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NOTRE DAME

JUN 30 1975

NOTRE DAME  
COLLECTION

'74-'75

# notre dame report

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June 27, 1975

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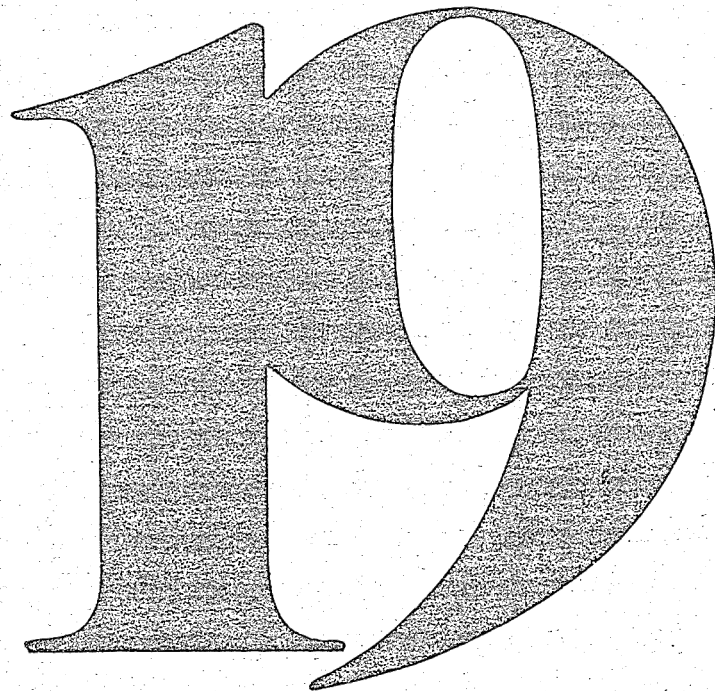
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# the university

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## Summer Session Commencement

Thomas J. Stritch, professor of American Studies and member of the University of Notre Dame faculty for 40 years, will give the commencement address at exercises marking the close of the Summer Session August 8. Stritch is the acting editor of Notre Dame's quarterly publication, the Review of Politics.

The ceremonies at 11 a.m. in the concourse of the Athletic and Convocation Center will be preceded by a Baccalaureate Mass at 9 a.m. in Sacred Heart Church. Rev. James T. Burtchae, C.S.C., provost, will be the principal celebrant at the Mass and master of ceremonies at the commencement exercises. Members of the clergy in the graduating class will be concelebrants.

Rev. Paul E. Beichner, C.S.C., professor of English and Mediaeval Institute, will be the homilist at the Mass. He is a former dean of the Graduate School at Notre Dame.

## Tuition Increase

The University of Notre Dame has raised its 1975-76 undergraduate tuition \$200 to \$2,982. Board and room charges will go up \$100 next year to an average cost of \$1,300.

In writing parents of undergraduates about the increases, voted recently by the University's Board of Trustees, Rev. Theodore M. Hesburgh, C.S.C., University president, cited a recent accreditation report which said Notre Dame's charges compared to those of other private colleges and universities were "a comparative bargain." Father Hesburgh explained the increases were necessary to maintain the institution's financial health.

Graduate tuition at the University will be increased \$200 to \$2,800.

## Co-Exchange Program

Saint Mary's College and the University of Notre Dame have agreed to continue the student co-exchange program, begun in 1965, for the academic year 1975-76.

The announcement by Dr. William A. Hickey, acting president of Saint Mary's, and Rev. James T. Burtchae, C.S.C., provost of Notre Dame, noted that the agreement will retain features of the current program, including a ceiling quota of 3,000 credit hours.

In the spring term ending in May, 383 Saint Mary's students took courses at Notre Dame, and 293 Notre Dame students were enrolled in Saint Mary's classes.

## Memorial Library Summer Session Hours

Monday, June 23 - Thursday, August 7, 1975  
Monday through Saturday, 8 a.m. - 10 p.m.  
Sunday 1 p.m. - 10 p.m.

The hours of service of the Research Libraries are posted in the individual libraries.

All libraries will be open on Independence Day, July 4.

## Engineering Campaign

The University has announced that more than \$505,000 has been raised for the expansion and renovation of its 41-year-old Cushing Hall of Engineering.

The campaign was launched in mid-January to solicit contributions from alumni and friends of the College of Engineering. The new funds will supplement the \$1.5 million already accumulated for the project by the University.

Expansion and renovation is needed to insure first-rate classroom and laboratory facilities for Notre Dame's engineering education program, the oldest at any Catholic university.

## Counseling Institute

A five-day Institute in Structured Group and Consultation Skills will be offered this summer by the Counseling Psychology Program at the University of Notre Dame.

Under the direction of Paul G. Banikiotes and Thomas V. Merluzzi, assistant professors of graduate studies in education, the institute will focus on the consultation process, group approaches to change, design and conduct of workshops and training labs, and evaluation of organizational settings and interventions. Sessions will be held daily July 7-11 from 9 a.m. to 4 p.m.

Participants can earn two hours of academic credit for the institute, which may be of interest to persons in community services, agencies and educational institutions as well as those in the business and industrial communities.

## Winkler Honored

The Council of The Geological Society of America has designated Prof. Erhard M. Winkler of the Department of Earth Sciences as recipient of the 1975 E.B. Burwell, Jr. Award for his book, "Stone: Properties, Durability in Man's Environment" (1973).

The Burwell Award is made to the author or authors of a published work of distinction which advances knowledge concerning principles or practice of engineering geology, or of the related fields of applied soil or rock mechanics where the role of geology is emphasized.

The award will be presented at the Geological Society's annual meeting in Salt Lake City, October 20-22.

## Art Workshops

World renowned ceramics and soft sculpture artisans will serve as faculty-in-residence at the University of Notre Dame during two special Summer Session programs beginning July 7 and July 14. The courses will be open to a limited number of art students seeking advanced credit.

A ceramics workshop in the Old Fieldhouse will be presented July 7-18 by Steve Kemenyffy, Warren MacKenzie, Don Reitz and Ken Vavrek. Reitz has been featured in shows in this country and abroad, represented in more than 20 major collections, including the Smithsonian Institution, and has received commissions from the Smithsonian, Chicago Art Institute and other major art centers. Also represented in the permanent collection of the Smithsonian, MacKenzie received his early training in the studio of Bernard Leach, St. Ives, England, and has been honored at scores of one-man shows in this country, South America and other nations.

Participating in the soft sculpture workshop July 14-18 will be Walter Nottingham, Donna Meilach, James Sampson and Joan Sterrenberg. Additional information may be obtained from Moira Geoffrion of Notre Dame's Art Department for the soft sculpture workshop, and from Bill Kremer for the ceramics course.

## Religious Leaders

Eleven persons will be participating in the Center for Pastoral and Social Ministry's Religious Leaders Program in 1975-76. Begun in 1972, the program is designed to provide a year of reflection and study on the life of the Church in modern society for persons experienced in ministry. Among next year's participants will be Sister Ann Ida Gannon, B.V.M., the retiring president of Mundelein College and the 1975 Laetare Medalist. Others are Sister Joanne Cleary, O.S.F., Stella Niagara, New York; Msgr. Anselm M. Dennehy, O.S.M., Calumet Park, Illinois; Sister Dorothy Feehan, B.V.M., San Francisco; Sister Marita Lannan, O.S.F., Buffalo, New York; Rev. Joseph Leverage, O.M.I., Northwest Territories, Canada; Rev. C. Michael McCaffery, Edmonton, Canada; Rev. Kenneth E. Miller, Regina, Canada; Rev. Jerome E. Rohrer, S.J., St. Paul, Minnesota; Rev. John B. Scorzoni, Plymouth, Massachusettes and Margaret Healy, Rosemont, Pennsylvania.

## Theology Minicourses

A group of late afternoon courses have been scheduled by the Theology Department for persons planning to attend Summer Session classes at the University of Notre Dame. The one-week courses will provide one credit hour, but are equally attractive to persons with an interest in the subject and not seeking a degree.

Intensive courses will be "Biomedical Ethics," 4 to 6 p.m. Monday through Friday and "Christian Marriage Today," 7:30 to 9:30 p.m. every weekday from June 30 - July 4; "Eucharist in the New Testament," 4 to 6 p.m. and "Ethics of Marriage and Sexuality," 7:30 to 9:30 p.m., July 14-18; and "The Role of Religion in Today's Society," 7:30 to 9:30 p.m. July 28 - Aug. 1. Additional information on all summer classes may be obtained from the Director of Summer Session, Administration Building, Notre Dame, Ind.

## Blood Bank

The Central Blood Bank opened a permanent blood collection site on the University of Notre Dame campus June 10. Located in the Student Infirmary, the facility will serve faculty, students and staff in the Notre Dame and Saint Mary's College community.

Central Blood Bank staff members, assisted by volunteers from the St. Joseph County Chapter of the American National Red Cross, will operate the new facility, which will be open Tuesdays and Wednesdays from 9 to 11:15 a.m. and from 1 to 3:30 p.m. Volunteers recruited during the recent blood donor drive among faculty and staff members will be scheduled to donate during the summer months.

## Science and Technology Faculty Seminar

The University's General Program in Liberal Studies has been awarded a \$5,000 educational program grant from the Uniroyal Foundation. The grant will fund a summer interdisciplinary faculty seminar on the Historical Development of Science and Technology for a group of six faculty members drawn from the Colleges of Science, Engineering, Business and Arts and Letters. In operation since 1966, the summer training program will reverse its emphasis this year from a seminar in classical humanism to an examination of the scientific and technological heritage of Western culture.

## Model and Metaphor

A summer seminar on "Model and Metaphor" will be held at the University of Notre Dame from June 16 to August 8 under the sponsorship of the National Endowment for the Humanities.

The seminar, directed by Rev. Ernan McMullin, Notre Dame professor of philosophy, will focus on issues raised by the dependence of scientific theory on model and of literature on metaphor. Participants will include teachers with strong backgrounds in philosophy of science or aesthetics or who have worked with some aspect of the problem of myth, logicians expert in model theory, and scientists involved in reflective interdisciplinary teaching.

# faculty notes

## Faculty Handbook

Updating of the Faculty Handbook is now scheduled for early July. Faculty members who may have errors to report in the present publication or additional informational material which would be of help to the faculty should contact Assistant Provost William Burke (Ext. 6876) by Wednesday, July 9.

## Special Notices

The Notre Dame Faculty Senate has elected the following officers for the 1975-76 academic year:

Chairman	- Paul F. Conway Associate Professor of Finance & Business Economics
Vice Chairman	- Robert L. Kerby Associate Professor of History
Treasurer	- Bobby Farrow Associate Professor of Psychology
Secretary	- James P. Danehy Professor of Chemistry

The name of Rev. Anthony Lauck, C.S.C., director emeritus of the Art Gallery, should be added to those who have devoted 25 years of service to the University. The list appeared in N.D. Report 18, page 408.

## University appointments

Frederick J. Crosson, a professor in the General Program of Liberal Studies and dean of the College of Arts and Letters until this year, has been named editor of The Review of Politics, a scholarly journal of the University. Crosson will assume his editorship when he returns to the campus in the fall of 1976 after a year's leave, and Prof. Thomas Stritch, who has served as acting editor since September, 1973, will direct the publication's editorial affairs until that time.

A former head of the University of Notre Dame's Department of Theology, Rev. Robert S. Pelton, C.S.C., is returning to the University as director of continuing education programs in theology. Working with other theology faculty, Father Pelton will design and administer three-month continuing education programs for the clergy to begin in January 1976.

## Non-university appointments

Rev. Oliver Williams, C.S.C., assistant professor of theology, has been named to the committee on academic study of religion of the College Theological Society.

Rev. Robert Austgen, C.S.C., director of the summer session, has been elected to the board of directors of the North Central Conference on Summer Schools.

George F. Bishop, assistant professor of sociology and anthropology, has been elected conference chairman for the first conference of the Midwest Association for Public Opinion Research to be held in Chicago, October 24-25.

Rev. Theodore M. Hesburgh, C.S.C., University president, has been named recipient of St. Edward's University's 1975 Quest Medal, awarded annually in recognition of outstanding intellectual and humanitarian pursuits and given to Fr. Hesburgh for his defense of academic freedom and civil rights; he also received an honorary degree and delivered the address at the University of Portland's commencement exercises, May 4.

Frank G. Kelly, director of deferred giving at the University, has been named a member of the Committee on Taxation of the American Council on Education. Kelly also was recently appointed director of the 1975 St. Joseph County United Way Campaign.

James Kritzeck, professor of history, was named "Ambassador of the State of Indiana to the Middle East" by Gov. Otis Bowen on May 15. Kritzeck has served as a consultant to the Department of Commerce on an Indiana trade mission to the Middle East.

John W. Lucey, associate professor of aerospace and mechanical engineering, has been elected vice chairman of the Mathematics and Computation Division of the American Nuclear Society.

Brian C. Regan, director of development, has been appointed to the Board of the St. Joseph County Chapter of the American Red Cross.

John Santos, professor of psychology, has been appointed consulting gerontologist to the State of New Mexico Commission on Aging in Santa Fe, New Mexico, and the Metropolitan Area Agency on Aging in Albuquerque, New Mexico, for summer 1975. He is one of 20 gerontologists in the United States to be picked as official state consultants. In preparation for the coming assignment he attended a Special Training Conference for the consultants on May 15-17 in Atlanta, Georgia.

Thomas L. Shaffer, former dean of the University of Notre Dame Law School has been named to the Accreditation Committee of the American Bar Association and a member of the legal education section. The accreditation group, representing several law schools and law offices in the nation, is charged with establishment of standards for recognition of law programs by the ABA.

## Miscellany

Teoman Ariman, associate professor of aerospace and mechanical engineering, presented an invited lecture at Ohio State University May 21 on "Blood Microrheology and Thermohemolysis."

Hafiz Atassi, associate professor of aerospace and mechanical engineering, was an invited speaker at the International Conference on Aeronautical Propulsion at NASA Lewis Research Center, Cleveland, Ohio May 13-16. He spoke on "Influence of Blade Loading on the Acoustical Response of a Cascade."

George F. Bishop, assistant professor of sociology and anthropology, presented a paper entitled "Liberal-Conservative Consistency in the American Mass Public: The Effect of Education," at the 30th annual conference of the American Association for Public Opinion Research in Itasca, Illinois, May 29-June 1.

John G. Borkowski, associate professor and chairman of the Department of Psychology, has been invited to serve on a panel charged by the American Psychological Association with drafting a position paper on the current status of mental retardation. He is also serving on a committee formulating a position paper for the National Association for Retarded Citizens on "Teaching Children How to Think".

Byung T. Cho and William P. Sexton, associate professors of management were voted the outstanding teachers in the MBA program by this year's graduating class. The awards were made at the diploma ceremony which was conducted in the auditorium of the Memorial Library prior to the University commencement exercises.

David G. Donovan, assistant director for administration of the University Libraries, served on a team of educators who studied the involvement of the University of the West Indies in the economic and social development of the Caribbean region for the Agency for International Development and the Inter-American Development Bank. (He prepared additional assessments of the present and future capabilities of the university libraries, a regional information network, learning resource centers, and audio-visual centers, and printing and reproduction facilities.)

John Houck, professor of management, addressed the "Decision Making for Executives" seminar at a banquet meeting in the Morris Inn on Tuesday, May 13. His topic was "Small Business and Themes from the Year 2000."

Nai-Chien Huang, associate professor of aerospace and mechanical engineering, presented a paper entitled "Theory of Extension of Elastic Continuous Filament Yarns" at the Fifth Canadian Congress of Applied Mechanics, May 26-30 at the University of New Brunswick, Fredericton, New Brunswick, Canada. He spoke on "Application of the Theory of Slender Curved Rods to the Analysis of Elastic Yarns," at the 21st Conference of Army Mathematicians in El Paso, Texas on May 14.

Robert L. Irvine, associate professor, and Thomas L. Theis, assistant professor, both in the Department of Civil Engineering, and Assistant Professors of Biology Quentin E. Ross and Richard Greene, presented a paper entitled "The Use of Fly Ash in Lake Restoration" at the Second Annual National Conference on Environmental Engineering Research, Development and Design, July 20-23 at the University of Florida in Gainesville. Irvine participated in directing presentations on "Batch Treatment of Industrial Wastes" and "Tertiary Treatment of Industrial Wastes and Lake Restoration, a Similarity in Approach" at the 30th Annual Purdue Industrial Waste Conference, May 6-8, at Purdue University in West Lafayette, Indiana. Theis co-directed a session on "Colloid Chemical Properties of of Chrome Hydroxides Applied to Metal Finishing Wastes" at the same conference.

James L. Massey, Freimann Professor of Electrical Engineering, presented a seminar, "Some Well-Known Coding Facts Which Aren't" for the Communications Satellite Corporation at the ComSat Laboratories in Clarksburg, Maryland, on May 28. He also lectured on "Convolutional Coding: Coding and Modulation" on June 9-13 as part of a Carl-Cranz-Gesellschaft short course in Oberpfaffenhofen, Germany, sponsored by the DFVLR (German space agency) Institute for Satellite Electronics.

Ken Milani, assistant professor of accountancy, addressed the general membership meeting of the Michigan Chapter of the National Association of Accountants March 18 on the topic, "LIFO -- Its Lures and Limitations."

John Santos, professor of psychology, addressed the annual meeting of the Rush County Association for Mental Health in Rushville, Indiana, in June on "The Neglected Mental Health Needs of the Elderly." On May 14 he lectured on "Dealing with Death Fears in Children" to the Head Start Staff of the South Bend Community School Corporation. He also served as a hearing panel member in behalf of the Indiana Commission on Aging and the Aged for the Public Hearing of the area agency plan for Indiana District 1 in Gary, Indiana on May 2.

Maurice Schwartz, professor of chemistry, delivered a lecture entitled "Toward an Accurate, Rigorous Valence-Electron Structure Theory" at the Argonne National Laboratory, Argonne, Illinois, on May 15.

James H. Seckinger, assistant professor of law, was teaching associate at the Court Practice Institute's National Trial Advocacy Trial Seminar in Chicago, April 19-26.

William P. Sexton, associate professor of management, delivered the keynote address, "Community Development in the Hospital," at the annual convention of the Texas Catholic Hospital Association, on May 17 in Houston.

John J. Uhran, Jr., associate professor of electrical engineering, presented a paper on "EKG Signal Analysis," at the Sixth Annual Pittsburgh Conference on Modeling and Simulation, in Pittsburgh, April 24-25.

Erhard M. Winkler, professor of earth sciences, read a paper on "Acid Rain and Natural Dust" at the International Symposium on Acid Rain and the Forest Ecosystem held May 12-15 in Columbus, Ohio.

James L. Wittenbach, assistant professor of accountancy, participated in a Seminar for Tax Educators held at the Ernst & Ernst Education Center in Cleveland, Ohio, May 5-7.

## Necrology

Rev. Walter R. Marks, C.S.C., 75, who served 35 years as a missionary in Bengal, India (now Bangladesh), died May 19 at the Boysville School of the Holy Cross Brothers in Clinton, Michigan, where he was chaplain. Father Marks studied at Holy Cross Seminary at Notre Dame and was ordained in 1933. He was involved in mission work until 1968 when he spent a year in residence at Holy Cross House, Notre Dame.

# office of advanced studies

## Special Notice

### Faculty Research Fund

The University Committee on Research and Sponsored Programs announces the awards made for 1974-75.

Profs. D. Chris Anderson and Donald W. Kline, Department of Psychology. Toward a Non-Human Model of Human Aging. \$2210.

Prof. John G. Duman, Department of Biology. Preliminary Study of the Environmental Physiology of pH Regulation in Fishes. \$2482.

Prof. Lloyd H. Ketchum, Jr., Department of Civil Engineering. Preliminary Laboratory Investigation to Determine the Feasibility of Low Lime Addition for Phosphate Removal. \$1375.

Prof. Howard P. Lanser, Department of Finance. A Determination of the Factors and Conditions Causing Corporate Deconglomerate Activity. \$1430.

Prof. Kenneth W. Milani, Department of Accountancy. Federal Income Tax Proposal. \$853.

Prof. Robert L. Irvine, Department of Civil Engineering. Use of Sequencing Batch Reactors for the Removal of Organics in the University of Notre Dame Sewage. \$1485.

Profs. David W. Morgan, John G. Duman, Richard W. Greene, and Quentin E. Ross, Department of Biology. Pilot Study of a Program to Monitor the Reestablishment of a Freshwater Marsh. \$2200.

Prof. Joseph J. Nahas, Department of Electrical Engineering. A Braille Recording System. \$1100.

Prof. Thomas L. Theis, Department of Civil Engineering. The Use of Metal-Bearing Industrial Wastes for the Precipitation of Phosphorus in Tertiary Treatment Systems. \$1507.

Profs. John J. Uhran, Jr. and William I. Davisson, Departments of Electrical Engineering and Economics. On Constructing a National Socio-Economic Model. \$2574.

Prof. John A. Weber, Department of Marketing. Proposal to Generate a Research Proposal Concerning the Development of a Computerized, Regularly-Updated Bibliographical Data Bank Covering Major Business Periodicals, Journals, Monographs and Books. \$580.

The chairman of the UCRSP Review Panel, Prof. David T. Link, noted that the panel did not receive as many applications as was anticipated.

## Notes for Principal Investigators

### HEW Certification Form for Protection of Human Subjects Form HEW 596

The U.S. Department of Health, Education, and Welfare has issued a revised certification form concerning protection of human subjects on grants and contracts. The form number is HEW 596 and is to be used for all proposals to HEW agencies, including the U.S. Office of Education, Public Health Service (National Institutes of Health), Social Rehabilitation Service, etc. The form is to be completed even if human subjects are not involved in the proposed project.

The following data should be used to complete the form:

Block No. 4.B  
DHEW Assurance Number - G1119  
Block No. 7

University of Notre Dame  
Notre Dame, Indiana 46556

Block No. 8  
Francis M. Kobayashi  
Assistant Vice President for Research  
and Sponsored Programs  
(219) 283-7378



## Computer Costs and Data Processing Costs

Principal investigators are hereby requested to separate data processing costs from the computer costs category in budgets for proposals. The computer costs category should be reserved for costs associated with computing time in the University's Computing Center. The data processing category should be used for purchase of services (other than computing time) from other areas of the University, such as the Social Service Training and Research Laboratory.

## Information Circulars

### National Aeronautics and Space Administration (NASA) Life Sciences Program in Space

No. FY75-83

As part of the space program for the 1980's, NASA is considering a series of manned laboratories equipped expressly for scientific investigations and launched into orbit aboard the Space Shuttle. Unlike past spacecraft, these "Spacelabs" can be staffed by scientists, engineers and technicians (men and/or women) who have received only minimal spaceflight training. As national research facilities, Spacelabs could be utilized by several hundred investigators in various disciplines to conduct research exploiting the unique environmental properties of spaceflight. One Spacelab is planned as a dedicated laboratory for Life Sciences Spacelab mission every six months during the decade of the 1980's.

Past research has shown that spaceflight has some effects on living organisms which cannot be duplicated in ground laboratories nor explained by current theories. Studying these effects will not only add to man's knowledge of spaceflight but will undoubtedly produce insights into life on earth.

Carried aboard a reusable Space Shuttle, the Life Sciences Spacelab remains in space for up to 30 days. While in space, as many as four scientists (depending on mission duration) conduct biological, biomedical and behavioral research using many "standard" laboratory instruments and procedures in an earth-type working environment. Consequently, Spacelab will provide the first opportunity to carry out a thorough experimental program in the Life Sciences in space under working conditions approximately those of ground-based laboratories. In addition, small, highly automated Life Sciences experiments can be performed on Spacelab and Space Shuttle missions dedicated to other disciplines (e.g., Astronomy, Material Sciences), and free-flying unmanned satellites may be launched from the Space Shuttle as Life Sciences laboratories.

In order to take maximum advantage of future research opportunities, NASA intends to involve a large cross section of the Life Sciences community in shaping scientific program objectives, in selecting spacecraft laboratory equipment, and in planning and execution of Flight Experiments.

As of this date, no missions have been scheduled and no Life Sciences Flight Experiments have been selected. Approximately 200 scientists could have the opportunity to serve as Principal Investigators on future Flight Experiments. Depending on specific Flight Experiment Requirements, some 50 of the Principal Investigators may perform research in space as Spacelab crewmembers (Payload Specialists) while the remainder would analyze data from the ground. In anticipation of the Spacelab, the initial phase of NASA's Life Sciences Program is to develop general research objectives and spacecraft laboratory capabilities which represent the desires of potential Principal Investigators. Since "Life Sciences" covers a myriad of scientific endeavors each with its own requirements, NASA is extending an invitation to interested scientists to suggest general topics for future research and to identify equipment which would be needed to carry out Life Sciences investigations in space. Research topics will be integrated into general objectives for the Life Sciences program and equipment needs will be used in assigning priorities to the acquisition of spacecraft laboratory instrumentation.

Responses to this invitation are due at the National Aeronautics and Space Administration, Washington, D.C. 20546, no later than August 15, 1975.

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

### Woodrow Wilson International Center for Scholars—Fellowships for 1975

No. FY75-84

#### Purpose:

Created by the United States Congress as the nation's official memorial to the late President Woodrow Wilson.

#### Scope:

The fellowship program is organized in three academic divisions:

1. The Division of Historical and Cultural Studies welcomes proposals in the fields of history, literature, philosophy, jurisprudence, religion, and other humanistic areas, including the creative arts.

2. The Division of Social and Political Studies accommodates research and writing in political science and international relations, sociology, anthropology, economics, psychology, and other disciplines.  
3. The third division, entitled Resources, Environment and Interdependence, supports research and writing from a wide variety of disciplinary and cultural perspectives, in availabilities, the uses of the seas, and other topics.

Eligibility:

Eligibility is limited to the post doctoral level.

Stipend:

It is the Center's policy to enable each fellow to meet, but not exceed, his or her income of the preceding year. Each fellow is required to take advantage of any leave, sabbatical, or other funding that may be available.

Duration:

From a minimum duration of four months, to one year; however, a limited number of longer term appointments are made.

Deadline:

The deadline in the fall of 1975 is October 1, and applicants will be notified in December.

Application forms:

Call the Center: (202) 381-6247, or write to: Woodrow Wilson International Center for Scholars  
Smithsonian Institution Building  
Washington, D.C. 20560

## National Science Foundation Research Applied to National Needs (RANN)

No. FY75-86

The National Science Foundation's Research Applied to National Needs (RANN) program focuses U.S. scientific and technical resources on selected problems of national importance for the purpose of contributing to and accelerating their solution. RANN serves as a bridge between basic research and the development, demonstration, and general utilization of research results by industry, state and local governments, and related federal mission agencies.

The RANN program supports research in both basic and applied areas that is relevant to national problems involving the public interest in accordance with the legislative authorization in the NSF Act as amended. Objectives of the program are to:

- \* Direct the knowledge and capabilities of the scientific community toward the solution of selected national problems or opportunities;

- \* Improve the return on the nation's investment in government-sponsored scientific research;
- \* Shorten the lead times between the discovery of relevant knowledge and its use in practical application;
- \* Provide experimental results, information and policy options to potential users;
- \* Indicate early warning on potential national problems and initiate research useful in avoiding or solving such problems.

In the fiscal year commencing July 1, 1975, RANN will concentrate its support of research in the following areas:

Energy

Energy Resources -- The technical feasibility of long-range novel development of solar, geothermal, and fossil fuel energy resources; the study and assessment of the social, economic, legal and environmental aspects of these developments.

Energy Conversion, Storage, and Transportation -- Developing the underlying scientific knowledge which will allow substantive improvements in the efficiencies of the processes by which energy is converted, stored, and used. A wide range of technologies are of interest, with the emphasis in each case on understanding the basic physical relations and processes involved.

Environment

Managing the Natural Environment -- Extending scientific knowledge of selected environmental threats which will allow more effective public policy decisions, through the support of systems studies and component research projects in environmental effects of energy, environmental aspects of trace contaminants, and regional environmental management.

Disasters and Natural Hazards -- Advancing the understanding of conditions that create or result from hazards such as climate change, hail damage, and earthquakes so that losses to life and property can be reduced including research in the social and economic impact of natural hazards and disasters.

Productivity

Public Sector Technology -- Development of selected advanced technologies having wide applicability to the public sector, and the development of information for decisionmakers which will allow the most widespread and cost-effective use of these technologies with particular interest in advanced urban technologies, excavation technology and instrumentation technology.

Public Policy and Economic Productivity -- Research on the management and improvement of government performance through the provision of efficiency and productivity incentives in making resource allocations with emphasis on productivity measurement,

service productivity and intergovernmental structure, regulation and economic productivity and problems of the post industrial economy.

Public Policy and Human Resources -- Investigate distribution and equity problems associated with changes in productivity and economic structure with emphasis on public policy and the disadvantaged, and consumer market policy.

#### Resources

Renewable Resources -- Investigating resources to increase production of proteins from non-conventional sources, and developing technologies for producing a greater proportion of food and other products.

Non-renewable Resources -- Options for using resources more efficiently, improving recycling systems, and reducing the impact or resource shortages.

#### Exploratory Research

Exploratory Research and Technological Opportunities -- Feasibility studies and test applications of potential scientific and technical breakthroughs derived from the research community to permit new technologies to reach intended users, including industry, more quickly.

#### Technology Assessment

Systematic exploration and evaluation of the social, economic, and environmental consequences of the introduction, extension, or modification of major technologies. Efforts will consider both the immediate effects of a technology and long-term costs, benefits, risks and opportunities associated with it.

#### Utilization

A complementary program to RANN which integrates the building of capacity in state and local governments to utilize science and technology, and to accelerate technology transfer, research utilization and investment in R&D in the economy, including that of RANN developed science and technology.

## National Science Foundation Student Science Training Program

No. FY75-87

Student Science Training (SST) is one of the three programs comprising the National Science Foundation's Student-Oriented Programs (SOP). It shares with other program elements the basic goal of providing talented students with science learning opportunities above and beyond those normally available in most formal science education programs in the nation's schools and colleges. A secondary goal of SST is that of increasing the variety of instructional modes and patterns in high schools by demonstrating to both students and faculties

the capacity of students to be motivated by a certain measure of independence in some of their studies and thus to accept greater responsibility for planning and carrying out their own learning activities.

A central mechanism for developing this feeling of connection between academic studies and the real world is to organize instruction around problems which a student can perceive as being significant, problems which are stated in ways which allow a young person to recognize and understand, from his own perspective, the nature and importance of those problems. To provide experiences beyond those normally available to students, the Foundation supports the active participation of students with college faculty in specially designed instruction and investigative work. In the various types of projects, the role of the faculty ranges from central and directive to advisory, but in all cases the projects should stress increasing independence and responsibility for the student.

Student Science Training is characterized by the following features:

- \* Involves instruction, research participation, or an appropriate blend of the two, through which highly talented secondary school students come into direct contact with college teachers, research scientists and/or engineers for an educational experience in science that goes beyond those normally available in high school or early college courses:

- \* Brings the instructional resources of universities, four-year colleges, and research organizations into the academic preparation of these talented students significantly earlier than the educational system ordinarily permits;

- \* Supports two broad categories of projects -- 1. Those designed for the educational development of high-ability students from secondary schools in which science instruction is, by national standards, excellent. 2. Those especially designed for students with limited educational opportunities who have demonstrated high potential, but in whose secondary schools the science training is deficient because of inadequate facilities or instruction. Students in this category may be located in the inner city or in isolated rural areas and may belong to minority groups or to other segments of the educationally disadvantaged population.

- \* Supports projects for either resident or commuting participants. Commuting projects may be conducted during the summer, or in available time periods during the academic year.

\* Is directed especially toward students who have completed the junior (but not the senior) year in high school.

\* Provides funds to defray operating costs plus subsistence and travel costs of those students whose families are unable to assume these expenses.

The closing date for receipt of proposals is October 10, 1975. For further information, contact the Office of Research and Sponsored Programs, Extension 7378.

## American Council of Learned Societies Fellowships and Grants Competitions to be Held in 1975-76

No. FY75-88

### ACLS Fellowships

For research in the humanities; programs with a predominantly humanistic emphasis in any of the social sciences will also be considered. Deadline for application, September 30, 1975.

### Study Fellowships

For young scholars in the humanities to enlarge their range of knowledge by study inside or outside the humanities in disciplines other than their present specialization. Social and natural scientists who wish to study a humanistic discipline are also invited to apply. Deadline: November 15, 1975.

The ACLS also offers the following fellowships and grants:

- \* Advanced Training in Chinese Studies, Deadline, December 1, 1975.
- \* Research on Chinese Civilization. Deadline, December 1, 1975.
- \* Grants-in-Aid, in support of significant humanistic research. Deadlines, September 30, 1975, and February 15, 1976.
- \* Grants for Soviet Studies. Deadline, December 31, 1975.
- \* Grants for East European Studies. For research in the humanities and social sciences relating to the cultures and populations of Albania, Bulgaria, Czechoslovakia, Hungary, Poland, Romania, Yugoslavia, East Germany since 1945, and modern Greece. Research should be problem oriented and of theoretical relevance in the substantive scholarly disciplines and may be comparative in nature. Support is also offered for research of conceptual and theoretical focus and manifest disciplinary relevance, empirically based on immigrant groups or communities from Eastern Europe. Deadline, December 31, 1975.
- \* Grants for Study of East European Languages. Deadline, February 1, 1976.

- \* Programs Administered by the International Research and Exchanges Board will include postdoctoral and pre-doctoral exchanges with Bulgaria, Czechoslovakia, East Germany, Hungary, Poland, Romania, the U.S.S.R., and Yugoslavia.
- \* Programs Administered by the Social Science Research Council will include grants for postdoctoral research in the humanities and social sciences relating to Africa, Contemporary and Republican China, Japan, Korea, Latin America and the Caribbean, the Near and Middle East and South Asia. Pre-Doctoral fellowships will include: Africa; East, South, and Southeast Asia; Latin America and the Caribbean; the Near and Middle East; and Western Europe.

For further information contact the Office of Advanced Studies, Extension 7378.

## National Endowment for the Arts Applications Deadline for Jazz/Folk/Ethnic Program

No. FY75-89

The National Endowment for the Arts announced a deadline of Oct. 1, 1975 for receipt of applications from individuals and organizations under its Fiscal 1976 Jazz/Folk/Ethnic Program. Grants will support activities taking place between June 1, 1976 and Jan. 31, 1977. The anticipated deadline for applications requesting support between Feb. 1, 1977 and Jan. 31, 1978 is June 15, 1976.

Applications will be accepted in the following categories:

Jazz, Category I. Non-matching fellowship grants to composers and arrangers of exceptional talent for creation of new works, completion of works in progress, and professional development. The program provisions are intended to support only those composers whose works retain a consistent basic idiomatic feeling related to the jazz style with which the composer's work is identified.

Jazz, Category II. Non-matching fellowship grants to enable jazz instrumentalists and singers of exceptional talent to advance and develop their careers as they see fit.

Jazz, Category III. Non-matching fellowship grants to enable young musicians of exceptional talent to study and/or tour with individual professional artists or ensembles for short-term concentrated instruction or experience.

Jazz, Category IV. Matching grants to organization for jazz presentations, educational programs, short-term residencies by jazz specialists, and carefully planned regional or national tours.

Folk/Ethnic, Category I. Matching grants to organizations for folk/ethnic musical presentations, such as community celebrations, regional or national festivals, etc.

Folk/Ethnic, Category II. Matching grants to organizations for projects designed to document, preserve, and disseminate living musical traditions.

Folk/Ethnic, Pilot Category. On a pilot basis, a limited number of modest non-matching grants will be available to individuals to accomplish the purposes outlined in Folk/Ethnic categories I and II.

Folk/Ethnic, Category III. Non-matching fellowship grants to enable individuals of exceptional talent to study with master traditional artists.

## Monthly Summary

### Awards Received

IN THE MONTH OF MAY, 1975

Department or Office	Principal	Short title	Sponsor	Dollars Months
AWARDS FOR RESEARCH				
Biology	Fuchs	Reproductive physiology of <i>Aedes</i> mosquitoes	Natl. Inst. Health	6,771 12
Electrical Eng.	Massey	Coordinated design coding, and modulation systems	Natl. Aero. Space Admin.	9,000 3.5
Chemistry	Basu	Metabolism, glycosphingolipids in animal cells	Natl. Inst. Health	38,939 12
Chemistry	Hayes	X-Ray photoelectron spectroscopy of heme compounds	Natl. Inst. Health	53,982 12
Microbiology-Lobund Lab.	Pollard	Development and maintenance of germfree animal colonies	Natl. Inst. Health	80,000 12
Metallurgical Eng.	Miller	Dry-low stress abrasive wear testing	Welding Res. Council	1,500 12
Aerospace Mech. Eng.	Atassi	Unsteady aerodynamic forces on highly cambered airfoils	U.S. Air Force	28,760 12
Aerospace Mech. Eng.	Daschbach, Link	Judicial statistics research	Judicial Study Comm. of Ind.	9,103 2
Chemistry	Castellino	Activation of plasminogen	Am. Heart Assoc.	13,200 12
Ambrosiana Collection	Gabriel	F. M. Folsom Ambrosiana collection	Kress Fdtn.	10,000 5
Chemistry	Martinez-Carrion	Probes of molecular function in pyridoxal enzymes	Natl. Inst. Health	11,432 12
Biology	Morgan	Effect of NIPSCO power station on salmonid migrations	NIPSCO	98,369 12
Electrical Eng.	Nahas	Studies of microwave-to-DC energy conversion	Natl. Aero. Space Admin.	34,301 12
Chemical Eng.	Kohn, Luks	Solubility of hydrocarbons in cryogenic NGL and LNG	Gas Proc. Assocn.	18,365 9
AWARDS FOR FACILITIES AND EQUIPMENT				
Aerospace Mech. Eng.	Mueller, Lloyd	Laser doppler anemometer	Natl. Sci. Fdtn.	18,000 12
Biology	Greene	Instructional scientific equipment program - Biology	Natl. Sci. Fdtn.	17,800 24
Physics	Rey	Instructional scientific equipment program - Physics	Natl. Sci. Fdtn.	8,100 24
AWARDS FOR EDUCATIONAL PROGRAMS				
Law	Link	Sports and entertainment law forum	Mr. Robert E. Short	300 3 days
Electrical Eng.	Gajda	Increase women in engineering	Gen. Elect. Fdtn.	1,500 4
Theology	Egan	Catholic committee on urban ministry	AHS Fdtn.	15,000 12
Center Study Man	Liu	Graduate training in social research	Natl. Inst. Health	47,412 12
Metallurgical Eng.	Kuczynski	Conference on sintering and related phenomena	Energy Res. Devel. Admin.	2,700 7.5

# Proposals Submitted

IN THE MONTH OF MAY, 1975

Department or Office	Principal	Short title	Sponsor	Dollars Months
PROPOSALS FOR RESEARCH				
Center Civil Rights	Glickstein	Civil rights data center	(Private Fdn.)	93,005 12
Microbiology	Pollard	Antineoplastic chemotherapy in decontaminated animals	Natl. Inst. Health	16,000 12
Physics	Browne, Chagnon, Darden, Funk, Mihelich	Nuclear structure research	Natl. Sci. Fdn.	1,578,944 36
Biology	Morgan	Effect of NIPSCO power station in salmonid migrations	NIPSCO	300,000 36
Aerospace Mech. Eng.	Yang	Development of an ozone genera- tion device	Telecomm. Ind., Inc.	5,987 1½
Modern Class. Lang.	Yu, Schaum	Teaching and learning Chinese as a second language	U.S. Off. Educ.	12,746 3
Chemistry	Castellino	Plasminogen and plasmin: Structure and function	Natl. Inst. Health	22,200 12
Electrical Eng.	Sain, Massey	Unified study of coding and control theories	Natl. Sci. Fdn.	84,808 24
Electrical Eng.	Gajda	Investigation of composite insulators	Abcom, Inc.	2,208 3
Physics	Poirier, Rey	Elementary particle physics	Natl. Sci. Fdn.	18,668 4
Microbiology- Lobund Lab.	Wostmann, Webb, Pleasants	Role of enteric antigen in age- related immune changes	Natl. Inst. Health	134,729 12
Microbiology- Lobund Lab.	Pollard	Metastasis of a neoplastic cells	Marion Cty. Cancer Soc.	6,500 12
Electrical Eng.	Cohn	Improved digitization procedures for electrocardiograms	U.S. Air Force	24,920 12
Chemistry	Martinez- Carrion	Probes of structure and mechan- isms of heart enzymes	Natl. Inst. Health	25,000 12
Aerospace Mech. Eng.	Mueller, Lloyd, MacDonell	Prosthetic heart valve thrombus formation and erythrocyte	Natl. Sci. Fdn.	116,534 24
Psychology	Anderson, Kline	Nonhuman model of lifespan behavioral change	Natl. Inst. Health	47,777 12
PROPOSALS FOR FACILITIES AND EQUIPMENT				
Modern Class. Lang.	Klawiter	The Polemics of Erasmus of Rot- terdam and Ulrich Von Hutten	(Private Fdn.)	13,000 --
PROPOSALS FOR SERVICE PROGRAMS				
Center Cont. Educ.	Bergin, Weber	The moral aspirations of Americans	Indiana Arts Comm.	56,800 5 days
Center. Cont. Educ.	Bergin, Weber	The moral aspirations of Americans	Ind. Comm. Human.	81,978 5 days

# Summary of Awards Received and Proposals Submitted

IN THE MONTH OF MAY, 1975

## AWARDS RECEIVED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	11	\$ 267,852	3	\$ 145,870	14	\$ 413,722
Facilities and Equipment	-	---	3	43,900	3	43,900
Educational Programs	2	62,412	3	4,500	5	66,912
Service Programs	-	---	-	---	-	---
Total	13	\$ 330,264	9	\$ 194,270	22	\$ 524,534

## PROPOSALS SUBMITTED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	6	\$1,822,625	10	\$ 667,401	16	\$2,490,026
Facilities and Equipment	-	---	1	13,000	1	13,000
Educational Programs	-	---	-	---	-	---
Service Programs	-	---	2	138,778	2	138,778
Total	6	\$1,822,625	13	\$ 819,179	19	\$2,641,804

## Closing Dates for Selected Sponsored Programs

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

Agency	Programs	Application Closing Dates	
Health Services Administration	Research in Maternal and Child Health and Crippled Children's Services	August	1, 1975
National Endowment for the Humanities	Youthgrants in the Humanities	August	1, 1975
National Science Foundation	Oceanography Proposals	August	15, 1975

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# documentation

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## Farewell Address Honoring Dean Frederick J. Crosson

By Thomas Stritch, Professor of American Studies  
Acting Editor of The Review of Politics

May 6, 1975

It is easy to see why I was fingered for this assignment. Although I am only a decade plus older than our guest of honor, there is a general feeling around the place that I came over with Sorin. I am supposed to be one with the trees on the quad and the tower on the Church, a link between the past and the present, the classic old bore, like Tennyson's leech gatherer, or the garrulous old narrator who mars Fellini's films. I am the man who heard William Butler Yeats and Gilbert Keith Chesterton lecture in Washington Hall, the man who chatted with Mr. Rockne while we were both cooling our heels waiting to see Father Charles O'Donnell (and it may be worth noting that Father O'Donnell saw me first, but with a brevity as succinct as it was definite). Catch me, or any of us old codgers in a reminiscent mood and we'll give you the whole story, filled to the last word with inaccuracies and distortions. As I used to say of some of these old gentlemen I knew in my youth, you knew that 50 per cent of what you were hearing was mistaken, but the trouble was you didn't know which half.

Well, so be it. I do think we are too prone around here to forget our past, even to be perhaps somewhat ashamed of it. We are a little uneasy at being styled Roman Catholics--we'd rather be German Catholics, or we yearn secretly for the sonorous dignities of the Book of Common Prayer. We'd like to be just a little oriental, to long, as Mr. Gilbert put it, for "all one sees that's Japanese." We are impressed by what's done at Harvard or Stanford rather than by what we have done. We hail Marcuse and Kirkegaard and Freud but not Aquinas, no never, never Aquinas. So, let me, on this happy and sad occasion, when we honor a man who does know and love the Notre Dame tradition, who has great feeling for the past along with unshakeable hope for the future, a man who actually believes in God as well as science and is on speaking terms with both. A real man, one who is even married, to a lady whose charm matches his own. And let us honor him by turning a bit to the past.

During one of our recurring plagues called "revising the curriculum"--the rather virulent one occurring around 1950, postWar but preSheedy -- Frank O'Malley said to me that what he disliked about the discussions was their underlying assumption that the University had been founded in 1948. I am as suspicious as Frank of the newer view that we were founded in 1970. No, we were founded in 1842 by Edward Frederick Sorin, and while I should like to lay to rest once and for all the canard that I came over with him, still it is true that I have seen a dean or so in my time and have come to know a little of their characteriology. Indeed, I am thinking of doing a handbook on the subject, one to go along with how to tell wildflowers and stars. Everyone should be prepared to spot a dean these days of the multi-dean epoch, when whole choirs of them come and go in beauteous files. We have already got past the want-ad stage: "Midwest university, seeks livewire hotshot dean. No references." I don't like to contemplate the future of this sort of thing, so after the protective reflexes of my kind, let's look back.

Fred Crosson is the fifth Dean of the College of Arts and Letters in the 55 years that comprise modern Notre Dame.



Why do I say that modern Notre Dame is 55 years old, almost splitting the difference between Fred's age and my own (and cheating a little as usual)? I say it because modern Notre Dame is mainly, though by no means solely, the work of one man. That man was James A. Burns. He had a brief tenure of office as president of Notre Dame, from 1919 to 1922. But during that time he reorganized the place from head to toe. Part of that reorganization was the creation of the modern College of Arts and Letters. It is hard to realize that before this all the courses were sort of tumbled about in one huge basket, and what a lot of them there were -- nearly 200 credits required for graduation and courses giving fractional credits --  $2\frac{3}{4}$  for Choir,  $1\frac{1}{8}$  for Chemistry Lab. And there were no courses in religion, none at all required for undergraduates aiming to be laymen. It was a mess, and the man Father Burns chose to clean it up was Father Charles Miltner. Father Miltner did not become dean until 1924, but he headed the curriculum reform from the start in 1921. Not for about ten years was relative stability secured, with Miltner and such other staunch Burns henchmen as Father Leonard Carrico and George Shuster battling every inch of the way.

I knew Father Burns very slightly, but I knew Father Miltner very well indeed. He was a formidable fellow, of massive dignity and strength, granitic and forbidding. Father Miltner was a real leader. He forced through the Burns program pretty ruthlessly. Fred told me once that he spent more than half his time as dean explaining, soothing, suggesting, trying to find the compromise that people would go along with. Father Miltner would have exploded in that curiously high pitched voice of his and told everybody what to do and if they didn't want to do it where to go, all in ten minutes or so. I remember when he divorced the Department of Politics from the Department of Economics, the then-chairman of politics, Father William Bolger, first heard about it at a general faculty meeting where it was announced. He made an ironic little speech, from which I can still recall one poignant sentence: "I don't say I should have been told. I merely say that it would have been NICE if I had been told." Fred would have had to tell him, retell him, massage him, program, manage and hypnotize him. Father Miltner saw no evidence that the faculty could manage itself and acted accordingly. Probably Fred shares his view, but can't act accordingly. Yet I must say I find Fred's modes of administration more attractive than Miltner's. I said earlier that we are prone to forget our past. True. But when we do remember it we are equally prone to romanticize it. The great fault of Miltner's time was authoritarianism, just as the great fault of our own is sentimentality. What an admirable course between the two Fred Crosson has steered!

After Miltner there came a long interregnum caused by World War II. Two admirable persons held the title of dean, Father Frank Boland and Father Frank Cavanaugh; but the office itself obviously didn't amount to much, no fault of theirs. First the armed services, then the veterans dictated the tone of the University. I have lived through two unnatural periods in the history of the University. The first, though unnatural, was the happiest period of my teaching life, that teaching veterans between 1946 and 1952. The veterans didn't need much by way of teacher or dean. Their maturity and sense of direction carried us all along. No president, not even Burns, changed the University as much as they did; they made study respectable for the average as well as the superior student, and, through their wives and family life, they gave us the first real experience of the leaven of women in our academia.

The second unnatural period began in 1962 and, except for the recent strike at Brown, ended in 1970. I believe, along with Pat Moynihan, that the root cause of the student unrest of that period was simply the unnatural bulge of the population profile at their young age. There were simply too many kids, too many for the system of clueing them into the ways of the tribe, which is what education basically is. I ought to add that I found this personally an unhappy period as teacher and administrator, but the fact is that I did not. Oh, there were trials, but on the whole I managed to avoid walking over the prone bodies star-scattered on the floor of the Administration Building. I say this because I feel that Fred Crosson felt something of the same thing. He came in as dean at the end of this difficult period, and survived handsomely by managing sensibly, without rod or code, finding his way through the intelligent accommodation, sensible compromise, and patient tact which accompanies all that he does.

In this way he finished the task so well begun by his predecessor, another dean of long tenure. That was Father Charles Sheedy, whom I am very happy indeed to see here tonight. His tenure was nearly as long as Father Miltner's, and there are other similarities. The only name fit to stand along side Burns' in Notre Dame's modern presidential history is the name of Theodore M. Hesburgh, and just as Miltner was Burns' right hand man, so Sheedy rejoiced to be Hesburgh's. They made, I am happy to say, a great team, and with the help of very many here in this room and others, some of whom are sleeping, accomplished much. Father Thomas McAvoy called the Burns era a revolution. The Hesburgh era has been no less. There are many reasons why Notre Dame's academic reputation has been enormously enhanced in

the last 20 years. The principal one is Father Hesburgh. I am very proud indeed to say that a very important one is The Review of Politics. But still more important are the character of the deans we have been reviewing this evening and the faculty they have recruited. Father Charles Miltner was a man of splendid intelligence and devoted to high standards. So is Father Charles Sheedy. So is our first lay dean, Fred Crosson. Actually, these are what matter most in a dean. I have known all these deans personally -- indeed, I have served under them all. What good luck I have had! Think of the people I've worked for -- the elegant Father Carrico, the witty Father MacDonald, the adorable Father Leo L. Ward, the cultivated Father Soleta, John and Frank Cavanaugh, Hesburgh, Kenna, Sheedy, and now Crosson and Weber. What great good fortune! Every name on that list speaks to me at least of a cultivation of mind and virtue, goodness of heart and sweetness of disposition. And what a wonderful history it has been that I've reviewed, as indeed it should be. The history of a University ought to be the happiest of chronicles. The little story I have told tonight has been to me just that. I shall continue to be an old bore, telling all who'll listen about Burns and Miltner, and about Sheedy, Hesburgh and Crosson.

I've made something this evening out of pairs. There was the pair of Burns and Miltner, and then the pair of Hesburgh and Sheedy. Fred Crosson was the handsome result of this last pair.

Now let me draw your attention to another pair. During its nearly forty years of existence The Review of Politics has had only two editors, Waldemar Gurian, the founding editor, and M.A. Fitzsimons, who held the chair from 1955 to 1973. Since then I've had the honor of conducting, as acting editor, the course of this distinguished journal.

To succeed this marvelous pair is an honor and a responsibility. I am proud to announce that Fred Crosson has consented to enhance the honor and embrace the responsibility. He will take over his new post as editor of The Review of Politics in the fall of 1976.

## Erratum

The minutes of the 165th Meeting of the Graduate Council (April 30, 1975) as published in N.D. Report 18, should be changed in the following instances:

Roger Bretthauer should replace Robert Bretthauer in Paragraph 3.

The phrase "graduate program innovations as envisaged in the modern language proposal" should be added to Part II, Section 2, so that the paragraph reads: "Professor Schaum presented an addendum to his original proposal explaining that a drastic reduction of enrollments in many universities' graduate language programs is expected to reduce the current over-supply of language doctorates within the next five to seven years. He saw in this current surplus a sobering fact which calls rather for caution and restraint than abandonment of such soundly conceived and fiscally viable graduate program innovations as envisaged in the modern language proposal."

# Financial Aid for Undergraduate Students, 1973-74 and 1974-75

Type of Aid Provided	Academic year 1973-74 Summary			Academic year 1974-75 Summary		
	No. of Students	Average Award	Total Amount	No. of Students	Average Award	Total Amount
SCHOLARSHIPS-UNIVERSITY ADMINISTERED						
From Endowed Funds of University	665	993	660,364	669	1,067	713,613
From Current Contributions	189	1,079	203,908	180	1,108	199,441
Total	854	1,012	864,272	849	1,075	913,054
OUTSIDE SCHOLARSHIPS						
State Scholarships Received	420	1,051	441,551	458	1,174	537,711
Brought to University-Vari-ous	365	817	298,046	393	866	340,451
Total	785	942	739,597	851	1,032	878,162
Total Regular Scholarships	1,639	979	1,603,869	1,700	1,054	1,791,216
ROTC AWARDS						
Air Force	64	2,576	164,854	57	2,701	153,936
Army	97	2,635	255,591	102	2,772	282,750
Navy	172	2,624	451,350	163	2,676	436,224
Total	333	2,618	871,795	322	2,711	872,910
TOTAL ALL SCHOLARSHIPS	1,972	1,255	2,475,664	2,022	1,318	2,664,126
GRANTS-IN-AID, REMISSIONS, ETC.	420	2,770	1,163,501	449	2,905	1,232,774
UNIVERSITY PART-TIME EMPLOYMENT	1,165	650	772,364	1,321	602	794,691
TOTAL	3,557	1,240	4,411,529	3,792	1,237	4,691,591
FEDERAL ASSISTANCE PROGRAMS						
National Direct Student Loans	760	690	524,650	731	822	600,525
Basic Educational Opportunity Grant	47	213	10,009	155	575	89,153
Supplemental Opportunity Grants	134	918	123,075	111	850	94,400
College Work-Study (Federal %)	52	1,541	64,553	52	1,059	44,073
Total	993	727	722,287	1,049	789	828,151
OTHER LOAN ASSISTANCE						
USAF-Institutional Guar. Loans	1	500	500	-0-	-0-	-0-
Guaranteed Loans	1,046	1,478	1,545,490	977	1,582	1,545,617
Various Other Loans	78	1,422	110,920	122	1,541	188,020
Total	1,125	1,473	1,656,910	649	1,577	1,733,637
GRAND TOTALS	5,675	1,197	6,790,726	5,940	1,221	7,253,379
Unduplicated no. of Students Aided	3,927			4,108		
Unduplicated Average Aid Provided		1,729			1,766	
Total Undergraduate Enrollment	6,796			6,820		
Percent of Undergraduates Aided		57.8%			60.2%	

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