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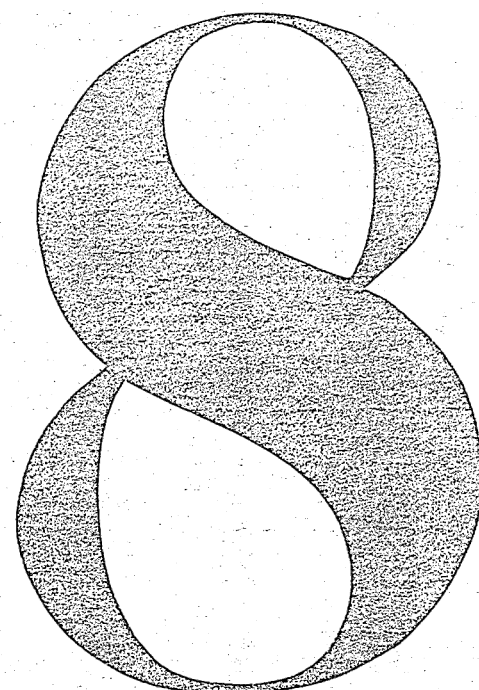
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the university

Official announcements

ND REPORT PUBLICATION SCHEDULE:

<u>Deadline for Material</u>	<u>Publication Date</u>
Wednesday, January 5	Friday, January 14
Wednesday, January 19	Monday, January 31
Thursday, February 3	Tuesday, February 15
Thursday, February 17	Tuesday, February 29
Friday, March 3	Wednesday, March 15
Monday, March 20	Thursday, March 30
Tuesday, April 4	Friday, April 14
Tuesday, April 18	Friday, April 28
Wednesday, May 3	Monday, May 15
Thursday, May 18	Tuesday, May 30

Study of the liberal arts at Notre Dame

December marked the end of the first quarter of a year long study of the liberal arts and their future at Notre Dame. A quarterly report has been submitted to the National Endowment for the Humanities. The endowment has made the study possible through a planning grant given to the Committee on the Humanities for the College of Arts and Letters late last spring.

During the summer and early autumn, organization for the study took shape under the direction of Dean Frederick Crosson of the College of Arts and Letters. A co-ordinating and supervisory body for the study was established. It is composed of faculty members of the College and chaired by A. Robert Caponigri, professor of philosophy and chairman of the College's Committee on the Humanities. This group is known as the Dean's Committee on Collegiate Development.

The Dean's committee has generated a set of working subcommittees in the major areas of inquiry. The subcommittees involve forty six faculty members, administrators and students from nearly all areas of the University. The subcommittees and their chairmen are as follows:

1. On the Notre Dame Idea of Liberal Education--Professor A. Robert Caponigri.
2. On Collegiate Structure and Curriculum--Dean Frederick Crosson.
3. On the Student Role in Liberal Education--Mr. Alfred Giuffrida.
4. On the Role of the Fine and Performing Arts in Liberal Education--Professor Thomas Fern.
5. On the Role of the Social Sciences in Liberal Education--Professor John Roos.
6. On the Role of the Natural Sciences in Liberal Education--Professor Michael Crowe.
7. On Inter-College Relations--Professor Robert Nuner.

Lungren named president of Alumni Association

Dr. John C. Lungren, a Long Beach, Calif. physician and medical consultant to President Richard M. Nixon, has been elected the 60th president of the Notre Dame Alumni Association. He succeeds Robert A. Erkins of Buhl, Idaho.

A 1938 graduate of Notre Dame, Dr. Lungren has been a director of the 50,000-member association during the last two years. The alumni president serves as a member of the University's Board of Trustees, and the retiring president serves the association as an honorary director for an additional year.

Dr. Lungren presently serves as chief of staff at Memorial Hospital, Long Beach, Calif. He received his medical training at the University of Pennsylvania and served as a battalion surgeon in the U.S. infantry during World War II. He was a postgraduate fellow of the National Heart Institute at the University of Southern California School of Medicine.

Survey of U.S. foundations' contributions to Notre Dame

A recent Development Office survey of the top 15 U.S. foundations and their relationship to Notre Dame revealed the following (amounts given to the University in parentheses): Ford (\$17.1 million); Kellogg (\$1.6 million); Sloan (\$1.4 million); Rockefeller (\$800,000); Carnegie (\$564,000); Hartford (\$350,000); Houston Endowment (\$110,000); Kresge (\$100,000); and Lilly (\$31,000). The University has received no support from the Mott Foundation, the Pew Memorial Trust, and the Rockefeller Brothers Fund. Restrictions prevent gifts from the Duke Endowment, the Longwood Foundation and the Moody Foundation.

New tax laws require an increased yearly payout by foundations, and Notre Dame has, accordingly, intensified its solicitation program in this area, which is under Justin A. Soleta, assistant director in charge of special development programs.

WATS line change

All employees are hereby notified that there are to be no personal calls made over the WATS lines except during the weekends; that is, Saturdays and Sundays. Genuine emergencies are an exception but such calls must be confined to the evenings.

When making a personal call, the individual must state his or her name and the fact that it is a personal call. The name of the department or the name of the department head should not be used when personal calls are being made. The correct wording to be given to the operator for business and personal calls is as follows:

Business: Professor White of the physics department calling Lincoln, Nebraska

Personal: Professor White, Extension 4652, making a personal call to Lincoln, Nebraska

Weekends: Miss Jones, Extension 4562, making a personal call to Madison, Wisconsin.

In the news

If one believes Newsweek (Dec. 16), there is a place in George Wallace's cabinet, should he win the presidency, for former Notre Dame Law School Dean Clarence Manion. . . another conservative, William F. Buckley Jr., put Dr. Gerhard Niemeyer's book, "Between Nothingness and Paradise," among the year's best in a survey of authors by Book World (Dec. 5). . . random interviews with Chicago Notre Dame alumni by the Chicago Daily News (Dec. 4) revealed mixed feelings about next fall's co-education with a majority in favor. . .

Major Francis Gould, assistant professor of naval ROTC at Notre Dame, defends the "citizen-soldier" input into the armed services in a December Marine

Corps Gazette article. . . the statement on the contemporary Catholic university carried in the last Notre Dame Report has been criticized for its liberal cast by S. Thomas Greenburg, director of a St. John's University (N.Y.) Institute of Catholic Higher Education (Chronicle of Higher Education, Dec. 6). . .

Notre Dame's decision to stay out of bowl football competition was not popular with everyone, but Chicago Tribune Sports columnist Robert Markus wrote, "In college football, Notre Dame, with its great heritage, is something special. For the Irish to accept a bid to just any bowl game would have been as unseemly as for Van Cliburn to accept a piano gig in a bordello." (Nov. 22). . .

AEC-supported catalysis research in Notre Dame's Radiation Laboratory by Dr. James J. Carberry, professor of chemical engineering, and Dr. George C. Kuczynski, professor of metallurgical engineering, may have practical applications in the \$15 billion-a-year antifreeze and related products industry (South Bend Tribune, Dec. 7). . .

Although protest rallies have all but disintegrated, non-governmental discussions on ending the war in Vietnam have not yet come to a close. More than 100 Christian and Jewish leaders, including Rev. Theodore M. Hesburgh, have agreed to co-sponsor a conference to investigate possible roles that churches and synagogues can play in ending the war. A pamphlet describing the rationale for holding a conference at a time when the antiwar movement seems to have lost much of its fervor states: "The war in Indochina goes on. The planes and firepower of the United States continue their frightful destruction of land and life. The casualties of the United States decline, for which we are thankful. Yet the war continues to take its heavy toll in the distortion of our national values." The conference will be held January 13-16 in Kansas City, Missouri. Other sponsors include John C. Bennett, president emeritus of Union Theological Seminary; Mrs. Coretta Scott King; and Rabbi Irving Lehrman, president of the Synagogue Council of America. (The New York Times, Nov. 21).

Admissions statistics

Applications for male students are up 40 per cent, and for female students 30 per cent over last year. Of the 1,626 members in the current University freshman class, 25 per cent won National Merit honors, 57 per cent were members of the National Honor Society, 11 per cent were presidents of their student body or senior classes. Forty eight per cent of the class were in the top 10 per cent of their high school graduating classes.

The Admissions Office is seeking an increase in freshman enrollment for the College of Engineering next year, due to a dip experienced this fall. Alumni Schools (recruiting) committees will be reorganized on a regional basis with greater information and follow-through provided by the Admissions Office.

Notre Dame Credit Union

Recently elected officers of the Notre Dame Credit Union are James P. Daneby, president; Lawrence Stauder, 1st vice president; Daniel Osberger, 2nd vice president; Wanda Buesching, secretary; and Ruth E. Kelly, treasurer-manager. Other directors

are William E. Slowey, William Eagan, Richard Thompson and Thomas J. Kirschner.

In addition to its savings and loan services, the Credit Union offers various forms of insurance protection on loans and savings. In January, 1971, Share Insurance by the NCUA was begun as part of the Credit Union offerings.

faculty notes

University appointments

John Barkett, president of the Student Government, has announced the appointment of Fred Giuffrida, a senior from Lyons Hall, and David Hoppe, a junior from Morrissey, as student representatives to the University Grade Committee.

Non-university appointments

Dr. Bernard D. Cullity, professor of metallurgical engineering and materials science, has been appointed to the Magnetic Materials Panel of the Advisory Committee to the Air Force Systems Command of the National Academy of Sciences--National Academy of Engineering.

Dr. William H. Leahy, associate professor of economics, has been elected to the Executive Council of the Association for Social Economics (The Catholic Economic Association). The seven-member executive council is the governing body of this association. Dr. Leahy has also been accepted as a member of the National Labor Panel of the American Arbitration Association.

Dr. Henry Hare Carter, professor emeritus of modern languages, has been named a corresponding member of the Brazilian Academy of Philology, and acclaimed by its president "the foremost American specialist in mediaeval Portuguese literature and language."

Dr. Carter also recently returned from Vienna where he was commissioned to complete a paleographical edition of the Portuguese Grail located in the Austrian National Library. Funds for this project were supplied by the American Philosophical Society and the Gulbenkian Foundation.

Dr. Morris Pollard, director of the Lobund Laboratory, has been elected vice president of the Indiana

Branch, American Society for Microbiology. Pollard, whose work on germfree animals is aimed at learning more about cancer, aging and the effects of pollution, was also elected chairman of the Division of Microbiology and Molecular Biology for the Indiana Academy of Sciences.

Miscellany

Dr. Vincent P. De Santis, chairman of the history department, spoke on "The Politics of the Gilded Age" at Indiana University, South Bend, December 7. The lecture was sponsored by the Indiana University Phi Alpha Theta and Forensic Association.

Dr. Nicholas F. Fiore, chairman of the Department of Metallurgical Engineering and Materials Science, has been named a winner of the Adams Memorial Membership Award by the AWS. This award recognizes outstanding educators whose teaching activities are considered to have advanced their students' knowledge of welding.

Dr. George S. Kuczynski, professor of metallurgical engineering and materials science, received special recognition and was awarded a medallion and certificate at the close of the Second Round Table Meeting of the International Team for Studying Sintering, for his pioneering work on sintering, in Herceg-Novi, Yugoslavia, September 6-11.

Dr. William H. Leahy, associate professor of economics, presented a paper, "A Survey of Urban Problems," to the Urban Problem Workshop at the University of Nevada, Las Vegas. The workshop was funded by the U.S. Department of Health, Education and Welfare.

Prof. Christopher O. Osakwe, assistant professor of government and law, spoke on "Contemporary Soviet Theory and Practice of the Lawless Law of Nations," as a special guest lecturer at the University of Illinois Law School November 20.

events

Qumran Anniversary Lecture and Seminar Series

The 25th anniversary of the findings of the first Dead Sea Scrolls--a discovery which cast light on a crucial period in the history of the Jewish and Christian religions--will be commemorated by the Qumran Anniversary Lecture and Seminar Series."

Sponsored by the Department of Theology under a grant from the Rosenstiel Foundation, the series will bring together Jewish and Christian experts on the scrolls for public lectures and academic seminars during the spring term. Dr. Joseph Blenkinsopp Jr., associate professor of theology and director of biblical studies at Notre Dame, is chairman of the series.

In 1947 Bedouin tribesmen stumbled across numerous ancient Jewish writings in caves in the neighborhood of Khirbat Qumran on the west shore of the Dead Seas. The manuscripts gained worldwide attention because of the period they involved, from the second century before Christ to the destruction of Jerusalem in 70 A.D.

"For Christians," Blenkinsopp observed, "this is the period which witnessed the life and death of Jesus, the establishment of the Christian church and the beginning of its expansion. For Jews, it is the time of the Maccabean revolt, the subjection to Roman rule, and the great revolt which ended with the destruction of the Second temple. On any showing, this must be considered one of the most crucial periods in human history."

The schedule of public lectures, which will all begin at 8 p.m. in the lounge of the Memorial Library, is as follows:

January 24--Dr. Theodor H. Gaster, Columbia University, "The Dead Sea Scrolls after 25 years."

February 14--Dr. William H. Brownlee, Claremont Graduate School, "The People of God: The Qumran Community and the Early Christian Church."

March 6--Dr. Lou H. Silberman, Vanderbilt University, "Biblical Interpretation: Qumran, Early Christianity and the Talmud."

April 10--Dr. Geza Vermes, University of Oxford, "Jesus in the Light of Contemporary Judaism and the Qumran Scrolls."

May 1--Dr. Jacob Neusner, Brown University, "Judaism in a Time of Trouble: Responses to the Destruction of Jerusalem in 70 A.D."

Economics workshop

Notre Dame's graduate program in economics and the South Bend Model Cities program will be co-sponsors of the First Annual Interterm Workshop, "Perspectives on Poverty," January 10-14. The interdisciplinary conference, which will bring together both social science theorists and practitioners in the field, will be held in the Architecture Building auditorium on campus. John Lonergan, a graduate student in Notre Dame's economics department, is chairman of the conference.

Speaking Monday on the interdisciplinary aspects of poverty will be Dr. Michael Hannan, professor of sociology, Stanford University; Dr. David Greenstone, professor of political science, University of Chicago; and Dr. Lee Bawden of the Institute for Research on Poverty, the University of Wisconsin; Dr. John Maiolo, a former member of Notre Dame's sociology faculty who directs the Gary, Ind., Income Maintenance Experiment.

Tuesday sessions will include talks by Dr. Terence Kelly, senior economist with the Urban Institute, Washington, D.C.; Sylvester Schiever of the Gary program; Dr. Niles Hansen, University of Texas economics professor; and Dr. Dennis Duggan, chairman of the economics department. Wednesday sessions will be limited to informal afternoon discussion in the University Club.

Speakers Thursday will be Dr. Kenneth Kehrner, staff economist with the Gary program; Dr. William Tabb, City College, New York, N.Y.; and Dr. Charles Metcalf, University of Wisconsin.

Friday morning talks will be given by Dr. John Palmer, Department of Health, Education and Welfare; Nancy Armady, Select Committee on Nutrition and Poverty; representatives of the United Auto Workers; and Thomas Hamal, corporate director of civic affairs for the Borden Company.

office of advanced studies

Special Notice

1972 Annual Report, Research and Scholarly Works, University of Notre Dame

For the past four years, the former office of the Vice President for Research and Sponsored Programs has published an annual report which constituted a summary of scholarly work and activity for the University for the year ending in June. The forthcoming 1972 Annual Report will be published by the new Office of Advanced Studies under Vice President Robert E. Gordon.

For the 1972 report, current plans are to retain the same sections contained in the 1971 report: I. Introduction, II. The University and its Organization, III. Members of the Faculty, with Their Academic Origins and Research and Scholarly Interests, IV. Publications and Other Scholarly Works Made Public - July 1, 1971 to June 30, 1972, V. Investigations and Works Completed But Not Yet Made Public, as of June 30, 1972, VI. Doctoral Theses in Progress, as of June 30, 1972, VII. Other Investigations and Works in Progress as of June 30, 1972, and VIII. Awards for Sponsored Programs for Research, Facilities and Equipment, Education, and Service. In addition, incorporation of a section on Masters Theses in Progress, as of June 30, 1972 is being planned.

Except for Section IV, data for Sections III, V, VI, and VII will be requested as in the past. Entries for Section IV will be compiled by the Office of Advanced Studies in conjunction with the listing of publications in the Notre Dame Report, and the establishment of a permanent file on faculty publications. At an appropriate time, listings of publications accumulated by the Office of Advanced Studies will be distributed to the faculty for editing and additions. Hopefully, this procedure and the establishment of a permanent file will relieve the faculty of the time consuming chore of compiling a list of their publications several times each year.

If the new procedure is to be successful, it is essential that notice of publications be submitted to the Office of Advanced Studies on a continuous basis. Faculty members are requested to transmit a record of their publications to Assistant Vice President Francis M. Kobayashi as soon as they have definitive information as to bibliographic descriptors. Better still, would be submission of a reprint of the published article.

Information Circulars

Ford Foundation Dissertation Fellowships in Ethnic Studies

NO. FY72-32

The Ford Foundation will offer a limited number of dissertation fellowships in ethnic studies for the academic year 1972-73.

These fellowships are designed to encourage original and significant contributions to the body of knowledge concerning five ethnic minorities whose history and culture form an integral but largely neglected part of the American experience -- Black Americans, Mexican Americans, Puerto Ricans, Asian Americans, and American Indians.

The deadline for receipt of applications will be March 1, 1972. The names of the awardees will be announced sometime during the first week of May, 1972.

The Foundation will operate directly through the Graduate School rather than with individual applicants. Applications may be obtained in the Graduate School Office.

Naval Ship Research and Development Center

General Hydromechanics Research Program for Fiscal Year 1973

NO. FY72-33

The Naval Ship Research and Development Center has announced the General Hydromechanics Research Program for Fiscal Year 1973. The program for the forthcoming year, sponsored by the Naval Ship Systems Command, is expected to experience a resurgence in effort following several years of retrenchment. The renewed activity will for the most part be addressed to the area of novel ship ideas and concepts rather than to refinement of present techniques and knowledge.

The due date for submission of proposals is March 15, 1972. Informal written inquiries to ascertain the suitability of research ideas for the program are encouraged and will be accepted for comment until February 1, 1972.

A brochure describing the scope of the program, the procedures to be followed in submitting proposals, and a description of the administration of sponsored research is available in the Office of Advanced Studies - Division of Research and Sponsored Programs. Call Dr. Francis M. Kobayashi, Extension 7378, for further information.

National Science Foundation India-United States Exchange of Scientists

NO. FY72-34

The Governments of India and the United States have established a program for increasing the exchange of scientists and engineers between the two countries. In an agreement signed February 14, 1967, the two nations recognized the value of exchange visits by senior level scientists and engineers as one of the more effective means of increasing communication and collaboration between the scientific communities of these countries.

While some of the special scientific resources of India are well known, their variety and richness are not widely appreciated. Current scientific development extends to such fields as ionosphere, cosmic ray, and atomic physics, protein structure, the chemistry of natural products, cytotoxicology and genetics of crop plants, biological productivity, endocrinology and steroid pharmacology, chemotherapy of tropical diseases, management of soil and ground water resources, weather forecasting, demography, science planning, urban design, topology, number theory, and the improvement of science teaching. India has rich biotic and environmental resources, suggested by the range from glaciers to coconut plantations; the opportunities for scientific exchange are supported by a well developed academic establishment and a system of industrially oriented, national laboratories.

The national agencies responsible for administering the exchange program are the National Science Foundation (NSF) in Washington and the Council of Scientific and Industrial Research (CSIR) in New Delhi. The role of each national agency includes selecting its country's participants in the exchange program, acting as host to the visitors from the other country, and corresponding with its counterpart agency in the other country.

Nature of the Program

Senior scientists of the United States wishing to make short visits to India in order to work with Indian colleagues on projects of mutual interest may receive travel support under the India-United States Exchange of Scientists Program. This program offers opportunities to work in new environments with unique research materials and to make long range plans for collaboration with Indian research centers.

Applications will be received for evaluation at any time of the year by the National Science Foundation. Interested scientists should allow four to six months for NSF selection and CSIR concurrence, and for planning the trip, including appointments and arranging the travel.

Further information and application forms may be obtained from:

India-United States Exchange of Scientists Program
Office of International Programs
National Science Foundation
Washington, D. C. 20550

Telephone: (202)632-5806

**National Science Foundation
International Travel Grants for NATO Advanced Study Institutes**

NO. FY72-35

The National Science Foundation announces that it plans to award international travel grants to about 80 young U.S. scientists to attend some 40 NATO Advanced Study Institutes in Europe during the summer of 1972.

The Institutes provide highly advanced instruction on specific topics in the physical, life, and social sciences, and in engineering and mathematics. The institutes normally last from two to three weeks and are conducted in an atmosphere that will promote international scientific fellowship and cooperation. Junior faculty and advanced graduate and postdoctoral students who are citizens of the United States are eligible to apply.

Since NSF travel grants are made only upon nomination by a NATO Institute Director, interest in the grants should be expressed to the appropriate Director, not to NSF.

General information about these grants, and a list of NATO Institutes which will be available for distribution in March 1972, may be requested from:

Advanced Science Education Program
Graduate Education in Science
National Science Foundation
Washington, D. C. 20550

Telephone: AC 202, 282-7768

Current Publications And Other Scholarly Works

ARTS AND LETTERS HUMANISTIC AND SOCIAL STUDIES

Economics

- W.I. Davisson and L.J. Bradley. "New York Maritime Trade: Ship Voyage Patterns, 1715-1765." N.Y. Hist. Soc. Qrtly. 1971, 50, 4, 309-317.

English

- D. Gutierrez. "Circles and Arcs: The Rhythm of Circularity and Centrifugality in D.H. Lawrence's Last Poems." D.H. Lawrence Rev. 1971, 4, 3, 291-300.
D. Gutierrez. "Ghosts Benific and Malign: the Influence of the Noh Theatre on Three Dance Plays of Yeats." Forum 1971, 9, 42-48.
L.L. Hasley. "The Golden Trashery of Ogden Nashery." Arizona Qtrly. 1971, 27:3, 241-250.
L.L. Hasley. "The Hamlet of Peter De Vries." South Atlantic Qtrly. 1971, 70:4, 467-476.
L.L. Hasley. "The Talk of the Town and the Country: E.B. White." Connecticut Rev. 1971, 5:1, 37-45.

History

- B.B. Szczesniak. "Imperial Coronation of Gniezno in A.D. 1000." Polish Studies 1971, 1, 1-15.

Modern and Classical Languages

- A. Rubulis. "Ar Gribu." Latuija Amerika 1971, Oct. 2, through Nov. 10, 6.
A. Rubulis. "Indoeropiesu un Kaukaziesu Kultura." Latvija Amerika 1971, Nov. 6, 6-8.
A. Rubulis. "Ko Mes Iegusim." Laiks 1971, Nov. 6, 2.
A. Rubulis. "Latvijas Zeme." Laiks 1971, Nov. 17, 3.

Sociology and Anthropology

- A.J. Rubel, A.J. Weigert, and W.V. D'Antonio. "Protestantism and Assimilation among Mexican-Americans: An Exploratory Study of Ministers' Reports." J. Sci. Study Relig. 1971, 10, 219-232.
A.J. Weigert, W.V. D'Antonio, and A.J. Rubel. "Protestantism and Assimilation among Mexican Americans: An Exploratory Study of Ministers' Reports." J. Sci. Study Religion 1971, 10, 219-232.
A.J. Weigert and D.L. Thomas. "Socialization and Adolescent Conformity to Significant Others: A Cross-National Analysis." Amer. Sociol. Rev. 1971, 36, 835-847.

Theology

- J. LaPorte (Rev.). "La Chute Chez Philon et Origene." Kyria Kon 1971, 320-335.
L.L. Mitchell. "Four Ordinals." Worship 1971, 45, 9, 529-538.

SCIENCE

Biology

- R.D. Goodfellow, with F.J. Barnes. "Mevalonate Kinase: Localization and Variation in Activity During the Development of *Sarcophaga bullata*." J. Insect Physiol. 1971, 17, 1415-1427.
R.D. Goodfellow, F.J. Barnes, and W.J. Graham, Jr. "Dietary Sterol Effects on Mevalonate Kinase Activity in Axenic and Non-axenic *Sarcophaga bullata* (Diptera)." J. Insect Physiol. 1971, 17, 1625-1635.
P.P. Weinstein and H.J. Saz, with T.P. Bonner. "Synthesis of Cuticular Protein during the Third Molt in the Nemafole *Nippostrongylus brasiliensis*." Comp. Biochem. Physiol. 1971, 40B, 121-127.

Chemistry

- E.L. Eliel, with A.J. Jones, D.M. Grant, M.C. Knoeber, and W.F. Bailey. "Carbon-13 Magnetic Resonance. Conformation in Some Tert-Butyl-1, 3-Dioxanes." J. Amer. Chem. Soc. 1971, 93, 4772-4777.
*T.P. Fehlner, with G.W. Mappes and S.A. Fridmann. "Direct Mass Spectrometric Measurements of the Rates of Association Reactions of Borane in the Gas Phase." Adv. Mass Spectrometry 1971, 5, 478-480.
*K. Funabashi, C. Hebert, and J.L. Magee. "Effects of Optical Bleaching on Luminescence Decay and Trapped Electron Concentrations in γ -Irradiated 3-Methylpentane at 77°K." J. Phys. Chem. 1971, 75, 3221-3229.
*W.H. Hamill, with S. Khorana. "Electronic Processes in the Pulse Radiolysis of Aqueous Solutions of Halide Ions." J. Phys. Chem. 1971, 75, 3081-3088.
*W.H. Hamill, with P.B. Merkel. "Evidence for a Low-Lying Triplet State of the Hydroxide Ion." J. Chem. Phys. 1971, 55, 2174-2177.
*J.C. Hsieh, U. Laor, and P.K. Ludwig. "Consideration of the Absorption Characteristics of Organic Vapors in Interpretation of the Decay Properties of Excited Vibronic States: Naphthalene." Chem. Phys. Letters 1971, 10, 4, 412-417.
*S. Khorana and W.H. Hamill. "Electronic Processes in the Pulse Radiolysis of Aqueous Solutions of Halide Ions." J. Phys. Chem. 1971, 75, 3081-3088.

- *A. Mozumder. "Model for Neutralization and Scavenging of Charges in Irradiated Dielectric Liquids. I. Evolution of the Neutralization Process in Multiple Ion-Pair Cases." J. Chem. Phys. 1971, 55, 6, 3020-3025.

 *Under the Radiation Laboratory

Microbiology

- *M. Pollard. "The Germfree Rat." Pathobiology Annual 1971, 83-94.
 *M. Pollard. "From Molecules to Man." Perspectives Virology 1971, 7, 15-22.
 *M. Pollard and N. Sharon. "Prevention and Treatment of Spontaneous Leukemia in Germfree AKR Mice (35817)." Soc. Exp. Biol. Med. 1971, 137, 4, 1494-1497.
 *N. Sharon and M. Pollard. "Effects of Cyclophosphamide on Lesions Induced by Persistent LCM Virus Infection in Gnotobiotic Mice." Archiv für die gesamte Virusforschung 1971, 34, 278-286.

 *Under the Lobund Laboratory

Physics

- C.P. Browne, with J.R. Duray. "Accurate Excitation Energies of ^{14}N up to 9.4 Me V." Phys. Rev. 1971, C3, 1867.
 E.H. Berkowitz, G.L. Marolt, A.A. Rollefson, and C.P. Browne. "Survey of the ^9Be Ghost Anomaly." Phys. Rev. 1971, C4, 1564.

- E.H. Berkowitz and H. Stocker. "Search for the H_3^+ Ion." J. Chem. Phys. 1971, 55, 4606.
 E.A. Coomes with W. Niehaus. "Surface-barrier Analysis for Niobium and Tantalum and Ta-on-Nb from Deviations in the Thermionic Schottky Effect." Surface Sci. 1971, 27, 256.
 J.T. Cushing. "Internal Symmetry Propagation in the Strong Interaction S Matrix." Phys. Rev. 1971, D4, 1177.
 E.G. Funk and J.W. Mihelich, with R.A. Belt. "Half-Life and Angular Correlation Measurements in the Decay of ^{147}Eu ." Nucl. Phys. 1971, A175, 129.
 B.M. Khorana. "Determination of $\hbar\text{N}$ Using Josephson Effect in Superfluid Helium." Proc. 12th Internatl. Conf. Low Temp. Phys. 1971, 85.
 B.M. Khorana and D.H. Douglass, Jr. "Influence on the Fundamental Constants of a Precise Measurement of the Josephson Effect in Liquid Helium." Proc. Internatl. Conf. Precision Meas. Fundamental Constants, NBS Spec. Publ. 343. 1971, 247.
 W.C. Miller, with T.J. Lewis and D.L. Friesel. "Stabilization of the Notre Dame 7.5-Me V Electron Accelerator." Nucl. Instr. and Meth. 1971, 223.
 W.C. Miller and J.M. Piowaty. "A Momentum Analyzer of High Resolution." Nucl. Instr. and Meth. 1971, 96, 221.
 H. Stocker and E.H. Berkowitz. "Atomic Charge State Ratios of ^{16}O Ions from 18.7-59.7 Me V." Can. J. Phys. 1971, 49, 480.

Monthly Summary

Awards Received

IN THE MONTH OF NOVEMBER, 1971

Department or Office	Principal	Short title	Sponsor	Amount-\$ term
AWARDS FOR RESEARCH				
Physics	Kenney, Poirer	Elementary particle interactions	Natl. Sci. Fdn.	258,500 1 yr.
Microbiology- Lobund Lab.	Wagner	Supply allowance for research fellowship	Public Health Service	1,000 1 yr.
Inst. Studies Education	Fahey	Economic problems of non-public schools	U.S. Office Educ.	5,000 2 1/2 mos.
Law School	Shaffer	Research and development project in law	Spencer Fdn.	28,900 1 yr.
Aerospace Mechanical Eng.	Nicolaides	Magnus forces on spinning bodies of revolution	U.S. Army- Durham	25,000 1 yr.
Music	Leahy	Transcription and edition of Rome, Vat. Basilic B.79	Natl. Endow. Humanities	13,040 1 yr.
Chemistry	Freeman	Chemistry of N-Hydroxypyrazoles	Natl. Inst. Health	20,205 1 yr.
Government Internatl. Studies	Kommers	Political representation and jurisprudence in West Germany	Natl. Endow Humanities	5,192 10 1/2 mos.
Metallurgical Eng.	Cullity	Bethlehem Steel Corp. research grant	Bethlehem Steel Corp.	3,500 6 mos.
AWARDS FOR FACILITIES AND EQUIPMENT				
Metallurgical Eng.	Fiore	Rapid heating, controlled temperature furnace	Rudy Mfg. Co.	1,500 ---
Administration	Gordon	Television monitors	Michiana Public Broad Corp.	1,400 ---
AWARD FOR EDUCATIONAL PROGRAMS				
Marketing	Furuhashi	Grant-in-aid	Gilbert's	500 ---

Summary of Awards Received and Proposals Submitted

IN THE MONTH OF NOVEMBER, 1971

AWARDS RECEIVED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	4	\$287,205	5	\$ 73,132	9	\$360,337
Facilities and Equipment	-	---	2	2,900	2	2,900
Educational Programs	1	500	-	---	1	500
Service Programs	-	---	-	---	-	---
Total	5	\$287,705	7	\$ 76,032	12	\$363,737

PROPOSALS SUBMITTED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	5	\$141,536	18	\$739,701	23	\$881,237
Facilities and Equipment	-	---	-	---	-	---
Educational Programs	2	29,729	3	64,510	5	94,239
Service Programs	-	---	-	---	-	---
Total	7	\$171,265	21	\$804,211	28	\$975,476

Closing Dates For Selected Sponsored Programs

Agency	Program	Application Closing Dates	
American Council of Learned Societies	Advance Research in Progress	February	1, 1972
	Summer Research in Linguistics	February	15, 1972
	Study of East European Languages	February	1, 1972
Doherty Fellowship Committee	Fellowships for Latin American Studies	February	1, 1972
Dumbarton Oaks Center for Byzantine Studies	Visiting Fellowships	February	1, 1972
Environmental Protection Agency	Radiation Research and Training Grants	February	1, 1972
	Solid Wastes Research and Training Grants	February	1, 1972
Folger Shakespeare Library	Library Fellowships	February	15, 1972
Institute for Advanced Studies in the Humanities	University of Edinburgh Research Fellowships	February	12, 1972
National Endowment for the Humanities	State and Community Programs	February	1, 1972
National Institutes of Health	National Library of Medicine Special Scientific Project Awards	February	1, 1972
	National Library of Medicine Publication Grants	February	1, 1972
	Research Projects Grants	February	1, 1972
	Training Grants	February	1, 1972
	Biotechnology Resources	February	1, 1972
	General Clinical Research Centers	February	1, 1972
	Project Grants to Support Animal Resources	February	1, 1972
	Training Grants in Laboratory Animal Medicine	February	1, 1972
National Institute of Mental Health	Research and Project Grants	February	1, 1972
	Mental Health Small Grant Program	February	1, 1972
	Training Grants	February	1, 1972
	Metropolitan Problems, Minority Studies, and Mental Health Epidemiology Programs	February	1, 1972
	Alcoholism and Narcotic and Drug Abuse Programs	February	1, 1972
	Programs in Mental Health of Children, Families, and the Aging, and Occupational Mental Health	February	1, 1972
	Programs in Crime and Delinquency, and Suicide Prevention	February	1, 1972
Public Health Service	Miscellaneous Training Programs	February	1, 1972
	Miscellaneous Research Programs	February	1, 1972
Senior Fulbright-Hays Program	Fellowship for Research in the Manila Treaty Area	February	1, 1972
Social and Rehabilitation Service	Development and Expansion of Undergraduate and Graduate Programs in Social Work	February	1, 1972
	Research and Demonstration Grants	February	1, 1972
U.S. Department of Justice	National Institute of Law Enforcement and Criminal Justice Research and Development Grants	February	1972
U.S. Office of Education	Financial Assistance for the Improvement of Undergraduate Instruction (Equipment)	February	15, 1972

documentation

Highlights of 1970-71 Annual Report

Following are highlights of the 1970-71 Annual Report of the University and some comments of Father Wilson. Copies of the complete report will be mailed soon to faculty and administrative staff.

Highlights for Year 1970-71 Compared With 1969-70

<u>FINANCIAL OPERATIONS</u>	1970-71	1969-70
Revenues from operations - total	\$ 48,721,199	\$ 44,312,563
Student tuition and fees	16,778,689	14,784,885
Endowment income	884,711	653,147
Sponsored research and other programs	10,264,551	9,262,542
Expenses in operations - total	51,294,498	47,413,375
Instruction	13,528,064	12,449,629
Sponsored research and sponsored programs	10,264,551	9,262,542
Libraries	1,471,498	1,395,828
Plant operations	2,829,091	2,609,170
Administrative and general	2,933,225	2,812,660
Gifts received - total	8,904,419	6,875,383
Unrestricted	2,169,950	1,442,872
Student aid - total	4,001,169	3,721,262
Scholarships, fellowships, grants	3,400,793	3,248,227
Loans	600,376	473,035
Plant Expenditures	4,746,052	6,677,405
<u>FINANCIAL CONDITION</u>		
Endowment - estimated market	67,922,000	55,904,981
Investment in properties - book value	75,749,166	73,638,177
Properties at insured replacement value	167,000,000	153,000,000
University retirement plan - estimated market	2,252,990	1,791,349

STATISTICS

Enrollment - undergraduate	6407	6194
Enrollment - graduate and professional	1749	1730
Faculty	774	765
Degrees awarded - bachelor	1506	1386
Degrees awarded - advanced	841	817
Tuition - undergraduate	2100	1900
Tuition - graduate	1860	1670

Unfortunately, the 1970-71 Financial Report reflects only a momentary respite in the continuing tight economic situation in which the University finds itself. Last year we reported to you an anticipated cash deficit for 1970-71 of \$70,000. We are very happy to report that we had a cash excess of \$76,200 for the year ended June 30, 1971. In fear that you may be quickly lulled into optimism about our financial situation, we must inform you that we are budgeted for a \$700,000 loss for the year 1971-72. This, of course, we find discouraging. We felt we were getting expenditures under control, only to find that the inroads of inflation and the almost insatiable demands for increased expenditures have once again thrown us out of balance. We do hope to improve on the budgeted \$700,000 deficit, for we have a slightly larger enrollment than predicted. With some forced economies, the actual loss for the present year could be closer to \$400,000.

We continue to find certain types of expense, such as Power Plant and Insurance costs, rising above anticipated inflationary increases, and effective January 1, 1972, the University comes under the Unemployment Insurance law which will require an expenditure of about \$150,000 in 1971-72 and almost \$300,000 a year thereafter.

For comparison purposes, once again we list operating deficits over the last few years:

1968-69 actual - Operating Cash Deficit	\$937,000
1969-70 actual - Operating Cash Deficit	596,000
1970-71 actual - Operating Cash Deficit	76,200 (excess)
1971-72 anticipated - Operating Cash Deficit	700,000

In light of the disappointing budget situation for 1971-72, at the present time we are holding a series of meetings in which we are once again closely analyzing all expenditures of the University. While it may be possible to curtail or forego certain expenditures, we must be sure the education offered Notre Dame students is not impaired by such moves. In striving for a balanced budget, our efforts must be based on properly established priorities in all areas of the University. In this day and age no University can continue to do everything it would like to do. The choices made undoubtedly will favor those things the University of Notre Dame can do best.

Our financial situation is serious. One possible help is contained in bills apparently nearing passage in Congress. One such bill provides across-the-board aid to colleges and universities for general operating expenses. In the meantime, we must do everything possible to maintain a balanced budget with or without government aid.

Jerome J. Wilson, c.s.c.

Jerome J. Wilson, C.S.C.
Vice President, Business Affairs

Thirteen Rules For Academic Meetings

The following was written by Dean Thomas Shaffer of the Law School, helped by other pantalogue experts on his faculty, and appeared in a recent Journal of Legal Education.

1. All delegates to academic meetings must cultivate the ability to discuss any subject for any length of time. This largely implicit credential supports an ancient threshold principle: No subject is too trivial for serious academic consideration. An ancient tradition is at stake, a tradition which has been identified (in unpublished research by the Notre Dame Law faculty) as the pantalogue -- that is, the public life of a community of scholars in which everyone talks about everything all the time.
2. No subject is unitary; there are no irreducible elements in academic meetings; everything is capable of being separated into parts and discussed, one part at a time, as provided in Rule 1. Seldom affirm, as the medieval scholastics said; never deny; always distinguish.
3. Academic meetings in the pantalogical tradition are deliberative rather than decisional. Decision is to deliberation what conviction is to the pursuit of truth; delegates in the deliberative tradition therefore avoid decision in meetings. Reference to committee--or, if the meeting is a committee meeting, to sub-committee--and mandate for further study, are ideals for the responsible delegate, much as equivocation, rather than tiresome assertion, is the ideal in scholarship.
4. Fraternal correction requires that delegates discipline the occasional errant proponent of action. One should first recommend cold showers. If cold showers fail, the only solution may be compromise and a call for multi-page, single-spaced mimeographed memoranda. See also Rules 8-9.
5. If the proponent of action does not profit by fraternal correction under Rule 4, delegates must look to the defense of the pantalogical community. In that case, the duty of delegates is to declare unclear all memoranda written by the proponent of action. This declaration must be made without reference to a demonstrated familiarity with the content of the memoranda, to the end that substance which survives Rule 4 will be referred somewhere under the provisions of Rule 3.
6. Delegates to academic meetings are called to an exacting level of personal humility. It is especially important that delegates who have information capable of being communicated in a meeting exercise restraint. Information is not and never has been within the academic tradition codified in Rule 1.
7. Rule 6 does not, however, pertain to statements of insular information which communicate nothing. If, for example, the meeting is composed of persons on both sides of what C.P. Snow calls the two cultures, each side may orally initiate information directed to the other side, provided only that each side couch its initiated information in language peculiar to its scholarly tradition. Glimmers of understanding in the eyes of listeners will indicate to the speaker that he has either misread Snow, or overestimated his audience, and that the statement falls under Rule 6, rather than under this rule. Because the sudden realization that he is understood is embarrassing to a speaker, courtesy suggests that listeners devise whatever means they can to appear interested but puzzled. Questions which betray no understanding of the speaker are useful, are to be encouraged, and should be answered in reference to the principle of Continuous Interrupted Monologue. (See Rule 12.)
8. Proposals for decisive action, and especially action taken without full and fair adherence to these Rules, may be designated as legalistic, tied with ribbon and stored in 14-

inch filing cabinets. This Rule obtains except in meetings of academic lawyers, where offending proposals are to be designated as metaphysical or theological and treated under Rule 9.

9. Proposals which do not clearly fall within Rule 3 may be designated as metaphysical or, in colleges and universities which are church-related, theological. Metaphysical and theological proposals are to be mimeographed. (See Rule 4.)

10. Enthusiastic endorsement of proposals tends more to decision than to deliberation. Enthusiasm is therefore not appropriate in academic meetings. If a proposal is brought to a vote -- and that result will signify that these Rules have been neglected -- all affirmative votes should be stated with facial expressions signifying reluctance. (Negative votes are forbidden. See Rule 2.)

11. Every qualified delegate to any one academic meeting must normally also attend other academic meetings. Meetings take time. These facts suggest, as a canon of professional courtesy, that no referral be made which requires action by delegates who are present. Of course, proposals calling for any kind of action are clearly outside the spirit of the pantalogue. But should proposals requiring action, notwithstanding this spirit, be passed, the action they call for must be carried out by non-delegates, or, if there are none, by delegates who are not present. If no one is absent and available to do the work, the proposal is by definition legalistic (see Rule 8) or metaphysical (see Rule 9).

12. The spirit of Rule 1, and the pantalogical tradition, require Continuous Interrupted Monologue. C.I.M. is a skill as difficult to master as it is to understand, but a qualified delegate neglects it at peril of incompetence. The central dynamic of Continuous Interrupted Monologue is that no speaker listen to or answer any other speaker. A courtly yielding of the floor, for a moment, is all that the pantalogical tradition has ever required. Once the floor has been returned the speaker should proceed as if he had not been interrupted. Questioners should endeavor to ask questions and make comments which are not related to what the speaker is saying, so that the speaker may conform to this Rule with a minimum of psychic disruption. Academic delegates who believe they teach classes according to the Socratic Method will conform to this Rule with relatively little pain.

13. Duties related to students are normally an economic if not a necessary evil in the pursuit of academic representation. However, teaching and research redound to the credit of a delegate only if he pursues them without detectable interference with his duties as a delegate. A book, two courses and ten committees, for example, is an enviable semester's regimen (attendance at meetings being assumed under Rule 11). Two books, four courses and five committees is less desirable than one small book, no courses and fifteen committees. A regimen of books and courses without committees is, of course, cause for dismissal.

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