget format is available in the Office of Advanced Studies, Division of Research and Sponsored Programs.

Information Circulars

National Humanities Center Fellowships in the Humanities

No. FY78-42

Humanities Center

The National Humanities Center has been created to encourage advanced studies in the humanities, to bring humanistic scholars together with scholars in other disciplines and with men of learning in various fields of professional activity, and to enhance the usefulness and influence of the humanities in the American civic process. It is a response to the widely felt need within the academic world to give the humanities renewed emphasis and visibility, and to the growing recognition within the country at large that the humanities offer resources not yet fully tapped for public enlightenment and the imaginative understanding of public issues.

In establishing an institute for advanced study, the Center's founders seek the advancement of humanistic knowledge for its own intrinsic values, recognizing that the humanities make their distinctive contribution to the understanding of practical problems by offering a perspective that moves beyond the immediacies.

The Center's fellowships will be open to humanistically inclined scholars in the natural and social sciences and the professions as well as to scholars in the fields conventionally identified with "the humanities."

The Center will open in September, 1978, in a new building specially designed for its use in the Research Triangle Park, in the Raleigh, Durham, Chapel Hill area of North Carolina. The facilities of the libraries at Duke University, the University of North Carolina at Chapel Hill, and North Carolina State University will be available to its Fellows.

The Center will accept approximately twenty-five Fellows in 1978. It expects to reach its full complement of approximately fifty Fellows in 1980. In general, the Center will provide stipends to Fellows that will match their normal academic income plus the expenses incident to moving to the Center. In some cases, funds for research assistance may be available. Recipients of fellowships or other forms of financial support from sources other than the Center are eligi-

ble to apply. The Center will assist Fellows and their families in finding suitable housing in the neighboring university communities. The normal term of a Fellowship will be nine months, from September through May, but a few short-term Fellowships will also be available.

Fellowships for the period 1978-80 will be available in the following categories:

- (1) Fellowships for senior scholars pursuing individual research;
- (2) Fellowships for scholars who have held their Ph.D's for not less than six years nor more than nine, and who are embarking on their first large-scale projects;
- (3) Fellowships for Scholars whose work falls in one of the following general areas: Man and Nature; History and the History of Ideas; The Theory of Interpretation; Ideals of Education; Human Rights; Liberty and Equality, Moral Theory and Democracy.

The President of the Center is Charles Frankel; William J. Bennett is the Executive Officer. For more information, write to National Humanities Center, P.O. Box 12256, Research Triangle Park, North Carolina 27709.

National Science Foundation Alan T. Waterman Award

No. FY78-43

PURPOSE

This Award was established by the Congress in August 1975 to mark the 25th Anniversary of the National Science Foundation and to honor the first Director of the Foundation, Dr. Alan T. Waterman.

This annual Award will give recognition to an outstanding young U.S. scientist in the forefront of his or her field of science. In addition to a medal and other recognition, each recipient will receive a grant of up to \$50,000 per year for a period of up to 3 years for scientific research or advanced study in the mathematical, physical, medical, biological, engineering, social or other sciences at the institution of his or her choice.

ELIGIBILITY REQUIREMENTS

Candidates must be U.S. citizens and must be 35 years of age or younger by December 31, 1977. Candidates should have completed sufficient scientific or engineering research to have demonstrated, through personal accomplishments, outstanding capability and exceptional promise for significant future achievement. In addition, candidates should exhibit quality, innovation and potential for discovery in their research.

APPLICATION PROCEDURES

Nominations for this Award are considered from the scientific community, individuals, professional and other appropriate organizations.

Six copies of the supporting documents (letter-size and unbound), including the following, are required:

A complete biography, including date of birth, detailing the nominee's academic work as well as his or her career since obtaining the last degree. Particular attention should be given to documenting the significance and originality of the nominee's contribution to the advancement of science.

A one- or two-sentence citation that summarizes the nominee's career and potential for accomplishment.

The names, complete addresses and telephone numbers (if available) of at least three references who can attest to the nominee's work and career to date.

Other material that might be helpful to the selection committee.

SUBMISSION PROCEDURE

Six copies of each nomination plus all supporting documentation should be submitted to the Alan T. Waterman Award Committee, National Science Foundation, Washington, D.C. 20550. No special forms are required. Announcement of this Award will take place in May of each calendar year. For candidates to be considered, nominations for the 1978 Award must be received by the Foundation no later than December 31, 1977.

U.S. Office of Education Metric Education Program

No. FY78-44

Applications are now being accepted for the Metric Education Program under the U.S. Office of Education. This program is authorized to make grants and contracts to state educational agencies, local educational agencies, institutions of higher education, and nonprofit public and private groups, institutions, and organizations to encourage educational agencies and institutions to prepare students to use the revised metric system of measurement with ease and facility as a part of the irregular educational program.

Applications must be received by the U.S. Office of Education's Application Control Center on or before December 12, 1977.

Additional information is available in the Office of Advanced Studies, Division of Research and Sponsored Programs.

Research Triangle Institute Visiting Women Scientists Program

No. FY78-45

The Visiting Women Scientists Program has been designed by the Research Triangle Institute in North Carolina to encourage high school girls to consider careers in science and technology. Interested women scientists are being sought to participate. Program involves women scientists, mathematicians and engineers who visit high schools to talk about career opportunities for women. Expenses and an honorarium are provided, with participants spending three to five days visiting several schools in a given geographical area.

For further information contact the following:

Dr. Iris R. Weiss
Visiting Women Scientists Program
Research Triangle Institute
Box 12194
Research Triangle Park, North Carolina 27709

The Harry S. Truman Scholarship Foundation Harry S. Truman Scholarship Program

No. FY78-46

Nominations of students for Harry S. Truman Scholarships in 1978 must be submitted to the Scholarship Review Committee by December 8, 1977. Scholarships of up to \$5,000 in support of tuition, books, and room and board are awarded to students who will be college juniors next year and who have outstanding potential for leadership in government. Tenure usually is for four years, the last two years of undergraduate education and the first two years of graduate study.

For further information see Notre Dame Report No. 20, '76-'77, No. FY78-3, page 487.

The National Fellowships Fund Graduate Fellowships for Black Americans 1978-79

No. FY78-47

The National Fellowships Fund, acting for the Council of Southern Universities, Inc., and with funds granted to the Council in 1972 by The Ford Foundation, is making available a limited number of graduate fellowships to Black Americans who intend to pursue careers in higher education. College seniors are not eligible.

These fellowships are offered as part of a broader Ford Foundation program of assistance to historically disadvantaged minorities (such as Black Americans) whose opportunities for participation in higher education have been limited as the result of racial discrimination or other factors.

The basic purpose of the program is to provide qualified black personnel for careers in higher education in the United States through the stimulation of doctoral study in the basic biological and physical sciences, the humanities, and the basic social sciences.

Black faculty members, graduate students and other Black Americans who have completed at least the equivalent of two academic years of full-time graduate study in their chosen field of study are eligible to apply. Candidates must give evidence of intent to enter into a career in higher education in the United States. The fellowships are limited to those who wish to study full time for the doctoral degree without interruption.

Stipends:

The basic stipend for each fellowship is \$350 per month for either ten or twelve months, depending upon the period of full-time enrollment. Monthly payments will be sent directly to the student by the Fund.

Supplements:

The stipend for each fellowship will be supplemented by:

- an allowance to cover books and supplies up to a total of \$300.00. This will be paid directly to the student in 10 or 12 equal installments and will be added to the monthly stipend payment.
- an amount to cover full tuition and fees required by the graduate school which will be paid directly to the institution upon receipt of its bill.
- an allowance of \$50.00 per month for a dependent spouse and \$50.00 per month for each dependent child. A claim for this supplement must be substantiated.

Dissertation-year Fellows may apply for a research allowance in lieu of the book allowance. A detailed budget, which has the approval and signature of the faculty advisor, must be submitted to the Executive Director.

No supplement will be provided for transportation.

Application Forms and Calendar:

Application should be made by the individual directly to the Fund. Application and reference forms may be obtained from the Executive Director, upon written request by the prospective applicant. Such forms will not be provided in bulk for distribution by an intermediary.

The calendar for 1978-79 fellowships is:

Applications to be requested before December 23, 1977.

Applications to be filed before January 5, 1978.
Selections to be announced about March 25, 1978.
Acceptance to be filed before April 25, 1978.

For further information, contact the following:

Mr. Samuel M. Nabrit
Executive Director
The National Fellowships Fund
795 Peachtree Street, N.E., Suite 484
Atlanta, Georgia 30308

Council for International Exchange of Scholars The Indo-American Fellowship Program The Indo-U.S. Subcommittee on Education and Culture Advanced Research/ Professional Development in India 1978-79

No. FY78-48

The Indo-U.S. Subcommittee on Education and Culture announces the third annual competition for advanced research and professional development awards in India. Grantees must be U.S. citizens. Awards will be at the postdoctoral or equivalent professional (e.g., law, medicine, architecture, social work, the creative arts) level.

While awards are offered without restriction as to field, the Subcommittee especially welcomes

- * applications from both scholars and non-academic professionals who have not specialized in the area and who have limited or no prior experience in India
- * applications in the sciences
- * applications envisaging collaboration with Indian colleagues, although a prior collaborative arrangement is not required

FELLOWSHIP TERMS

Duration:

Six to ten months, to begin in the academic year 1978-79.

Basic grant:

\$12,000 to \$15,000 (prorated for periods less than ten months), depending on academic/professional achievement and seniority, \$3,500 payable in dollars, the balance in rupees.

Dependent allowance:

\$1,000 in rupees per dependent up to a maximum of \$2,500 (prorated for periods less than ten months).

International travel for the grantee and, in most cases, for dependents, and an excess baggage allowance for the grantee of \$400.

Basic research/book allowance in rupees equivalent to \$500.

An allowance for study-travel within India--2,000 rupees.

Supplementary research expense allowance of up to 34,000 rupees (available to most fellows).

VISITORSHIP TERMS

Duration:

One to three months to begin in the academic year 1978-79.

Stipend:

\$1,000 per month in rupees (prorated for less than a month).

International travel for the grantee only.

Research/book allowance in rupees equivalent to \$500.

An allowance for study-travel in India--2,000 rupees.

Deadline:

Applications due November 15, 1977.

Application Procedure:

Application forms should be requested from the Council for International Exchange of Scholars at:

Council for International Exchange of Scholars
Eleven Dupont Circle
Washington, D.C. 20036
(202)833-4980

The Southern Fellowships Fund Council of Southern Universities, Inc.

No. FY78-49

The Southern Fellowships Fund, acting for the Council of Southern Universities, Inc., and with funds granted to the Council by Danforth Foundation is making available a series of awards to promote the development of faculty and administrative staffs for colleges and universities located in the United States.

The awards for 1978-79 will be: (a) for pre-doctoral fellowships for several kinds; (b) for postdoctoral study and research.

The basic purpose of the program is to provide a cadre of qualified persons for the faculty and staff of colleges in the United States. Primary emphasis is being placed on providing black talent.

Pre-doctoral Fellowships:

Awards for four types of pre-doctoral fellowships will be made: First year, second year, third year and dissertation year.

Awards for the first, second, or third year of graduate study will be made to students who have achieved full graduate status, established by the applicant (measured by admission to graduate school and satisfactory progress thereafter), and who have commitments to follow careers in higher education.

Stipends:

Fellowships for the first year of graduate study will carry a stipend of \$2800 on a 12-month basis, with supplements; fellowships for the second year, \$3100 on a 12-month basis, with supplements.

Fellowships for the third year of graduate study and research, and for the dissertation year will carry stipends ranging from \$3500 to \$5100 on a 12-month basis, with supplements.

Previous holders of pre-doctoral fellowships from the Fund, and other persons with similar qualifications and objectives in higher education, may apply for third year and dissertation year fellowships.

In determining the exact amount of stipends for first, second, third and dissertation year fellowships, the Fund will give consideration to the number of years of college teaching experience of the applicant.

Application Forms and Calendar:

Application should be made by the individual directly to the Fund. Application and reference forms may be obtained from the Executive Director, upon written request by the prospective applicant. Such forms will not be provided in bulk for distribution by an intermediary.

The calendar for 1978-79 fellowship is:

Applications to be filed before December 15, 1977.
Selections to be announced about March 15, 1978.
Acceptance to be filed before April 15, 1978.

For further information, contact the following:

Mr. Samuel M. Nabrit
Executive Director
The Southern Fellowships Fund
795 Peachtree Street, N.E., Suite 484
Atlanta, Georgia 30308

AGC Education and Research Foundation Financial Aid for Construction and Civil Engineering Students

No. FY78-50

Undergraduate:

Available to high school seniors, college freshmen, sophomores and juniors enrolled, or planning to enroll, in a four-year degree program in construction and/or civil engineering. The renewable award is in the amount of \$1,000 per year for each year of undergraduate education; up to a maximum of \$4,000. One applicant is selected as the Robert B. McEachern/General Construction Company Award winner. Approximately 15-20 scholarships are awarded each year.

Master's. Saul Horowitz, Jr., Memorial Award

Available to a college senior enrolled in an undergraduate construction or civil engineering degree program; or a person possessing an undergraduate degree in construction or civil engineering. The applicant must be enrolled, or planning to enroll, in a Master's level construction degree program as a full-time stu-

dent. The award is in the amount of \$4,000 for the duration of the student's Master's program. Only one award will be given each year.

Application and Selection Criteria:

Applications for both competitions are available on September 1 of each year and the deadline for receipt of applications and attachments is December 1. Recipients are selected on the basis of academic performance, extracurricular activities, financial need and a demonstrated interest in a construction industry career. Finalists are subject to an interview by a representative of the Foundation.

Applications for both programs are available from the Office of Advanced Studies, Division of Research and Sponsored Programs.

Research Corporation Cottrell Research Grants

No. FY78-51

Cottrell Research Grants are given to help academic scientists at degree-granting institutions conduct basic research of originality and importance in the physical sciences and engineering.

The emphasis of this program is support of fundamental investigations performed by young faculty members in the early years of their professional careers. More speculative research of established investigators also is eligible for consideration.

Support may be provided for projects under the direction of a single investigator, or for joint projects involving two or more investigators from the same or different academic departments.

Research Corporation seeks to place Cottrell Research Grants in situations of genuine opportunity where relatively modest but well-timed support can lead to significant contributions to scientific knowledge and to the development of the investigator, his students and his institution.

Scientific significance is a prime criterion in the evaluation of research proposed. Competition for these grants demands that the work proposed be sufficiently challenging to require the investigator's best efforts and that it contribute toward the solution of an important unsolved problem.

OTHER FOUNDATION PROGRAMS

Cottrell College Science Grants for academic research programs in the natural sciences, mathematics and engineering at private undergraduate institutions.

Brown-Hazen Grants for research in the biological-medical sciences, particularly biochemistry, immunology and microbiology, with emphasis on medical mycology.

Williams-Waterman Grants for practical programs to combat malnutrition, especially in the developing nations of the Western Hemisphere.

For further information, contact the following:

Jack W. Powers
Regional Director of Grants
Research Corporation
6075 Roswell Road, N.E.
Atlanta, Georgia 30328

Henry Luce Foundation The Luce Scholars Program

No. FY78-52

Background:

The Luce Scholars Program - the Henry Luce Foundation's major effort to develop a new level of understanding of Asia among future leaders of American society - is aimed at a very select group of young Americans from a wide range of professional backgrounds. It is unique among Asian-American exchange programs in placing emphasis on leaders who have had no prior experience in Asian affairs and who might not otherwise have an opportunity during the course of their careers to come to know Asia or their Asian colleagues and contemporaries.

At the heart of the enterprise are internships and job placements that are arranged for each participating Scholar on the basis of his or her professional interests and background. The kinds of placements are almost without limit. A young biologist might be assigned to an institute for research in tropical medicine in Indonesia. An artist might work in the studio of a noted Japanese painter. An economist could be placed with the Asian Development Bank in the Philippines.

Stipend:

The basic stipend for each Luce Scholar has been established at \$9,000, payable in twelve monthly installments. Although Luce Scholars may occupy professional positions in Asian institutions or agencies as a part of their assignment, they receive no additional compensation for those activities. Stipends are augmented by \$2,000 when the Scholar is accompanied by a husband or wife. Moreover, in instances where the location or nature of an internship entails a cost of living substantially higher than that found in the United States, a differential payment may also be provided according to a formula that will assure, to the extent possible, parity among the Scholars. Economy class air transportation is provided for all travel required by the program.

Eligibility:

American citizens no more than 29 years of age on September 1, 1978, chosen from among Notre Dame's

- * Junior faculty
- * Recent graduates
- * Graduate students
- * Law students
- * Very exceptional seniors

Qualifications:

- * High academic achievement.
- * Strong and clearly defined career interest in a specific field, but not Asian affairs or international relations.
- * Outstanding capacity for leadership.
- * No Asian language ability expected; not qualified if have had previous extensive Asian experience.

For additional information and application materials, contact Dr. Donald P. Costello, Chairman, Notre Dame's Luce Scholars Selection Committee, c/o Department of English, University of Notre Dame, Notre Dame, Indiana 46556. Or interested candidates can pick up the materials in Room 356, O'Shaughnessy.

Completed applications must reach Dr. Costello by noon on Monday, November 28, 1977.

The Mary Isabel Sibley Fellowship Committee for the Study of French Language or Literature Phi Beta Kappa

No. FY78-53

Requirements:

Candidates must be unmarried women between 25 and 35 years of age who have demonstrated their ability to carry on original research. They must hold the doctorate or have fulfilled all the requirements for the doctorate except the dissertation, and they must be planning to devote full-time work to research during the Fellowship year which begins September 1, 1978. Eligibility is not restricted to members of Phi Beta Kappa.

Stipend:

\$6,000

Applications:

Applications for the 1978 award must be filed before February 1, 1978. The recipient of the 1978 Award will be notified not later than April 1, 1978. Application forms and further information may be obtained from:

The Mary Isabel Sibley Fellowship Committee
The United Chapters of Phi Beta Kappa
1811 Q Street, N.W., Washington, D.C. 20009

National Academy of Sciences Commission on International Relations Study and Research in the USSR and Eastern Europe, 1978-79

No. FY78-54

The National Academy of Sciences invites applications from scientists who wish to visit the USSR and Eastern Europe for up to twelve months during academic year 1978-79 for research under the provisions of scientific exchange agreements between the National Academy of Sciences and the academies of sciences of the USSR, Bulgaria, Czechoslovakia, Hungary, Poland, Romania and Yugoslavia.

Who May Apply:

Any American scientist who possesses a doctoral degree (or its equivalent) in the natural, mathematical, fundamental medical (non-patient oriented), engineering, or precise behavioral sciences, or who is now a candidate for the doctorate and expects to receive it prior to the time of the exchange visit, is eligible for consideration in the interacademy exchange programs.

Stipends:

Participants are compensated for loss of base salary up to \$1300 a month in the Soviet program or \$1450 for the East European programs, taking into consideration simultaneous grants from other sources during the term of the research visit. Minimum-cost, round-trip air transportation between the participant's US residence and the host academy is also provided by the NAS. The host academies provide housing, domestic transportation connected with the scientist's research program, medical services, and a living allowance (provisions vary according to country). Researchers spending longer than five months receive international transportation for members of their immediate family who may accompany them. Predeparture language study for long-term researchers is also supported by the NAS.

Where and When to Apply:

The deadline for receiving completed applications is November 18, 1977. Preliminary inquiries by mail or telephone should reach the NAS Commission on International Relations no later than November 4, 1977. Applications will be reviewed in December 1977 by the NAS Advisory Committee on USSR and Eastern Europe. Candidates will be notified of final selections in late February or March 1978.

For further information and application forms, write:

Section on USSR and Eastern Europe
Commission on International Relations
National Academy of Sciences
2101 Constitution Avenue, N.W.
Washington, D.C. 20418
Telephone: 202/389-6616 or 389-6228

Educational Testing Service Mexican Americans, Native Americans, and Puerto Ricans Graduate Fellowships Program—1978-79

NO. FY78-55

Eligibility:

With the support of the Ford Foundation, Educational Testing Service is awarding a limited number of graduate fellowships to Mexican Americans, Native Americans (Aleuts, Eskimos, Indians and Native Hawaiians) and Puerto Ricans who intend to pursue a career in higher education.

Eligibility for these awards will be limited to students who are already pursuing graduate study leading to the doctoral degrees. Awards will be for one year only, but will be renewable upon reapplication.

To qualify for an award in the 1978-1979 competition:

- Applicants in the arts and sciences must have completed the equivalent of at least two years of full-time graduate study and been accepted into a doctoral program by June 30, 1978.
- Applicants in the professional fields (education, law, medicine, public administration, public health, social welfare/work, etc.) must have completed at least one year of full-time graduate study beyond the first postbaccalaureate degree and been accepted into a doctoral program by June 30, 1978.

Fellowship Awards Include:

- tuition and fees
- books and supplies allowance or dissertation allowance
- \$350 monthly living allowance plus \$50 per dependent

Monthly stipends and all allowances are issued directly to fellows by the Graduate Fellowships Program. Tuition and fees are paid directly to the fellow's graduate institution.

Twelve-month awards are available for applicants planning to study full-time during the 1978 summer session and the 1978-79 academic year. Ten-month awards are available for full-time study during the 1978-79 academic year only.

Graduate School Re-admission:

Each fellow is responsible for initiating and completing all steps necessary for re-admission to an accredited graduate school offering the doctorate in his or her chosen field if he or she is not currently enrolled, and must do so before a fellowship can be initiated. The Graduate School must be located in the United States or Puerto Rico. It is the responsibility of the fellow to have an official letter of re-admittance to a doctoral program sent to the Graduate Fellowships Program by the graduate dean or departmental chairperson.

Application Process:

Applications must be requested by individual applicants on or before December 23, 1977. All applications must be received no later than January 5, 1978. Notification of decisions will be mailed to applicants on March 15, 1978.

For applications and additional information write to:

Graduate Fellowships for Mexican Americans,
Native Americans and Puerto Ricans
Educational Testing Service
Box 200
Berkeley, California 94704

Smithsonian Institution
Program of Higher Education and Research
Training 1978-79

No. FY78-56

Smithsonian Fellowships are awarded to support independent research in residence at the Smithsonian, in association with its staff and using its collections, archives, and other facilities. Proposals for research may be offered in fields in which the Institution has research strength: the history of technology, including especially engineering, electricity, transportation, agriculture, air and space, and industrial archaeology; the history of the physical sciences, mathematics, medicine, and the social dimensions of science. Opportunities in both technology and science are broadest within the American experience.

Other Areas Include:

- * The History of Art
- * American History and Material Culture
- * Earth Sciences
- * Biological Sciences
- * Anthropology
- * The History of Technology and Science

Smithsonian Fellowships are Available to:

Postdoctoral Scholars:

To pursue further training in research. A limited number of fellowships is available; \$10,000 stipend per annum plus research allowance.

Applications Due: 15 January 1978

Doctoral Candidates:

To conduct research for their dissertations with approval of their university departments. A limited number of fellowships is available; \$5,000 stipend per annum plus research allowance.

Applications Due: 15 January 1978

Graduate Students:

To conduct two- to three-month directed research and study projects. A few fellowships of \$100 per week are awarded each year.

Applications Due: 1 March 1978

Application Materials:

For more information and for application materials write: Office of Academic Studies, Smithsonian Institution, Washington, D.C. 20560. Indicate the particular area in which you propose to conduct research and give dates of degrees received or expected.

Saint Louis University
Andrew W. Mellon Fellowship Program
Vatican Film Library

No. FY78-57

Background:

The Andrew W. Mellon Foundation has made available a grant for a five-year postdoctoral fellowship program to assist scholars wishing to conduct research in the manuscript collections in the Vatican Film Library at the Saint Louis University. The program is designed to provide travel expenses and a reasonable per diem to scholars with well defined research projects for periods of research in the Vatican Film Library ranging from less than a month to a full semester, including periods of summer research.

Areas of Interest:

Projects proposed for support under the fellowship program can be in such areas as classical languages and literature, paleography, scriptural and patristic studies, history, philosophy and sciences in the Middle Ages and the Renaissance, the history of music, the history of manuscript illumination, the history of Roman and canon law and political theory.

Deadlines:

Research projects can be scheduled only within one of the following periods: January 15 to May 15, June 1 to July 31, September 1 to December 22. Persons wishing to apply for research support within one of these periods should first write to indicate the exact dates (beginning no later than one year after the date of writing) during which support is desired. These persons will thereupon be notified whether facilities (microfilm reader, etc.) are still available for the desired dates; and if facilities are available these persons will be given a deadline by which project descriptions (including letters of recommendation) must be submitted. Decisions concerning the suitability of projects for support, and the amount of support offered, will be communicated usually within two weeks of the receipt of project descriptions. A description should include a precise statement of the project, an account of current research, a bibliography of the applicant's publications in areas related to the project (with some samples of recently published research), a curriculum vitae, a statement of the length of time for which support is requested (with related figures on anticipated travel and per diem expenses), and letters from three persons qualified to judge the applicant's manuscript research skills in the project area. Applicants are encouraged to consider the fellowship program also as a means of supplementing the partial funding which they may be able to obtain from their own institutions or other sources, so that program funds can be extended to as many interested scholars as possible.

Address applications and related correspondence to:

Andrew W. Mellon Fellowship Program
Vatican Film Library
Pius XII Memorial Library
Saint Louis University
3655 West Pine
Saint Louis, Missouri 63108

National Institute of Education Basic Skills Research Grants

No. FY78-58

The National Institute of Education has announced a program of support for research relevant to education in the basic skills.

Proposals for research in six selected areas are invited. These areas are:

- * Teaching
- * Literacy
- * Mathematics Learning
- * Measurement
- * Methodology
- * Law and Education

Approximately \$2 million will be made available in fiscal year 1978 to fund projects selected under this program.

Due date for submission of proposals is October 31, 1977.

A copy of the guidelines is available in the Office of Advanced Studies, Division of Research and Sponsored Programs.

U.S. Office of Education 1978-79 Teacher Exchange Program

No. FY78-59

Opportunities will be available to teach overseas during academic year 1978-79 or to attend a seminar abroad during the summer of 1978. Teaching positions will involve interchanges with teachers from Canada, Germany, New Zealand, Switzerland and the United Kingdom. A one-way assignment will be available in Denmark.

Summer seminars will be held for teachers of 1) art and art history in Belgium and the Netherlands, 2) German and German studies in Germany, and 3) classics and Italian in Italy. Subject to the availability of funds, seminars may be held for 1) teachers of world/Middle Eastern history in Egypt, 2) teachers of world/Asian history in India, and 3) social studies supervisors and curriculum directors in India and Pakistan.

Eligibility Requirements: U.S. citizenship; bachelor's degree; 3 years of teaching experience for the teaching positions, and 2 years for seminar grants for teachers; 3 years of experience for seminar grants for supervisors and curriculum directors; current assignment in subject field of seminar; fluency in German for Germany and in French or German for Switzerland.

Application Period: September 1 -- November 1, 1977. Brochure and application forms can be obtained in September from:

Teacher Exchange Section
Division of International Education
Office of Education
U.S. Department of Health, Education, and Welfare
Washington, D.C. 20202

Current Publications And Other Scholarly Works

ARTS AND LETTERS
HUMANISTIC AND SOCIAL STUDIES

Economics

Bonello, Frank J.

F.J. Bonello and T.R. Swartz. 1977. What happened to the Catholic school crisis? Journal of Church and State 19(2):231-240.

Kim, Kwan S.

K.S. Kim. 1977. Developmental effects of Japan's recent private investment in East and Southeast Asia: An evaluation. Journal of Asian Affairs 2(2):18-25.

Modern and Classical Languages

Renaldi, Thomas W.

T.W. Renaldi. 1977. Notes on the functions of Acaso, Quiza(-s) and Tal vez in American Spanish. Hispania 60(2):332-336.

Psychology

Merluzzi, Thomas V.

T.V. Merluzzi, B.H. Merluzzi, and T.J. Kaul. 1977. Counselor race and power base: Effects on attitudes and behavior. Journal of Counseling Psychology 24(5):430-436.

SCIENCE

Biology

Thorson, Ralph E.

T.M. Roberts and R.E. Thorson. 1977. Pairing between adults of *Nippostrongylus brasiliensis* and other species of nematodes in vitro. Journal of Parasitology 63(4):764-766.

Chemistry

Castellino, Francis J.

S.P. Bajaj, R. Byrne, T. Nowak, and F.J. Castellino. 1977. Interaction of manganese with bovine Factor X. Journal of Biological Chemistry 252(14):4758-4761.

Nowak, Thomas

S.P. Bajaj, R. Byrne, T. Nowak, and F.J. Castellino. 1977. Interaction of manganese with bovine Factor X. Journal of Biological Chemistry 252(14):4758-4761.

Schwartz, Maurice E.

*M.E. Schwartz. 1977. Electron spectroscopy. Pages 357-380 in, H.F. Schaefer III, ed. Methods of Electronic Structure Theory. Plenum Publishing Corporation.

* Under the Radiation Laboratory

Mathematics

Phan, Kok-Wee

K.W. Phan. 1977. On groups generated by three dimensional special unitary groups I. Journal of the Australian Mathematical Society 23(A):67-77.

ENGINEERING

Aerospace and Mechanical Engineering

Nee, Victor W.

K.S. Rao, V.W. Nee, and K.T. Yang. 1977. Mass diffusion from a point source in a neutral turbulent shear layer. Journal of Heat Transfer 99(3):433-438.

Yang, Kwang-Tzu

G.B. Lewis, J.L. Novotny, and K.T. Yang. 1977. An experimental study of natural convection mass transfer along a vertical plate with surface injection. Journal of Heat Transfer 99(3):446-452.

K.S. Rao, V.W. Nee, and K.T. Yang. 1977. Mass diffusion from a point source in a neutral turbulent shear layer. Journal of Heat Transfer 99(3):433-438.

BUSINESS ADMINISTRATION

Accountancy

Pattillo, James W.

J.W. Pattillo. 1977. Zero-Base Budgeting: A Planning, Resource Allocation, and Control Tool. National Association of Accountants. 86pp.

Rueschhoff, Norlin G.

N.G. Rueschhoff. 1977. The acceptance of international accounting standards in North America. The Accountants' Journal (New Zealand) 56(4):144-146.

Marketing Management

Dreves, Robert A.

R.A. Dreves, R.M. Durand, and T.H. Mattheiss. 1977. Multiple discriminant analysis and several small samples - to split, combine, or treat separately. Decision Sciences 8(3):567-575.

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.

<u>Agency</u>	<u>Programs</u>	<u>Application Closing Dates</u>
Department of Labor	Manpower-Related Doctoral Dissertation Grants	December 1, 1977
Department of Transportation	Fellowships and Scholarships in Highway Safety and Technology	December 1, 1977
Department of Transportation	Program of University Research in Transportation	December 1, 1977
East-West Center	Grants and Awards	December 15, 1977
Health Services Administration	Research in Maternal and Child Health and Crippled Children's Services	December 1, 1977
Law Enforcement Assistance Administration	Visiting Fellowships - National Institute of Law Enforcement	November 15, 1977
Uniformed Services University of the Health Sciences	School of Medicine	December 15, 1977

documentation

Phalin Collection Inaugural Lecture

(The following is the speech delivered by Paul Horgan, two-time Pulitzer Prize winner for his imaginative recreations of the American Southwest and Notre Dame's 1976 Laetare Medalist, at the inauguration of the Howard and Evangeline Phalin endowment of a collection of English literature to the Memorial Library, September 30, 1977)

Very reverend Father President, Mr. and Mrs. Phalin, Members of the University, and Guests:

What we celebrate here today is not only an act of imaginative generosity--it is an act of faith in the value of man's empowering inheritance--the power to use the best of his past to enlighten his present and create an effective cultural future.

By their splendid material gift, the much-loved donors whom we celebrate today once again share with us their faith in the spiritual necessity in human life: once again--for we already know the visible sign of their many-chambered belief every time we see the towering image of Christ the Teacher on the south face of this library which abides there through their grace. I am grateful to be allowed to add the tribute of an honorary alumnus to all those others which they receive today.

Howard and Evangeline Phalin's munificent new endowment of a collection of English literature for the library implies a wide view of the written art which the spirit of English literature has long revealed.

I now want to take advantage of that amplitude of vision. If it is not inappropriate, I will speak of an artist whose intellectual and spiritual values transcend the nationality of her origin even as her initial vision derives from the American truths of her first awareness of the world. But this led her to the greater world--made her a citizen of the General Republic of Letters--one worthy to stand with fellow artists in any literature.

WILLA CATHER AND THE INCALCULABLE DISTANCE

I. In her life span of 73 years (1874-1947), Willa Sibert Cather was a literary migrant who became a familiar of five distinct regional American cultures. Born in Virginia she was taken as a child of nine years to Nebraska in 1883. Nebraska was then very much a pioneer world. There she grew up on immense and empty prairies until she went to the university of the state at Omaha, and began to discover the vehicle of her taste and to form its standards.

During her youthful years she first saw the American Southwest. Her brother, to whom she was close, was a young trainman, and on visits to him she came to know the small town life of the area, and to discover vastness of an outer dimension greater even than that of her early prairies.

Looking eastward, Chicago was the lodestone of all the aspiring talents of the frontier region. Miss Cather was inevitably drawn there as a young discoverer for the sake of concert and theatre performances, the growing museums, and that sense of artistic independence of New York and its claims which Chicago has always declared.

In 1896 she removed to Pittsburgh to assume teaching tasks and later editorial work. This move brought her closer to New York and--most significantly--to Europe. In due course, she found Europe itself, and forever after her vision held a deeper perspective--an informed criterion--in both life and art.

Finally, settling in New York, she became a fastidious and discerning inhabitant of the world of art and artists, the latter chiefly among musicians, and among singers, chiefly singers at the opera. New England for summers, Canada for forays into history and other climates, were pendant to her New York life.

But if she was a migrant, yet at home in all such places through entering into their particularities which she understood with so fine an eye for detail and atmosphere, she was also their inhabitant in a deep inner dimension: for the evidences of all the different climates of life which beckoned to her so strongly gave her a varied approach to her art as a writer. The very landscape of each place became part of her vision and richly affected her prose expression. The local lives subject to their various backgrounds extended the range of her understanding of the infinitely varied terms of human aspiration, with its constant call to that desire which might lie beyond the immediate grasp.

The meaning of art at its largest came to her more fully the more widely she encountered its evidences in all places, from the most primitive society to the most knowledgeable.

In all these aspects of geographical variety, and of their associated human types, Miss Cather, from first to last, I think, pursued through her own growth as an artist, a single, all-determining vision--a theme, however deeply buried it may at times seem to be--which can be recognized with emotion in most of her novels, stories and essays.

What this is, we shall try to identify in due course.

II. But first, another word about Willa Cather as a migrant, and again, as one who could bring her love for the lands of her life to the written page with an artistry unsurpassed in our literature.

Her feeling for Nebraska began in a response of fear. She was, after all, a child nine years old when she was removed from the intimate leafy valleys of Virginia to the stretches of the Nebraska prairies which seemed at first to be without character. In an interview given in Philadelphia in 1913, she said of her first sight of the flat lands:

"The land was open range and there was almost no fencing. As we drove further and further out into the country, I felt a good deal as if we had come to the end of everything--it was a kind of erasure of personality."

She had been

"thrown out into a country as bare as a piece of sheet iron."

Her father told her to show grit in a new country, and she tried to, but she was undone by the song of meadowlarks which "every now and then flew up and sang a few splendid notes and dropped down into the grass again. That reminded me of something--I don't know what, but my one purpose in life just then, at nine, was not to cry, and every time they did it, I tried not to go under."

It is an easy game too often played in our age of pop psychology to fix one childhood trait as the determinant of a whole life; but here we may, I think, really see something of Willa Cather's permanent nature: her eye for the fact, her courage in stating what she saw, as the artist must, her susceptibility to the lyric expressions of nature, her deep store of the nostalgic impressions needed by every artist, and her courage in self-discipline.

In any case, we know from early novels how she came to love that very land and the universal simplicities of its immigrant people.

As she entered with her particular quiet awareness into such lives, Miss Cather time and again gave arresting and beautiful glimpses of their land, once she had with the advance from childhood come to love it as she did its people, and saw, and felt, the beauties and the troubles of both.

From One of Ours, that novel, a triumph for its first half which is laid in the prairies, we take some glimpses of them which are conveyed to us through the life of young Claude Wheeler. (We must be brief, despite the temptation to quote at length for the sake of Miss Cather's felicity of vision and word:)

"When he came up the hill like this, toward the tall house with its lighted windows, something always clutched at his heart. He both loved and hated to come home. He was always disappointed, and yet he always felt the rightness of returning to his own place."

And again:

"The sun had dropped low, and the two boys, as Mrs. Wheeler watched them from the kitchen window, seemed to be walking beside a prairie fire."

And again:

"His body felt light in the scented wind, and he listened drowsily to the larks, singing in dried weed and sunflower stalks. At this season their song is almost painful to hear, it is so sweet. He sometimes thought of this walk long afterward: it was memorable to him, though he could not say why..."

But perhaps we can, if we remember the nine-year-old who tried not to cry when the larks sang to her homesickness. Such examples are opulent. Every book is alive with them. Some of the most marvellous are in Lucy Gayheart, My Mortal Enemy, (both are small masterpieces generally misunderstood), A Lost Lady, and The Professor's House (another magnificent novel whose form is so often derided by unimaginative critics and teachers). But no example of Miss Cather's almost painterly evocation of those details of surrounding life which make her people so believable in their times and places, seems to me more memorable as scene and prose, than this passage in the story "Two Friends" in the wonderful book of stories, Obscure Destinies, when the narrator remembers a scene from her girlhood:

"The road, just in front of the sidewalk where I sat and played jacks, would be ankle-deep in dust, and seemed to drink up the moonlight like folds of velvet. It drank up sound, too: muffled the wagon wheels and hoof-beats; lay soft and meek like the last residuum of material things--the soft bottom resting-place. Nothing in the world, not snow mountains or blue seas, is so beautiful in moonlight as the soft, dry summer roads in a farming country, roads where the white dust falls back from the slow wagon-wheel."

Any list of foregrounds--we say foregrounds rather than backgrounds because the scene is always so closely woven into the very presences who enact her stories--any such list significant to Miss Cather's characters must mention the mysterious and primal splendours of the cliff dwellings of prehistoric southwestern pueblo people which occur importantly in her work. The Mesa Verde of Colorado early captivated her sense of a deep and self-sufficient past, and in suitable variations gave extraordinary dimension to The Song of the Lark. The Professor's House and (the first appearance of the scene) the little story called "The Enchanted Bluff" which appeared in a magazine in 1909.

But her eye is not only for open country--many of her city-scapes are memorable, as in such books and stories as The Song of the Lark (Chicago and New York); My Mortal Enemy (which has scenes of Madison Square like early photographs by Stieglitz); A Lost Lady (Denver), and the New York prima donna stories in Youth and the Bright Medusa which reflect the period taste of the French Impressionists.

What all this landscape painting means is that Willa Cather, drawing on the great riches of her many visual worlds, sees in them not only inherent beauties, but also their hold on her people--a hold which in many cases is tyrannical and imprisoning; from which, whether through larger inner vision or actual physical action, removal, escape, deliverance, a release into distance must be had, or death, actual or metaphorical, will follow. It is this larger element of awareness behind all her place pictures which relieves them of any hint of softness or sentimentality--that merely pictorial value which, unattracted to character, has so little value--though in much fictional writing it is so widely on admired by innocent readers who congratulate authors on their "descriptions."

III. So from her physical worlds, Willa Cather early began to create for herself an all-pervading aspect of her life and world which she had to reach no matter what local limitations in her younger life might do to restrain her leap of mind. It was a mind-world which she sought. If it was not commonly available in Nebraska during her youth, she reached for its evidences as they could be seen from afar.

In a charming and touching sense, she created her own local center of great culture. It is not likely that Nebraska in general was then deeply concerned with what went on in the theatres and opera houses and art galleries and literary workings of New York, London, or Paris. But such affairs were the breath of life to the brilliant college student at Omaha. During her university years, and for five or six years after, Miss Cather became the critical informer on highly various matters of art for various local Nebraska newspapers.

When it was time for her to move to editorial and teaching work in Pittsburgh, she published in "The Home Monthly," presumably for a more sophisticated audience; but the tone of her observation and opinion was the same. Where she once unservingly brought the great world to the prairie provinces, now, moving closer to larger fields, she was equally confident.

To her, culture, in the non-anthropological sense, was never merely local. She was the one who knew and cared more about the great world of culture far beyond her personal participation; and she must fulfill it and satisfy a deep private need by not only pursuing it, but by demonstrating it in public writing.

In this all-discerning appetite in her early career for those human achievements which lift mankind above the ordinary run of life--"Oh Lord!" as the Frenchman exclaimed, "How daily life is!"--Willa Cather was rehearsing, refining, even defining, that aspect of her vision which earlier we announced but did not identify as an all-determining element of her literary gift. Perhaps we may now discuss clues to what this is.

IV. In her short novel Lucy Gayheart, Miss Cather has her heroine looking forward from her little Nebraska town on the Platte River to the next evening when she would be returning to her rented room in Chicago. She was going to hear a great singer's song recital in the city. "In a few hours," says the novel, leading us to the phrase which seems to enclose and yet extend the whole determining concept which runs like a precious vein throughout the controlled passion of Willa Cather's life and work, "In a few hours one could cover that incalculable distance; from the wintry country and homely neighbors, to the city where the air trembled like a tuning fork with unimaginable possibilities."

So short a time, so small a journey, and yet so "incalculable" a distance, between the mundane binding of life and the utmost freedom and exaltation: The distance is incalculable because it is an interior dimension.

It is aspiration, it is humility before the greatest of human works, it is delight so keen in the established justice of a truly achieved work of art that no pang is too great to suffer if only it can be felt.

Let the homely neighborhood commitments do their best to frustrate the desire to travel that distance. They will do so in vain. The desire is greater than its foes. It will prevail. It prevailed in imagination when Willa Cather created for her newspapers in her student years the atmosphere and knowledge of the cultivated world elsewhere. It prevailed in actuality whenever she went to Chicago to hear music, to see paintings, to watch great actors.

The obvious quality of distance is of course physical--the distance measurable between places. But more importantly for Miss Cather's artistry and her grasp of the deep passions of human life, we recognize a moral distance--the span between ignorance and awareness, between goodness and wickedness, hope and bitter denial, the civilization within a soul and whatever corroding condition would work to destroy it in hatred, and worse, indifference.

"We like a writer," recorded Willa Cather, "much as we like individuals; for what he is, simply, underneath his accomplishments. Oftener than not, it is for some moral quality, some ideal which he himself cherishes, though it may be little discernible in his behavior in the world. It is the light behind his books, and it is the living quality in his sentences."

Bruno Walter said Mahler "was likely to regard the world with the absent-minded glance of the creative artist...like many a creative artist he was likely to forget man while loving humanity." One thinks of Beethoven, also, and possibly Brahms. Now this may be applicable to composers of music and their concern with the essence of the created abstraction. It cannot be quite so true of the literary artist who must be not only concretely communicative but also keenly observant and sympathetic. And yet--there is something in Willa Cather of the musician's detachment--the nerve of the abstract--the enddistancing of the immediate in search of the ultimate. The ultimate is an incalculable distance away, yet it can be discovered. It is the first-rate of any sort to which escape from the mediocre, the banal, the local and limited satisfactions, rooted in the familiar, is vitally necessary.

The discovery can be found in many forms--music, art, place, character, a whole way of life--provided it equals a dimension of life at its height; pure expression at its most intense; aspiration unimpeded by petty cautions, and, yes, duties.

Accordingly, Miss Cather began her search for her own inner as well as outer distance at the university, and in journalism, criticism, teaching, until finally she found it in the writing of her novels and stories; and again and again she made that same search the deep concern of her fictional people.

In Lucy Gayheart, we read of the little town of its setting: "The tides that raced through the open world never came here. There was never anything to make one leap beyond oneself or to carry one away. One's mind got stuffy, like the houses." Lucy herself desired the unknown distance: "How often she had run out on a spring morning, into the orchard, down the street, in pursuit of something she could not see, but knew!"

This was not Bovaryism--Emma was after material fashions and satisfactions. Lucy Gayheart and Willa Cather were after the moral distance which beckoned them.

When she made her first European journey in 1902 at the age of 28, it was, of course, "a great imaginative experience." But what was important about it was what she brought to it on her own. Already she had experienced through study and imagination much of European culture.

It was a long leap geographically, but not in inner distance, when in Paris Miss Cather found a pictorial model for so much she worked to express. "Just before I began The Professor's House" she wrote, "I had seen, in Paris, an exhibition of old and modern Dutch paintings. In many of them the scene presented a living room warmly furnished, or a kitchen full of food and coppers. But in most of the interiors, there was a square window, open, through which one saw the masts of ships, or a stretch of grey sea. The feeling...that one got through those square windows was remarkable, and gave me a sense of the fleets of Dutch ships that ply quietly on all waters of the globe--to Java," and farther.

Here again, then, is that opening into the distance, whether in fact or metaphor, for which Miss Cather had her own particular square window of consciousness. For her, the incalculable distance reached not only forward toward the risk of the unfamiliar action, but also deeply into the human inheritance, which can enfold like a mantle and give reassurance to those able to clothe themselves in it.

While she is unsurpassed in her lyric if restrained passion for the American scene at its humblest--the farms, prairies, the small towns smothered under their great snows or wilted under their great heatwaves--she was not limited to Emerson's view when he said that "our day of dependence, our long apprenticeship to the learning of other lands, draws to a close." Always, for her, the immediate foreground was given greater interest by the incalculable nearness of the mother cultures in lands abroad. Thus her love of opera.

Wagner especially, French painting, Latin literature, the manner and dress of old seasoned societies in long-mellowed cities of the old world. For her novelistic purposes, the bridge in one direction--old world to new--was made by the immigrants with their cultural roots in the other direction. For her the inner world was without seam. It was the seamless life of her inner life which rescued her from the common events of the day, wherever they may have occurred.

In many of her fictional characters, that space of freedom took different forms and definitions. For herself, she has told us in one instance, it took the form of a living contact with a remnant of her literary experience.

One day, she says in her essay "A Chance Encounter," she met, at Aix-Les-Bains, an ancient lady who was the niece of Flaubert. They became daily acquaintances. The old lady offered Miss Cather a keepsake of the famous uncle. But Miss Cather said, "The things of her uncle that were valuable to me I already had, and had had for years. It rather hurt me that she should think I wanted any material reminder of her or of Flaubert."

So, no collector of souvenirs, she enddistanced herself from the material, the mundane. It was as if she must escape, even in this little comedy of mistaken civility, the dailiness of life, and in her art, again and again implant her vision of that escape in the creatures of her contained and impassioned fancy.

One of her people whom she seemed most to love is Tom Outland in *The Professor's House*. He typified the natural yet sensitive man of the open country--perhaps rather like that brother who moved farther west in her girlhood. In the novel, when he enters a room, she says, "One seemed to catch glimpses of an unusual background behind his shoulders"...and to be sure, he turns out to be the discoverer of "The Blue Mesa" (for which read Mesa Verde) and its preserved marvels of a beautiful civilization long lost.

It is a sort of declaration of honor that Willa Cather, having stated her own distance so eloquently, was yet able to see and love so eloquently the origins, in their modest localism, which she had to briskly left behind. Talking with her Chicago music teacher, who extols small town life, Lucy Gayheart says: "You think so because you live in a city. Family life in a little town is pretty deadly. It's being planted in the earth, like one of your carrots there. I'd rather be pulled up and thrown away."

But oh, we reflect, oh, the greys! Life is never simple. The novelist goes on to say of Lucy, "She loved her little town, but it was a heart-broken love, like loving the dead who cannot answer back..."

V. In one of his marvellous critical intuitions, Leon Edel wrote, à propos of Willa Cather, "It might be said that writers--and writers of fiction in particular--are engaged in creating parables about themselves."

We may say further, that Willa Cather was of her time, as all true artists are of their times. They cannot help but be, no matter what the origins of their beliefs and styles. Of her time, as she was, it was never in the way of prevailing modes--those treacherous, often blaring causes and voices which season after season seem so eternally timely, but which actually are as fugitive as the newspapers and the critical orthodoxies of the day--and of as little aesthetic interest, whatever other value they may possess.

Writing amidst the atmospheres, awarenesses, surfaces of her time, Willa Cather reflected some of these quite naturally as elements of that integument which is necessary to any body of life.

But what makes the life of her work survive, as in the case of any work of art, is not primarily the matter but the quality and style of expression in which it is presented. She was a true artist of prose, and it is her prose which breathes with the life of her characters, near and far in her own experience.

Every artist must necessarily have a vision reaching farther than his art can express.

Who has ever fully realized for others his design and his feeling?

But without the incalculable distance in the inmost vision of those inherited works which we regard as our greatest, their makers could never have approached it as nearly as they managed to do.

For us, this is near enough, to our enrichment, if not to theirs.

For one last glimpse of Willa Cather's use of the prosaic to express the innermost nature of a sympathetic human being, let us hear this in summary: One time when Lucy Gayheart was a girl of 13, workmen came to pave the sidewalk in front of her small town family house. After they were done that evening, she went, when she thought no one was looking, to the still wet cement and "ran over those wet slabs--one, two, three, and then out into the weeds beside the road" leaving three footprints in the new cement. Suddenly she sees standing nearby a young man who later, and all his life, wanted to marry her, but never did, because of a tragic misunderstanding. Long later, she drowns in an accident on ice that is already thawing. A few days after her funeral, the man who loved her but never held her goes, all those years later, to her old family house which is closed for disposal. He is taken by thought. "What was a man's 'home town', anyway, but the place where he had had disappointments and had learned to bear them?" So he muses.

Now we come to the closing of this exquisite novel which stands as the conclusion for our theme, and also as a breath-taking summary of a particular human creature--Lucy Gayheart, the girl who tried to reach for her own incalculable distance, had failed, and had come home. "As he was leaving the Gayhearts'," the now middle-aged man who once hoped for Lucy in his life, came to the now old pavement.

The book ends with these words:

"He paused mechanically on the sidewalk, as he had done so many thousand times, to look at the three light footprints, running away."

ND-SMC Fall 1977 Final Examination Schedule

- I. LAST CLASS DAY--is Wednesday, Dec. 14, 1977. Examinations begin at 8 a.m. Friday, Dec. 16, 1977 and continue through to 12:30 p.m. Thursday, Dec. 22, 1977. (Thursday, Dec. 15 is a study day and no examinations may be scheduled.) No examinations are to be scheduled on Sunday, Dec. 18.
- II. REGULATIONS FOR FINAL EXAMINATIONS--Two hour final examinations must be given on the assigned examination dates for undergraduate courses. 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.
- III. JANUARY GRADUATES--If a graduating student has "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 students will be provided to the faculty on the Semester Grade Lists. These students take their final examinations at the regularly scheduled time.
- IV. DEPARTMENTAL AND FRESHMAN EXAMINATIONS--All freshmen courses are examined at a departmental time increment. The authorized departmental examinations are:

DEPARTMENT & COURSE NUMBER	EXAMINATION TIME	DATE OF EXAMINATION
ACCT 221	7:30 - 9:30 p.m.	Monday, Dec. 19
ACCT 476	7:30 - 9:30 p.m.	Wednesday, Dec. 21
ANTH 109	1:45 - 3:45 p.m.	Wednesday, Dec. 21
ARCH 144	4:15 - 6:15 p.m.	Tuesday, Dec. 20
ART 151	4:15 - 6:15 p.m.	Wednesday, Dec. 21
BA 234	7:30 - 9:30 p.m.	Wednesday, Dec. 21
BA 340	7:30 - 9:30 p.m.	Tuesday, Dec. 20
BIOL 101	1:45 - 3:45 p.m.	Saturday, Dec. 17
BIOL 103	8:00 - 10:00 a.m.	Thursday, Dec. 22
CHEM 115	1:45 - 3:45 p.m.	Saturday, Dec. 17
CHEM 115L	10:30 a.m. - 12:30 p.m.	Thursday, Dec. 22
CHEM 223	1:45 - 3:45 p.m.	Tuesday, Dec. 20
CHEM 223L	1:45 - 3:45 p.m.	Saturday, Dec. 17
EASC 101, 111, 121	1:45 - 3:45 p.m.	Saturday, Dec. 17
EASC 141	1:45 - 3:45 p.m.	Friday, Dec. 16
ECON 121	8:00 - 10:00 a.m.	Saturday, Dec. 17
ECON 223	7:30 - 9:30 p.m.	Friday, Dec. 16
EG 120	1:45 - 3:45 p.m.	Friday, Dec. 16
EG 126	4:15 - 6:15 p.m.	Tuesday, Dec. 20
EG 321	7:30 - 9:30 p.m.	Tuesday, Dec. 20
EG 328	7:30 - 9:30 p.m.	Wednesday, Dec. 21
EG 334	7:30 - 9:30 p.m.	Monday, Dec. 19
ENGL 109	1:45 - 3:45 p.m.	Monday, Dec. 19
ENGL 113	10:30 a.m. - 12:30 p.m.	Friday, Dec. 16
FIN 360	7:30 - 9:30 p.m.	Saturday, Dec. 17
FIN 372	7:30 - 9:30 p.m.	Friday, Dec. 16
FS 180	1:45 - 3:45 p.m.	Monday, Dec. 19
GP 191	10:30 a.m. - 12:30 p.m.	Friday, Dec. 16
GOVT 141	1:45 - 3:45 p.m.	Wednesday, Dec. 21
HIST 100 Level	1:45 - 3:45 p.m.	Wednesday, Dec. 21
HUM 185	1:45 - 3:45 p.m.	Monday, Dec. 19
MARK 231	7:30 - 9:30 p.m.	Tuesday, Dec. 20
MATH 100 Level	1:45 - 3:45 p.m.	Tuesday, Dec. 20
MATH 117	8:00 - 10:00 a.m.	Monday, Dec. 19
MATH 225	10:30 a.m. - 12:30 p.m.	Tuesday, Dec. 20
MET 225	7:30 - 9:30 p.m.	Friday, Dec. 16
MGT 231	7:30 - 9:30 p.m.	Saturday, Dec. 17
MGT 463	7:30 - 9:30 p.m.	Monday, Dec. 19
Modern and Classical Languages 100 Series	1:45 - 3:45 p.m.	Friday, Dec. 16

<u>DEPARTMENT & COURSE NUMBER</u>	<u>EXAMINATION TIME</u>	<u>DATE OF EXAMINATION</u>
MLFR 203, 241	1:45 - 3:45 p.m.	Friday, Dec. 16
MLSP 241	1:45 - 3:45 p.m.	Friday, Dec. 16
PHIL 101	4:15 - 6:15 p.m.	Monday, Dec. 19
PHYS 111	1:45 - 3:45 p.m.	Saturday, Dec. 17
PHYS 125, 141	1:45 - 3:45 p.m.	Friday, Dec. 16
PHYS 201	1:45 - 3:45 p.m.	Saturday, Dec. 17
PHYS 210	10:30 a.m. - 12:30 p.m.	Tuesday, Dec. 20
PHYS 221, 241	1:45 - 3:45 p.m.	Monday, Dec. 19
PSY 111	1:45 - 3:45 p.m.	Wednesday, Dec. 21
ROTC	8:00 - 10:00 a.m.	Tuesday, Dec. 20
SOC 100 Level	1:45 - 3:45 p.m.	Wednesday, Dec. 21
SOC 371	1:45 - 3:45 p.m.	Saturday, Dec. 17
THEO 100 Series	8:00 - 10:00 a.m.	Monday, Dec. 19
UNSC 101, 111	1:45 - 3:45 p.m.	Saturday, Dec. 17

- V. NON-DEPARTMENTAL 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. Seventy-five 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.

<u>CLASSES MEETING AT:</u>	<u>WILL BE EXAMINED AT:</u>	<u>DATE</u>	<u>CLASSES MEETING AT:</u>	<u>WILL BE EXAMINED AT:</u>	<u>DATE</u>
8:00 a.m. MON.*	8:00 a.m. FRI.	DEC. 16	8:00 a.m. TUES.**	10:30 a.m. TUES.	DEC. 20 (SMC)
9:05 a.m. MON.	8:00 a.m. THURS.	DEC. 22	9:05 a.m. TUES.	10:30 a.m. WED.	DEC. 21
10:10 a.m. MON.	8:00 a.m. MON.	DEC. 19	10:10 a.m. TUES.	10:30 a.m. THURS.	DEC. 22
11:15 a.m. MON.	8:00 a.m. WED.	DEC. 21	11:15 a.m. TUES.	10:30 a.m. THURS.	DEC. 22
12:00 p.m. MON.	8:00 a.m. SAT.	DEC. 17			
1:15 p.m. MON.	4:15 p.m. TUES.	DEC. 20	1:15 p.m. TUES.	10:30 a.m. FRI.	DEC. 16
2:20 p.m. MON.	4:15 p.m. FRI.	DEC. 16	2:20 p.m. TUES.	10:30 a.m. SAT.	DEC. 17
3:25 p.m. MON.	4:15 p.m. SAT.	DEC. 17	3:25 p.m. TUES.	8:00 a.m. TUES.	DEC. 20
4:30 p.m. MON.	4:15 p.m. MON.	DEC. 19	4:30 p.m. TUES.	10:30 a.m. MON.	DEC. 19
5:35 p.m. MON.	4:15 p.m. WED.	DEC. 21			

* 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 1977 Final Examination Schedule

	FRIDAY Dec. 16	SATURDAY Dec. 17	MONDAY Dec. 19	TUESDAY Dec. 20	WEDNESDAY Dec. 21	THURSDAY Dec. 22
8:00 a.m. to 10:00 a.m.	8MWF 8M 8W 8F	12MWF SMC: 12M BuEc 251 12W 252 12F Nurs 201 ECON 121 Chem 151	10MWF THEO 100 Level 10M MATH 117 10W 10F	3TU SMC: 3TH Bio 219 ROTC	11MWF 11M 11W 11F	9MWF SMC: 9M Math 9W 115 9F BIOL 103
10:30 a.m. to 12:30 p.m.	1TT3 1TU 1TH GP 191 ENGL 113	2TT4 2TU 2TH	4TT6 SMC: 4TU BuEc 201 4TH Soc 203	MATH 225 PHYS 210 8TT10(SMC) 8TU(SMC) 8TH(SMC)	9TT11 9TU 9TH	10TT12 10TU 10TH 11TU 11TH Chem 115L
1:45 p.m. to 3:45 p.m.	MODL 100 Level MLSP 241 MLFR 203,241 EASC 141 PHYS 125,141 EG 120 SMC: BuEc 309 EnLt 457 Mlit 101 MIFr 101:61,62 MIFr 111:62,64	BIOL 101 CHEM 115,223L EASC 101,111,121 PHYS 111,201 UNSC 101,111 SOC 371 SMC: EnLt 101,103 203,241 Soc 272	FS 180 ENGL 109 HUM 185 PHYS 221,241 SMC: Bio 103	MATH 100 Level CHEM 223 SMC: EnLt 407,451 Math 102,104, 105 Nurs 403	ANTH 109 GOVT 141 HIST 100 Level PSY 111 SOC 100 Level SMC: Hist 101, 103	
4:15 p.m. to 6:15 p.m.	2MWF 2M 2W 2F	3MWF 3M 3W 3F	4MWF SMC: 4M BuEc 207 4W Hist 201: 4F 63,64 PHIL 101	1MWF 1M 1W 1F EG 126 ARCH 144	5MWF ART 151 5M 5W 5F SMC: Govt 206 Rist 225	
7:30 p.m. to 9:30 p.m.	MET 225 ECON 223 FIN 372 SMC: Chem 111 Govt 151,152 Math 114	MGT 231 FIN 360 SMC: Phit 110,114 HuSt 321	EG 334 ACCT 221 MGT 463 SMC: Soc 153 HuSt 463	EG 321 MARK 231 BA 340 SMC: BuEc 208 Educ 319	EG 328 BA 234 ACCT 476 SMC: Phit 118	

Dean Joseph C. Hogan
College of Engineering
Notre Dame, IN 46556

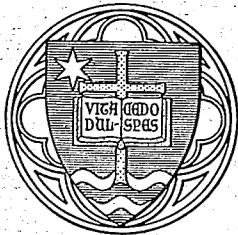
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