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COLLECTION

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January 11, 1974

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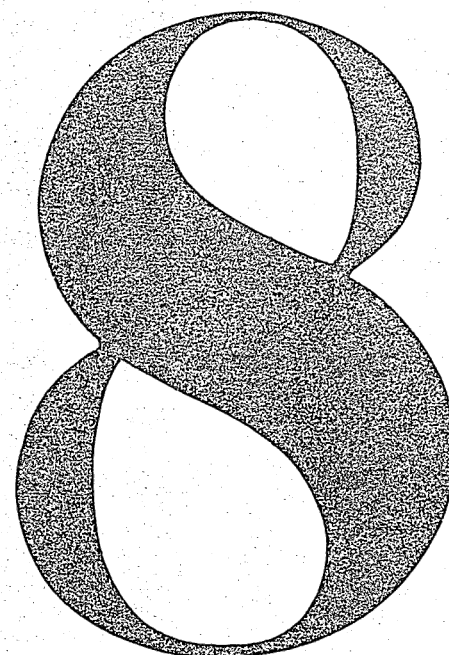
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the university

Report of the Committee on University Priorities

A Committee on University Priorities, formed 15 months ago to study future directions of the institution, has submitted its report to Rev. Theodore M. Hesburgh, C.S.C., president of the University.

Among its highest priorities, the Committee lists continuance of the University's commitment to freedom of inquiry and thought, a faculty and student affairs staff among whom committed Catholics predominate, and the highest priority for endowment in the allocation of unrestricted income.

The 16,000-word report also calls for increased emphasis on the improvement of teaching; more support for a library collection endangered by inflation; an emphasis on quality rather than quantity in the enrollment of graduate and professional programs, and the elimination of over-crowding in the residence halls, as well as study of how the halls might play more of an explicit educational role.

Here is a summary of the report's major chapters:

Catholic Character--The report strongly reaffirms the religious character of the University, noting that its "highest and also its most distinctive priority is to understand and to adhere to its evolving Catholic character. To survive without its unique place in the minds of believers, and without its Catholic witness in the larger pluralistic society, would not be to survive as Notre Dame." While acknowledging the contribution of those scholars of other religious faiths or of none who "abide here because they lead lives of inquiry which include a sensitivity to and respect for the commitment to investigate the moral realm," the committee urges that those concerned with faculty recruitment "exercise care to attract and appoint from the most competent teachers, scholars and scientists available those who are articulate believers." The report also recommends "that appointments to the faculty and staff continue to be offered by preference to competent members of the Congregation of Holy Cross, whose contribution to the University is a special guarantee of its Catholic character." (The Congregation, which founded the University in

1842, transferred governance to a predominately lay board of trustees in 1967.)

Finances--Against a background of higher education's costs rising faster than its income, the report notes favorably Notre Dame's recent success in eliminating budget deficits, but it warns that, because of cut-backs in federal grants and the declining percentage of operating income met by tuition increases, endowment growth is imperative for survival. The report predicts an end to the massive construction which has characterized the last two decades on campus and favors routing all unrestricted funds into endowment.

Enrollment--Stabilization of undergraduate enrollment at the present level of 6,600 is recommended, and greater enrollment selectivity is advocated for advanced students. The report calls for special efforts to safeguard the enrollment level of the two smaller undergraduate colleges, Engineering and Science, and to increase the proportion of women and members of disadvantaged ethnic groups in the student population. Continued cooperative programs with neighboring Saint Mary's College, including the student exchange program begun in 1965, are recommended. The report points out that if Notre Dame's undergraduate female enrollment increases to 1,500 by 1976 and the co-exchange program with Saint Mary's continues, the combined population of women on both campuses will be close to 3,000, which approximates the 3:5 national ratio of women to men in universities. "Any further increment in the enrollment of women will then be determined in the light of several variables, among them residence capacity, the volume of applications, relative enrollment in specific colleges and the extent of cooperation with Saint Mary's," the report asserts.

Residentiality--The report notes that this traditional strength of Notre Dame is deficient, with more than one-fifth of the undergraduate student body now living off-campus, but concedes that "large outlays of money" would be needed to provide new residence halls. It urges an end to present overcrowding in some residence halls as well as exploration of ways in which educational programs can be established in the halls under the leadership of the rectors with the assistance of the faculty and residence hall staffs.

Academic Disciplines--The report stresses interdisciplinary collaboration in curriculum, teaching and research. It does not single out programs which

might be discontinued, but offers guidelines for such review and evaluation by already existing academic and administrative bodies. It asks for more sensitivity toward international considerations--especially Third World countries--in planning courses of study and endorses internships and outside-the-classroom experiences as adjuncts to more familiar learning patterns. While new programs which meld traditional academic fields into interdisciplinary courses of study are encouraged, the overall tone of the report is on "consolidation of our known successes" rather than on new educational programs.

Teaching and Research--An emphasis on teaching, both in developing and evaluating faculty and in training graduate students, is evident in the report. The importance of research, especially as a requisite for a university (as opposed to a college), is also underlined, with stress on the importance of faculty initiative in seeking subvention of research in a day when outside sources of support are dwindling.

Advanced Studies--The high cost of post-baccalaureate studies "can be justified by the quality of faculty they attract and develop and by the new levels of understanding attained in research and scholarship," the report says. In a time when cutbacks in government grants have crimped advanced studies, Notre Dame is in a comparatively good position, according to the report, since it has not been as dependent as many universities on outside subsidies. However, the level of its basic stipend to graduate students is lagging as pressure grows on internal resources. Further emphasis will be on improvement of quality, both in enrollment and in academic programs. The report's "most urgent advice" is for periodic reviews of advanced studies programs by panels drawn from outside the University. These reviews would follow departmental self-studies. Development of a 10-year plan for the Summer Session, where enrollment has stabilized after decreasing during the last decade and where the trend is toward non-degree continuing education programs, is also recommended.

Library--Inflation has crippled the purchasing power of the University's libraries to the point where membership among the 84 academic libraries belonging to the Association of Research Libraries is threatened, according to the committee. The report urges an increase in the Library's budget and the establishment of a supplemental endowment specifically restricted to the purchase of books, periodicals and related learning materials.

Auxiliary Enterprises--The Committee voted to establish itself later as a task force to study the nonacademic endeavors of the University, such as the Athletic and Convocation Center and the Michiana Telecasting Corporation, in order "to make recommendations concerning their propriety, their continuance or discontinuance, and the possibility of starting new enterprises." Intercollegiate athletics receives endorsement in the report, with a strong reminder that Notre Dame is "in a unique position to be a leader in the ethics of organized sport."

Computing Center--"We have found a general uneasiness and concern for the total cost of all computing of campus, for the proper configuration and capacity of machines in relation to instructional, research and administrative needs, and, not least, for the appar-

ently unplanned and uncontrolled growth of computer use," the report states. It recommends a temporary committee of outside consultants to review and assess these areas and also calls for a committee "fully representative of the University community" to assist the executive board in the supervision of the Computing Center.

Notre Dame Press--The report advocates a five-year probationary period for the University's scholarly publishing endeavor, during which time an editorial board would be charged with "establishing a specific editorial policy to enhance quality of its publications, studying ways of cutting costs, and evaluating continually Press publications by the standard of their reception on the academic scene."

Father Hesburgh told the committee he would formally present its report to the University's trustees at their May meeting. Meanwhile, he solicited comments for the benefit of the trustees discussion from some 80,000 faculty, administration, students, alumni and friends of the University who received the report in the December issue of Notre Dame Magazine.

The 14-member committee, chaired by Rev. James T. Burtchaell, C.S.C., provost of the University, published four task force reports on major areas of University life in addition to meeting in plenary session 30 times. Other committee members are Howard Bathon, senior in Arts and Letters and chemical engineering; Rev. David Burrell, C.S.C., associate professor of philosophy and theology; Dr. James Daschbach, associate professor of aerospace and mechanical engineering; Rev. James Flanigan, C.S.C., associate vice president for student affairs; Dr. James Frick, vice president for public relations and development; Dr. Yusaku Furuhashi, professor of marketing management; Dr. Robert Gordon, vice president for advanced studies; Sister Madonna Kolbenschlag, H.M., assistant professor of American studies; Rev. Ernan McMullin, professor of philosophy; Dr. O. Timothy O'Meara, professor of mathematics; Frank Palopoli, graduate student in government and international studies; Dr. Thomas Shaffer, Dean of the Law School, and Dr. Marshall Smelser, professor of history.

Sophomore Literary Festival

Pulitzer and National Book Award winning authors, as well as candidates for major writing honors, will participate in the week-long Sophomore Literary Festival on campus Feb. 10-16. The event has attracted noted writers to the informal discussions since its beginning in 1967.

One of the highlights of this year's festival will be a tribute to W.H. Auden, who died a few days after accepting a student invitation to spend a week on campus. Two friends, Poets John Hollander and Stephen Spender, will participate in the memorial.

An acknowledged candidate for this year's Nobel Prize in literature, Isaac Bashevis Singer, will be another guest. Also scheduled to attend is Pulitzer Prize winning Jason Miller, author of "That Championship Season" and an actor in "The Exorcist."

Joyce Carol Oates of the University of Windsor,

winner of the 1970 National Book Award for the historical novel, "Them," responded to the festival invitation by announcing plans to explore humanistic psychology in her sessions with students.

Another festival guest, Bruce Jay Friedman, whose literary talents range from fiction to drama, is planning a presentation on the problems of multimedia presentation.

Dr. Samuel J. Hazo, director of the International Poetry Forum at Pittsburgh's Carnegie Library and a Notre Dame alumnus, also will participate in the festival. He is a nominee for both the Pulitzer and National Book Awards for his collection of poems, "The Quiet Wars."

Contemporary poet Michael McClure of San Francisco and Robert Creeley, poet and fictionist at the University of Buffalo, have also consented to participate in the 1974 festival.

Visiting authors live on the campus during the week and meet informally with students. Each gives at least one public talk or presentation in the Memorial Library Auditorium. Guests are encouraged to explore themes and styles as expressed in their literary works.

Civil Rights conference

The newly formed Notre Dame Civil Rights Center will sponsor a civil rights conference in the spring of 1974, according to Howard Glickstein, director of the Center. The conference will coincide with the third annual Civil Rights Lectures, sponsored by the Notre Dame Law School.

Plans for the conference were laid at the recent meeting on campus of the Center's advisory council, composed of nationally prominent leaders in the civil rights field. "The Center hopes to bring together an eminent group of both scholars and practitioners to consider the future directions of the civil rights struggle, particularly in the areas of employment, education and housing," explained Glickstein, who is former staff director of the U.S. Commission on Civil Rights. "We will follow a 'think-tank' approach in which the participants will prepare substantial papers in advance to be discussed at the conference," he added. Conference papers, proceedings and the Civil Rights lectures will be published, and the meeting is envisioned as an annual event.

"The Learning Society"

A study on continuing education and the future, conducted through the Center for Continuing Education with the support of the W.K. Kellogg Foundation, has recommended that the Congress enact a universal bill of educational rights guaranteeing every citizen access to the widest possible educational opportunities.

The study's recently published report, titled "The Learning Society," noted that society's changing nature requires people to gain new skills and intellectual orientations through their lives. It also urged

promotion of lifelong learning through educational tax deductions, tax credits or released time from employment, and called for higher education to help solve current social and environmental problems and increase services for disadvantaged groups. Colleges and universities were encouraged to develop educational materials and programs in citizenship and consumer affairs for wide public use.

Resulting from a national conference held at Notre Dame in January, 1971, the study, under the overall direction of Dr. Thomas P. Bergin, Notre Dame dean of continuing education, was begun early in 1972. Task forces were formed to examine continuing education's relationship to social responsibility, public affairs, the university, and the professions and new knowledge.

The task forces reviewed developments in their respective areas through meetings, preparation of position papers, and public hearings. Chairmen of the task forces included Elias Blake, Jr., president of the Institute for Services to Education; U.S. Representative John Brademas; Howard R. Neville, executive vice president for administration, University of Nebraska, and Alexander M. Schmidt, commissioner of the U.S. Food and Drug Administration. The work of the task forces was guided by a steering committee chaired by Rev. Theodore M. Hesburgh, C.S.C., Notre Dame president.

David Nichols served as task force director and synthesized the four studies into the final report, which is available from the University's Center for Continuing Education, Notre Dame, Indiana 46556.

Art Gallery accreditation

The University of Notre Dame Art Gallery has been accredited by the American Association of Museums (AAM), joining 283 of the nation's foremost museums who have successfully applied since accreditation procedures were adopted in 1970.

"Accreditation is a high point in the progress of the Gallery," commented Rev. Anthony J. Lauck, C.S.C., gallery director.

The visiting accreditation team consisted of Norman A. Geske, director of the University of Nebraska's Museum of Art, and Gustave von Groschwitz, assistant director of the State University of Iowa's Museum of Art. For the accreditation committee's report, see Documentation.

Kopernik Association gift

A gift of \$300 from the Kopernik Association of St. Joseph County, Ind., will be used by Memorial Library officials toward the purchase of a collection of Nicolaus Copernicus works now being published in Germany.

Notre Dame is currently concluding a year-long observance of the 500th anniversary of the birth of the Polish priest-scientist who postulated the theory that the sun, not the earth, was the center of the solar system. Symposiums and exhibits on the campus were coordinated with a group of South Bend scholars who assisted in the birthday observance.

The 10-volume "Gesamtausgabe" of Copernicus, a collection of his theories, is being edited by H.M. Nobis, an English scholar. The first volume is reportedly ready for distribution.

Dr. Michael Crowe, a professor in the General Program of Liberal Studies at Notre Dame, directed the study group selecting the Copernicus materials for purchase. The gift was announced by Dr. John A. Kromkowski, assistant professor of government and international studies, presently serving as president of the Kopernik Association. Additional cash gifts have been forwarded to the South Bend Public Library and Indiana University at South Bend.

faculty notes

Non-university appointments

Dr. Thomas P. Bergin, dean, and Richard A. Emge, conference coordinator of the Center for Continuing Education, have been named to the board of regents of the Chamber of Commerce of the United States' Institute for Organization Management.

Frank G. Kelly, director of deferred giving, has been appointed to the Committee on Taxation and Philanthropy by officials of the American College Public Relations Association.

Dr. Francis M. Kobayshi, assistant vice president for research and sponsored programs, has been named to the newly-formed Indiana Science Advisory Committee.

R. Brian Walsh, director of the computing center, has been elected to the board of trustees of the Interuniversity Communications Council (EDUCOM) to serve a two year term.

Miscellany

Dr. Teoman Ariman, associate professor of aerospace and mechanical engineering, presented two papers at the 10th Anniversary meeting of the Society of Engineering Science, Raleigh, N.C., Nov. 5-7. The papers were entitled "A Microcontinuum Theory of Blood Rheology," and "Dynamic Analysis of Elastic Plates with Circular Holes."

Dr. William E. Biles, assistant professor of aerospace and mechanical engineering, presented a paper entitled "The Industrial Engineer in Environmental Information Systems," at the First Annual Systems Engineering Conference sponsored by the American Institute of Industrial Engineers in New York, Nov. 28-30.

Dr. Howard A. Blackstead, assistant professor of physics, delivered a paper entitled "Magnetoelectric Waves in Gadolinium Films" at the conference of the Physics of Rare-Earth Metals in Elsinore, Denmark, Aug. 29 - Sept. 1. The conference was sponsored by the Danish Atomic Energy Commission, the European Physical Society and the National Science Foundation. Blackstead was awarded a travel grant to attend the conference.

Canon Astrik L. Gabriel, director of the Medieval Institute, delivered the "Presidential Address" at the 54th annual meeting of the American Catholic Historical Association December 28-30 in San Francisco. The address was entitled "The Ideal Professor in Medieval University Regulations."

Dr. James P. Dougherty, associate professor of English, gave a slide-illustrated lecture on the aesthetics of the original design for Washington, D.C., at the Ohio-Indiana regional meeting of the American Studies Association, Nov. 10, at Ohio State University.

Dr. Alan Huckleberry, assistant professor of mathematics, spoke before the Indiana State Teachers' Association Regional Meeting in Muncie, Ind., on Nov. 3. The title of his address was "Why New Math?" He also presented a colloquia at the University of Montreal, Montreal, Canada. On Dec. 3 his address was entitled: "Levi Convexity on Complex Manifolds," and on Dec. 4 "Fields of Meromorphic Functions on Complex Manifolds."

Dr. Lawrence H.N. Lee, professor of aerospace and mechanical engineering, recently attended a board meeting of the Control Group of the Stability Committee of Engineering Mechanics Division and the National Meeting of the ASCE in New York, Oct. 31 - Nov. 1. He also presented at the 10th Anniversary meeting of the Society of Engineering Science, Raleigh, N.C., Nov. 5-7 entitled "Inelastic Stability of Shells."

Dr. John J. Lyon, Chairman of the General Program of Liberal Studies, presented a lecture entitled "Nietzsche and Darwin: Science and the Psychology of the Will-to-Power," at the Seventh Annual Duquesne University History Forum, Pittsburgh, Pa. Nov. 2. He also presented a series of six lectures on Asian religions: Hinduism, Buddhism, Shinto and Confucianism; for the Sunnyside Presbyterian Church, South Bend, between Sept. 1 and Oct. 26.

Dr. Victor W. Nee, professor of aerospace and mechanical engineering, recently presented a paper entitled "The Simulation of the Atmospheric Surface Layer in the Notre Dame Atmospheric Wind Tunnel," at the annual meeting of the Division of Fluid Dynamics of the American Physical Society in New Haven, Conn., Nov. 11-21.

Rev. Edward D. O'Connor, C.S.C., associate professor of theology, read a paper entitled "The Historic Roots of the Charismatic Renewal," at the Third Annual Meeting of the Society for Pentecostal Studies, at Lee College, Cleveland Tenn. Nov. 30.

Rev. Daniel J. O'Neil, C.S.C., international student adviser, presented a paper and served on a panel "The Changing Foreign Student in the New World" at the regional conference of the National Association Foreign Student Affairs at Miami University, Oxford, Ohio.

Dr. Daniel J. Pasto, professor of chemistry, delivered an address entitled "Stereochemical Features of Cycloaddition Reactions of Alkenylidenecyclopropanes" before the Department of Chemistry at Wayne State University, Detroit, Mich. Nov. 28.

Dr. Maurice E. Schwartz, associate professor of chemistry, delivered an address entitled "On the Use of Pseudo Potentials and Model Potentials in Valence-only Molecular Models," June 6 at the Institute of Physics, University of Uppsala, Uppsala, Sweden. He also presented the lecture June 20 at the Institute for Theoretical Physics, University of Stockholm, Stockholm, Sweden. Schwartz presented another address, "Molecular Valence Electron Theories Based on Pseudo and Model Potential Formulations," July 6 before the First International Congress on Quantum Chemistry in Menton, France, and a third lecture, "Toward Accurate, Rigorous Valence-Only Electron Structure Theories," Nov. 8 for the Department of Chemistry of the University of Michigan, Ann Arbor, Mich.

office of advanced studies

Information Circulars

National Science Foundation Materials and Instruction Development

NO. FY74-65

The Pre-College Division of the National Science Foundation is concerned with improvement of courses and curricula in specific science disciplines and in broad interdisciplinary areas as well. The materials developed should be on topics of inherent interest to students; they should provide for a "hands on" learning approach - using real objects or physical models to illustrate intangible concepts that are difficult to grasp - and a solid foundation for later learning, whether within the formal school system or through self-generated learning outside of school. To the extent practicable they should offer superior educational return for little or no increase in investment, without significant expenditure for reorientation of school personnel.

High priority will be given to consideration of proposals for development to materials that relate science and technology to environmental and societal problems. The materials developed are expected to help

citizens make effective use of the objectivity, rationality, and analytical processes characteristic of science, as well as the results of scientific discovery, in their work and personal lives, whether or not they are in scientific or technical occupations.

There are no fixed due dates for the submission of proposals.

For further information, contact the Office of Advanced Studies, Division of Research and Sponsored Programs, Extension 7378.

National Institute of Education Research Grants Program Budget Reduction

NO. FY74-66

The National Council on Educational Research at its August 6 meeting approved allocating 10 to 15 percent of the NIE budget to a research grant program. However, since August, the Institute's budget for the current fiscal year will be substantially lower than anticipated. The Institute is presently operating at a level of \$75 million, a level that is less than half the Administration request. NIE's funding commitments to programs transferred from the Office of Education and the Office of Economic Opportunity amount to slightly more than \$75 million. The Council and the Institute staff are refining NIE's objectives and priorities and reviewing existing commitments to determine whether funds can be found for new initiatives, including a research grants program. These issues will be considered at the Council's meeting of December 3. Guidelines for submitting prospectuses will be announced shortly after the meeting if the Council approves a research grants program. However, the program will likely be funded at a much lower level and eligibility will be restricted to specific priorities of the Institute.

NIH and Alcohol, Drug Abuse and Mental Health Administration Research Fellowship Awards

NO. FY74-67

Individual Research Fellowship Award

Awards will be made to individual applicants for specified training proposals and selected as a result of a national competition for research training in specified health and health-related areas.

Prior to application, an applicant must arrange for acceptance at a sponsoring institution by a sponsor who will supervise his training. Fellows may be sponsored by a (domestic or foreign) private, or public nonprofit or a Government institution. The institution must have the staff and facilities suitable to provide the proposed research training. The major emphasis of the application must be the training experience and the broadening of scientific competence to be gained. Fellowships are not awarded for study leading to the MD, DDS, DVM, or other professional degrees. Request for study abroad may be requested after justifi-

cation that such study is not available in the United States.

Institutional Research Fellowship Award

The purpose of the Institutional Research Fellowship Award is to enable nonprofit institutions to develop research training opportunities for individuals interested in careers in areas of shortage in health sciences and related fields.

General Provisions

Eligibility

(For postdoctoral academic and research training only.) Individuals with a professional or scientific doctoral degree are eligible. Proposed study must result in (biomedical) research training in specified shortage areas, and may offer opportunity to research health scientists, research clinicians, etc., to broaden their scientific background, or to extend their potential for research in health-related areas.

Applicants must be citizens or non-citizen nationals of the United States or have been lawfully admitted to the United States for permanent residence at time of application.

Research training support may not be used for intern or other clinical training. Declaration requirement from candidate to this effect.

Tenure

Awards in either of the two programs may be made for one, two, or three years. Awardees are required to pursue their research training on a full-time basis as determined by the sponsoring institution in accordance with its own policies.

Pay-back Provision

Recipients of fellowship stipends are expected to engage in full-time research and/or teaching careers in research areas defined by the agency upon completion of training on a year-for-year basis.

Stipends

Stipends for Individual Research Fellows will be at the rate of \$10,000 for the first year beyond the PhD, MD, DO, DDS, DVM, or other doctoral degrees. No dependence allowance or travel allowance will be made available. The institution will be provided, upon application, with an allowance of up to \$3,000 to help defray the cost of training fellows (supplies and equipment, and in lieu of all tuition, fees, and deposits, laboratory, health, etc., charged other students or similar academic status, except fees and

deposits which are refundable in whole or in part to the student).

Institutional Research Fellowship Award Allowances and Indirect Costs

The stipends for fellows on institutional awards will be the same as for individual fellows; however, institutions receiving Institutional Research Fellowship Awards will be provided with an institutional allowance of up to \$1,000 per year for each fellow. In addition, institutions may request up to 25 percent of the total award for related costs (salaries, equipment, etc.), and an overhead cost allowance of actual costs of 8 percent of total allowable direct costs, whichever is less.

Due Dates for Applications

Individual Fellowship Program: January 15, and May 1.
Institutional Research Fellowship Award Program: January 15, and September 1.

For further information and a list of specified fields for each of the Institutes, contact the Office of Research and Sponsored Programs, Extension 7378.

American Heart Association Louis N. Katz Basic Science Research Prize for Young Investigators

NO. FY74-68

The Council on Basic Science of the American Heart Association has announced the Annual Louis N. Katz Basic Science Research Prize for Young Investigators. Its purpose is to encourage investigators under the age of 36 who are beginning careers in research to continue in the field of basic science. Candidates must be working in basic science, basic medical sciences, and such related fields as engineering, mathematics, behavioral science, physics, chemistry, and biology.

The prize will be awarded on the merit of a manuscript based on independent investigations pertinent to cardiovascular phenomena, and must be unpublished and not submitted for publication prior to May 1, 1974.

The prize will consist of a certificate and cash award of \$1,500. The recipient will present his research results before the Council on Basic Science of the American Heart Association, and the prize will be awarded in Dallas, Texas, November, 1974.

Application is to be made directly by the candidate, with date of birth clearly noted. An original and ten copies of the following must be included:

- A bibliography.
- A statement in support of the application from a major research director or advisor certifying the originality and independence of the work.
- A complete unpublished manuscript based on independent research including illustrative materials, which must not exceed 8 1/2 x 11 inches.

Only one manuscript per author will be considered.

Applicant must be either nearing completion of training or have completed it recently. He must be the sole or senior author. No limits are set on length, but brevity, clarity, and completeness are urged. There are no citizenship requirements, and applicant may have pursued his studies in any country.

The awardee will be encouraged to submit his manuscript for consideration for publication in CIRCULATION RESEARCH but will be free to publish it in another journal of his choice.

Submit applications to:

Miss Linda Pellettiere, Administrative
Secretary
Section on Scientific Councils
American Heart Association
44 East 23 Street
New York, New York 10010

The JDR Third Fund Asian Cultural Program

NO. FY74-69

The Asian Cultural Program concentrates on projects in the visual and performing arts relating to countries from Afghanistan eastward to Japan. Fields include archeology, art history, architecture, dance, design film, literature, museology, music, painting, sculpture, and theater.

Grants are made in four major areas relating to the arts:

- Advancement of opportunity for Asians in the above fields.
- Preservation of Asian cultural traditions.
- Exhibitions and performances in the United States of Asian cultural achievements.
- Exhibitions and performances in Asia of cultural achievements of the United States.

Grants are seldom made directly to individuals; most of the fellowships and grants-in-aid are administered by the institution.

Applications may be submitted at any time because grant decisions are made throughout the year.

For further information contact the Office of Research and Sponsored Programs, Extension 7378.

The JDR Third Fund Arts in Education Program

NO. FY74-70

The Arts in Education Program attempts to find out how to make the visual and performing arts a constituent of the general education of all American children, not merely those who have shown special talent or who wish to pursue professional careers.

The Program sponsors a limited number of projects, differing in approach, in school systems that have shown special interest in developing ways for achieving this goal, and a readiness to build successful results of these experiments into their ongoing programs when Fund support ends. These demonstrations are intended to provide models adaptable by other schools and school systems.

Applications may be submitted at any time because grant decisions are made throughout the year.

For further information contact the Office of Research and Sponsored Programs, Extension 7378.

University of Edinburgh Institute for Advanced Studies in the Humanities Visiting Research Fellowships

NO. FY74-71

Fellowships will be offered in 1974-75, for periods ranging from one term to one year, for advanced research in subjects within the field of the Humanities. Applications are invited from scholars of established reputation, as well as from younger scholars holding a doctorate or other evidence of aptitude for further study. The value of awards will vary according to circumstances. The last day for accepting applications is 31 January 1974.

Application forms and additional information may be obtained from Professor William Beattie, Director, Institute for Advanced Studies in the Humanities, 17 Buccleuch Place, Edinburgh EH8 9LN.

National Aeronautics and Space Administration American Society for Engineering Education Summer Faculty Fellowships

NO. FY74-72

Aeronautics and Space Research

Objectives: (1) To further the professional knowledge of qualified engineering and science faculty members. (2) To stimulate an exchange of ideas between participants and NASA. (3) To enrich and refresh the research and teaching activities of participants' institutions.

Research Fellowships: Awarded to engineering and science faculty members for summer research in a NASA-university cooperative program. Fellows will conduct research projects of mutual interest to the Fellow and to the NASA center. Each fellow will work with a center colleague and will be associated directly with the aeronautics and space program and the concomitant basic research problems. Special courses, seminars, workshops, lectures and the like are included in each cooperative program. These Fellowships may be renewed for a second summer subject to the availability of funds.

Fellowships: Stipends are \$275 per week for first-year Fellows or \$300 per week for second-year Fellows. Travel allowance will be paid. Approximately 60 first-year Fellowships will be awarded.

Duration: 10 weeks

Application due date is February 15, 1974. Awards will be announced on March 15, 1974. For application forms and information, contact:

Mr. F.X. Bradley, Jr.
American Society for Engineering Education
Suite 400, One Dupont Circle
Washington, D.C. 20036

National Science Foundation Instructional Scientific Equipment

NO. FY74-73

The NSF Instructional Scientific Equipment Program is designed to assist in the improvement of undergraduate instruction in science at two- and four-year institutions of higher learning by helping to pay for scientific equipment needed to implement new instructional programs.

This program, funded at \$2.5 million, has two limitations. Grants of up to \$20,000 will be

made on a matching fund basis. Also, the University of Notre Dame may submit no more than five proposals.

The due date for receipt of proposals is February 15, 1974.

For further information, contact the Office of Research and Sponsored Programs, Extension 7378.

Graduate School

Woodrow Wilson National Fellowship Foundation Doctoral Dissertation Fellowships in Women's Studies

NO. FY74-GS17

Purpose

The Woodrow Wilson National Fellowship Foundation, with funds from the Ford Foundation, is offering twenty doctoral dissertation fellowships for use in 1974-1975 by men and women writing dissertations in women's studies. The fellowships encourage original and significant contributions to the body of knowledge concerning women. Dissertations on women in history and as reflected in literature will be eligible. However, the emphasis of the program will be on topics concerned with the evolution of woman's role in society and particularly in contemporary America.

Eligibility

Students in doctoral programs at graduate schools in the United States are eligible. Although most applicants will come from disciplines within the humanities and social sciences, students in other fields are also eligible. Fellowships are open to all without regard to sex, citizenship or age. Candidates may apply before passing all examinations but must have fulfilled all pre-dissertation requirements by September 1974.

Duration of Award and Stipend

The fellowship will be for a period of up to 12 months, beginning either in June or September 1974, and is not renewable. A fellowship covers the cost of tuition and required fees incurred during tenure of the award, and in addition provides a stipend of \$250 per month, plus a dependency allowance of \$1000 for one child and \$1500 for two or more children. The award is not designed to finance extensive field research. However, a supplementary allowance of up to \$1000 is available to cover the cost of dissertation related expenses such as books, microfilming, xeroxing and manuscript preparation. While the award may be used at

any place for purposes essential to the completion of the dissertation, residence away from the graduate school must be recommended by the dissertation director and approved by the graduate dean. The expenses and the difficulties inherent in research abroad require that the applicant present convincing evidence to justify the need for foreign travel.

Conditions

Fellows may not accept awards which provide duplicate benefits or which overlap the tenure of the Woodrow Wilson award without specific approval from the Foundation. Since the fellowship is designed to free students from work other than the dissertation, no employment may be undertaken during tenure of the award.

Nomination and Application Procedure

Students must be nominated on forms supplied to the graduate dean by the Foundation. Application forms will then be sent directly to the candidate.

Deadlines: for receipt of
nominations February 1
for receipt of completed applications
and supporting documents March 1

Supporting documents consist of: (1) a brief autobiography, (2) transcripts from undergraduate and graduate schools attended, (3) letters of reference from three graduate faculty members on forms provided by the Foundation, (4) a dissertation prospectus, not to exceed 2,000 words, which includes a brief statement of plans for research and writing and a tentative time schedule for carrying out these plans. The prospectus must be signed by the Dissertation Director and the Graduate Dean.

Selection Procedure and Criteria

An interdisciplinary committee of distinguished scholars will select the winners, and the awards will be announced no later than May 1. Decisions will be based on the following criteria: the dissertation's contribution to the field of women's studies; scholarly validity of the dissertation; the applicant's preparation and ability to accomplish the dissertation. Other things being equal, preference will be given to students who show promise of being able to finish the dissertation during tenure of the award.

Inquiries may be addressed to Ms. Janet Mitchell, Program Director, Woodrow Wilson National Fellowship Foundation, Box 642, Princeton, New Jersey 08540.

Telephone: 609-924-4666.

Current Publications And Other Scholarly Works

SCIENCE

Chemistry

- Castellino, Francis J.
L.A. Schick and F.J. Castellino. 1973. Interaction of streptokinase and rabbit plasminogen. Biochemistry 12:4315-4321.
- Fehlner, Thomas P.
T.P. Fehlner and D.W. Turner. 1973. Photoelectron spectrum of HBS. Journal of the American Chemical Society 95:7175-7177.
- Funabashi, Paul K.
*I.-Y. Cheng and P.K. Funabashi. 1973. On the low-energy event in Hiraoka-Hamill experiments. The Journal of Chemical Physics 59(6):2977-2979.
- Hamill, William H.
*H.-W. Ko and W.H. Hamill. 1973. Optical absorption spectra of S²⁺ impurity ions in aqueous halide ion glasses. Journal of Physics and Chemistry of Solids 34:1893-1899.
- Magee, John L.
*J.V. Dugan, Jr. and J.L. Magee. 1973. Momentum transfer and total scattering cross sections for ions with polar molecules. The Journal of Chemical Physics 58(12):5816-5822.
- Thomas, J. Kerry
*M. Gratzel and J.K. Thomas. 1973. On the dynamics of pyrene fluorescence quenching in aqueous ionic micellar systems. Factors affecting the permeability of micelles. Journal of the American Chemical Society 95:6885-6889.
- Walter, Joseph L., C.S.C.
J.L. Walter, C.S.C., Y. Inomata, and T. Moriwaki. 1973. Infrared absorption spectra and normal coordinate analysis of metal DL-phenylalanine chelates. Spectrochimica Acta 29A:1933-1946.
- *Under the Radiation Laboratory

Mathematics

- Huckleberry, Alan T.
A.T. Huckleberry. 1973. The weak envelope of holomorphy for algebras of holomorphic functions. Pacific Journal of Mathematics 47(1):115-128.
- Stoll, Wilhelm F.
W.F. Stoll. 1973. Deficit and Bezout estimates. Pages 1-271 in, Part B, R.O. Kujala and A.L. Vitter III, editors, Proceedings of the Tulane University Program on Value-Distribution Theory in Complex Analysis and Related Topics in Differential Geometry. Marcel Dekker, Inc., New York.

- Vuckovic, Vladeta
V. Vuckovic. 1973. Local recursive theory. Notre Dame Journal of Formal Logic 14(2):237-246.

Physics

- Blackstead, Howard A.
M.T. Elliott and H.A. Blackstead. 1973. Magnetoelastic resonances in Gd films. Lettere al Nuovo Cimento 8:439.

ARTS AND LETTERS HUMANISTIC AND SOCIAL STUDIES

Education

- Lee, James M.
J.M. Lee. 1973. The Flow of Religious Instruction Pflaum/Standard, Dayton, Ohio. 379 pp.

Sociology and Anthropology

- Press, Irwin
I. Press. 1973. Bureaucracy versus folk medicine: Implications from Seville, Spain. Urban Anthropology 2:232-247.
- I. Press. 1972. Urban illness: Medical resources, urban structure and response in Seville. Nord Nytt 3:160-163.

Theology

- Yoder, John H.
J.H. Yoder, ed. 1973. The legacy of Michael Sattler; Vol. 1 in Classics of the Radical Reformation. (Transl. from German.) Herald Press, Scottdale, Pa. 191 pp.

BUSINESS ADMINISTRATION

Management

- Sexton, William P.
W.P. Sexton. 1973. Personnel evaluation and goal setting. Hospital Progress 54(12):58-62

ENGINEERING

Aerospace and Mechanical Engineering

- Mueller, Thomas J.
A.E. Fanning and T.J. Mueller. 1973. Numerical and experimental investigation of the oscillating wake of a blunt-based body. AIAA Journal 11(11):1486-1491.
- Szewczyk, Albin A.
C.J. Apelt, G.S. West, and A.A. Szewczyk. 1973. The effects of wake splitter plates on the flow past a circular cylinder in the range $10^4 < R < 5 \times 10^4$. Journal of Fluid Mechanics 61(1):187-198.

Awards Received

IN THE MONTH OF NOVEMBER, 1973

Department or Office	Principal	Short title	Sponsor	Amount-\$ term
AWARDS FOR RESEARCH				
Microbiology - Lobund Lab.	Pollard	Studies on virudical effects of ozone	Telecom. Ind., Inc.	22,786 1 yr.
Metallurgical Eng.	Fiore	Heat exchanger alloy development	Rudy Mfg. Corp.	3,300 7 mos.
Chemistry	Duncan	Valence isomerization rates of allenylbornenes	Research Corp.	3,400 1 yr.
Chemical Eng.	Kohn	Solubility of hydrocarbons in cryogenic NGL and LNG	Natural Gas Proc. Assocn.	20,000 1 yr.
Microbiology- Lobund Lab.	Pollard	Electron microscopy studies of neoplastic lesions	Cancer Soc. St. Jos. Cty.	8,500 1 yr.
Biology	Weinstein	Genetics and cancer	Cancer Soc. St. Jos. Cty.	7,814 1 yr.
AWARDS FOR EDUCATIONAL PROGRAMS				
Philosophy	Delaney	Perspectives in philosophy lecture series	Matchette Fdtn.	2,000 1 yr.
Chemistry	Hofman	1974 summer institute for high school teachers - chemistry	Natl. Sci. Fdtn.	29,367 ---

Proposals Submitted

IN THE MONTH OF NOVEMBER, 1973

Department or Office	Principal	Short title	Sponsor	Amount-\$ term
PROPOSALS FOR RESEARCH				
Chemistry	Castellino	Structure - function studies on plasminogen and plasmin	Natl. Inst. Health	54,312 1 yr.
Graduate Studies Education	Lee	Prophetic role of religious education	---	34,800 1 yr.
Chemistry	Freeman	Chemistry of N-hydroxypyrozoles	Natl. Inst. Health	31,508 1 yr.
Microbiology - Lobund Lab.	Pollard	Immunotherapy of neoplastic diseases	Elsa U. Pardee Fdtn.	8,000 1 yr.
Chemical Eng.	Kohn	Solar energy collection for thermal applications	Natl. Sci. Fdtn.	91,830 1 yr.
Biology	Esch	Identification of dangerous Brazilian bees	Natl. Sci. Fdtn.	74,326 2 yrs.
Chemical Eng.	Smith	Optimization and design of a fixed-bed catalytic reactor	Natl. Sci. Fdtn.	17,895 18 mos.
Center for the Study of Man	Liu	Graduate studies in social research	Natl. Inst. Health	45,538 1 yr.
Chemistry	Fehlner	UV photoelectron spectroscopy of unstable molecules	Amer. Chem. Soc.	20,000 2 yrs.
Sociology Anthropology	Dodge	Campus milieux, information net- works, and drug patterns	Natl. Inst. Health	52,870 1 yr.
Sociology Anthropology	Smith	Nonviolence in intl. conflict: A social psychological analysis	---	60,826 1 yr.
Electrical Eng.	Nahas	Research initiation - a braille recording system	Natl. Sci. Fdtn.	17,872 18 mos.
Biology	Weinstein	Development of parasitic nematodes in vitro	Natl. Inst. Health	71,249 1 yr.
Civil Eng.	Theis	Chemistry of selected metals in natural waters	Natl. Sci. Fdtn.	17,004 18 mos.

Civil Eng.	Ketchum	Low lime addition for phosphate removal	Natl. Sci. Fdtn.	17,891
Physics	Khorana	Quantum properties of superfluid helium	Natl. Sci. Fdtn.	18 mos.
				53,612
				2 yrs.

PROPOSALS FOR EDUCATIONAL PROGRAMS

English	Vasta	Annual lecture series - Department of English	---	10,000
				1 yr.
General Program	Lyon	Ethics of public office: A humanistic perspective	Indiana Comm. Humanities	7,010
Office of the Provost	Jones	Humanistic aspects of womanhood	Indiana Comm. Humanities	17,247

PROPOSALS FOR SERVICE PROGRAMS

Biology	Murdock, Bender	Legal internship program: Law and the handicapped	Natl. Center Law Handicapped	61,085
				1 yr.

Summary of Awards Received and Proposals Submitted

IN THE MONTH OF NOVEMBER, 1973

AWARDS RECEIVED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	4	\$ 42,400	2	\$ 23,400	6	\$ 65,800
Facilities and Equipment	-	---	-	---	-	---
Educational Programs	1	29,367	1	2,000	2	31,367
Service Programs	-	---	-	---	-	---
Total	5	\$ 71,767	3	\$ 25,400	8	\$ 97,167

PROPOSALS SUBMITTED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	5	\$ 210,607	11	\$ 458,926	16	\$ 669,533
Facilities and Equipment	-	---	-	---	-	---
Educational Programs	-	---	3	34,257	3	34,257
Service Programs	1	61,692	-	---	1	61,692
Total	6	\$ 271,692	14	\$ 493,183	20	\$ 764,875

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
American Bar Foundation	Fellowships	February 1, 1974
American Council of Learned Societies	ACLS Grants-In-Aid	February 15, 1974
	ACLS Travel Grants to International Congresses and Conferences Abroad	February 1, 1974
	ACLS-SSRC Grants for Study of East European languages	February 1, 1974
Environmental Protection Agency	Environmental Research Development, and Demonstration	February 1, 1974
	Radiation Training	February 1, 1974
Folger Shakespeare Library	Folger Library Fellowships	February 1, 1974
Food and Drug Administration	Research Support	February 1, 1974
National Center for Health Services Research and Development	Development and Demonstration Projects	February 1, 1974
	Exploratory Research Grants	February 1, 1974
	Research Project Grants	February 1, 1974
National Endowment for the Humanities	Public Programs	February 15, 1974
National Institute of Education	Research in Education	February 1, 1974
	Research in Education - Small Grants	February 1, 1974
	Research in Special Areas of Education	February 1, 1974
National Institutes of Health	Biomedical Publication Grants	February 1, 1974
	Biotechnology Resources	February 1, 1974
	Projects to Support Animal Resources	February 1, 1974
	Research Project Grants	February 1, 1974
National Institute of Mental Health	Academic Career - Teacher Awards (Non-medical) in Narcotic Addiction and Drug Abuse	February 1, 1974
	Alcohol Abuse and Alcoholism	February 1, 1974
	Clinical Investigator Awards in Narcotic Addiction and Drug Abuse	February 1, 1974
	Drug Abuse Education Projects	February 1, 1974
	Mental Health Epidemiology	February 1, 1974
	Mental Health of Children and Families	February 1, 1974
	Mental Health of the Aging	February 1, 1974
	Mental Health Program - Project Grants	February 1, 1974
	Mental Health Research Grants	February 1, 1974
	Metropolitan Problems	February 1, 1974
	Minority Group Mental Health Programs	February 1, 1974
	Research on Narcotic Addition and Drug Abuse	February 1, 1974
	Special Training Projects in Mental Health	February 1, 1974
	Studies of Crime and Delinquency	February 1, 1974
	Training for Health and Health-Related Professionals in Narcotic Addition and Drug Abuse	February 1, 1974
National Science Foundation	Antarctic Research Program	February 1, 1974
	International Magnetospheric Study	February 1, 1974
Office of Education	Basic Educational Opportunity Grants	February 1, 1974
Princeton University	Doherty Fellowships for Latin American Study	February 1, 1974
Public Health Service	Commissioned Officer Student Training and Extern Program	February 1, 1974
	Occupational Safety and Health Demonstrations	February 1, 1974
	Occupational Safety and Health Research	February 1, 1974
Smithsonian Institution	Foreign Currency Program	February 1, 1974
United Chapters of Phi Beta Kappa	Mary Isabel Sibley Fellowship	February 1, 1974

documentation

Art Gallery accreditation

Narrative Report of the Accreditation Committee Visit to the Art Gallery of the University of Notre Dame, Wednesday, August 8, 1973

The Committee was impressed with the scope and quality of the collections assembled at the University of Notre Dame. The commitment to the development of a collection covering the entire span of man's artistic activity has been faced with evident knowledge and taste with the result that the collection now includes items of high quality representative of a considerable number of periods and cultures. It is also evident that a special skill has been brought to bear on the cultivation of gifts from private donors. The development and use of an Advisory Council made up of specialists in various fields and connoisseur-collectors has provided the Gallery with professional guidance of a high order.

Present limitations of space restrict the educational role of the Gallery, but the planning for a proposed physical expansion has been carefully worked out and upon realization should substantially increase the impact of the Gallery within the University and the community.

It was the opinion of the committee that the staff should clarify in written form the Gallery's policies regarding acquisitions, loans, and emergency procedures.

In conclusion it is the unanimous recommendation of the committee that the Gallery be granted accreditation. The University of Notre Dame can take particular pride in the professionalism of its Art Gallery.

Norman A. Geske, chairman
Director
University of Nebraska
Museum of Art, Lincoln, Nebraska

Gustave Von Groschwitz, committee member
Assistant Director
State University of Iowa
Museum of Art, Iowa City, Iowa

Memorandum to Faculty and Professional Administrators Regarding Blue Cross

Now that the University provides Blue Cross-Blue Shield insurance coverage for faculty members and their dependents, the question has been raised about the spouse of a retiring faculty member. Although the faculty member becomes eligible for Medicare, not infrequently the spouse does not yet qualify for Medicare and can be enrolled in a Blue Cross-Blue Shield plan with less medical and hospitalization benefits than the University policy provides.

The University has approached the officials of Indiana Blue Cross-Blue Shield and they have agreed to continue the coverage of spouses of emeriti not continuing on our payroll. The spouses may continue in our group on a Single Plan or on the Family Plan if they so require until they reach age 65. At that time they go on the Blue Cross-Blue Shield Supplemental Plan.

Since the emeriti are not on the payroll, the premium for the spouse, of course, will be paid by the retired faculty member, or should he be deceased, by the surviving spouse.

We believe that this is a significant enlargement of very important fringe benefits at a time in life when medical and hospitalization costs can be extremely difficult to cope with.

James T. Burtchaell, C.S.C.
November 29, 1973

University Energy Conservation Committee

To: Rev. Jerome J. Wilson, C.S.C.
Brother Kieran Ryan, C.S.C.
Rev. James F. Flanagan, C.S.C.
Dean Joseph C. Hogan
Dean Thomas T. Murphy
Associate Dean Edward Jerger
Sister Isabel Charles
Brother Borromeo Malley, C.S.C.
Mr. Edwin V. Lyon
Mr. William J. Ganser
Mr. John F. Plouff
Mr. David G. Donovan
Mr. Edmund T. Price
Mr. Ken W. McCandless
Miss Carol E. Simmons
Mr. Tony R. Walter
Miss Kathleen Cekanski
From: Rev. Theodore M. Hesburgh, C.S.C.
Subject: University Energy Conservation Committee

I am asking each of the above to accept membership on the University Energy Conservation Committee. As you know, most universities have already initiated such a committee and some universities and colleges already have programs in progress. We are somewhat late in getting started which makes it imperative that the Committee meet soon, elect its Chairman, and initiate its discussions.

I would assume that every possible source of energy conservation will be the purview of this Committee, insofar as it is within the power of the University to conserve energy in its operation.

I would also assume that this is not necessarily a popular Committee, since no one likes regulation, particularly regulation that restricts free use of something. However, as a moral force in our society, I believe the University should give a good example. It might also be helpful to see what other universities are doing.

Since the Deans are already on so many other committees of the University, it would be agreeable to me if the Deans named above would feel free to designate a well-qualified substitute in the event that they have a conflict with some particular meetings of the Committee.

Needless to say, I appreciate very much the willingness of all of you to assume an additional responsibility in an already overburdened life. Many thanks on behalf of the whole University community.

Very devotedly in Notre Dame,

(Rev.) Theodore M. Hesburgh, C.S.C.
President

Terry Lectures

(In a series of three Terry Lectures earlier this month at Yale University, Father Hesburgh explored the second millennium of Christianity. The Terry Lectureship was established in 1905 "to treat religion in the light of science and philosophy," and the Yale University Press will be publishing Father Hesburgh's talks, which had the overall title of "The Year 2,000: Dream or Nightmare?" Next September, Notre Dame's president has been invited to give the Ditchley Lectures at Oxford University. Following is a summary by topic of what he said at Yale.)

Ecumenism--Christian unity will become a reality, but it will not imply uniformity. Also, a broader ecumenical movement between Christianity and non-Christian religions, whose members number more than one billion, will grow, first among the religions of the Book and the sons of Abraham--Muslimism and Judaism--and then among Hindus, Buddhists, Confucianists, Shintos, and others. The pilgrimage to Bangkok, on which Thomas Merton died while seeking what wisdom the East might contribute to monasticism, was symbolic of a journey the Western churches are embarked upon.

Human Dignity--the history of man, rooted in slavery, should see more of its ideals--such as the United Nations' Universal Declaration of Human Rights--become reality. Needed is a worldwide ombudsman, a high commissioner for human rights under U.N. auspices who might focus attention on mechanisms to achieve human rights on an international basis. In the United States, civil rights progress made during the 1960's was unduplicated in the nation's political and social history, proving that law can, indeed, prove educative. However, as civil rights problems moved north and "politicians, like sharks smelling blood, began to see political profit in catering to inherent prejudices and fears...the slowdown and slip-back began, led by the highest powers in the land." More than the military shield of America, the world needs its renewed moral leadership.

Population--If we cannot adequately feed, clothe, house and educate a current world population of 3 1/2 billion, what will we do with the 6 or 7 billion expected at the start of the next millennium, especially after their hopes have been whetted by the revolution of rising expectation? Just about everyone concedes that "rational and moral population control" is of the highest priority, but "we know less about the biochemistry of human reproduction than about the breeding of farm animals." The best centers of medical and biological research should be charged with developing "a whole new array of means (of birth control) to meet any moral or cultural requirements imaginable." Contrary to common opinion, the Catholic Church is not the great obstructor of progress in this area; developed or developing countries control their populations, and the less developed do not, irrespective of whether they are Catholic or not.

Land, Food, Housing--Urbanization is failing us--the central cities are becoming deserted hulks and underpopulated rural areas are also losing people to the suburbs. Urban slums must be removed and housing dispersed into open areas beyond suburbia. The link is radically improved rapid transit, supported by an additional gas tax of from 10 to 40 cents. Food needs call for better genetic stocks of seed for high productivity and better nutritional quality) the so-called "green revolution", as well as better animal and fish production for protein. The problem of land (there are few untilled arable stretches left) must be met by experiments in raising food in the oceans and by reclaiming the one-third of the world's land mass classified as desert, which often has good soil in addition to sunlight and lacks only water. Technology is now available which could use fast-breeder nuclear reactors for electrical energy production and desalination of water to irrigate such land.

Education--Newer countries cannot follow the example of affluent nations by building classrooms and training vast numbers of teachers. It is time to approach mass education in a manner which recognizes the "global village" modern communications has created. A meshing of technology--television, synchronous satellites, computerized information storage and retrieval--will be capable of creating a kind of sophisticated "Sesame Street" which can bring the world's best teachers to its most remote students. The investment would be below the \$200 billion dollars the world now budgets for armaments and less than the cost of providing a conventional education for a billion persons. Apart from this sort of beginning education, the same technology can be applied to more sophisticated continuing education, and a "World University" operating via television satellites can be instrumental in breaking down the last political barriers to intellectual freedom.

Geopolitics--The historical East-West orientation of international politics will give way to a new North-South grouping, resulting largely in a tri-regional world. Japan and China will lead a resurgent Orient, with Russia and its allies forced into much closer cooperation with a uniting Europe, while the United States struggles to mend its South American fences and forge an Economic Union of the Western Hemisphere. With Japan and China drawing on the mineral wealth of Indonesia, Malaysia, and Western Australia and the "new Europe" looking toward the Middle East and Africa, it is probable that the North and South American coalition would be third in economic clout.

Development--"Development" is now identified by poor nations with policies by which rich nations have despoiled their resources while leaving their feudal social structures untouched. They want to substitute the word "liberation." They want to be free to determine their own destiny, to choose their own model of development. It is in America's best interest to pass bills such as one recently scuttled by Congress which would have established a billion dollar credit annually for the poorest 1.9 billion of the world's people.

Theology--The modern theological attitude is characterized by the word "orthopraxis," which relates to critical theological reflection and, especially, action regarding a Christian's life and commitment in a very complex world, according to the light of the Gospel message. Orthopraxis is used in contrast to orthodoxy which reflects a concern for doctrine, especially in the abstract order of ideas. "The Dutch theologian, Edward Schillebeeckx, puts it bluntly, although a bit too antagonistically and absolutely for me: 'It is evident that thought is necessary for action. But the Church has for centuries devoted her attention to formulating truths and, meanwhile, did almost nothing to better the world. In other words, the Church focused on orthodoxy and left orthopraxis in the hands of non-members and non-believers.'"

In concluding his final lecture, Father Hesburgh invited his audience to visualize the planet earth as a spaceship and to ponder the morality of a situation in which one person--representing the Western Europe and North America--has the use and control of 80 per cent of the total life-sustaining resources on board, leaving the other four "crewmen"--representing the other four-fifths of humanity, or 2 1/2 billion persons--to get along on the 20 per cent of the resources left. He also argued against the "one great remaining divider of human kind, national sovereignty" in favor of a dual citizenship which would allow a national also to earn world citizenship.

notre dame report

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