

notre dame report

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faculty notes

appointments

Arthur M. Grubert, assistant to the director of Foreign Study Programs and assistant professional specialist in Arts and Letters, will assume additional duties as director of the International Student Affairs office next semester. There are 375 students from 64 foreign countries at Notre Dame this semester. Grubert will succeed Brother George Schmitz, C.S.C., who has been appointed director of Prenovitiæ Formation of the Brothers of the Holy Cross, Eastern Province, in Bronx, N.Y.

honors

Terrence J. Akai, assistant professor of aerospace and mechanical engineering, received the Outstanding Teacher Award during the University's College of Engineering Honor Award Ceremony April 25.

Panos J. Antsaklis, associate professor of electrical engineering, has been appointed associate editor for the IEEE Transactions on Automatic Control.

Robert W. Clausen, guest assistant professor of microbiology, has been named a Fellow of the American Academy of Allergy and Immunology, and was recently appointed to the Advisory Council to the President of Valparaiso (Ind.) University.

Anne Carson Daly, assistant professor of English, has been elected to The Philadelphia Society.

Cornelius F. Delaney, professor of philosophy, has been elected Vice President, President-Elect of the Charles Sanders Pierce Society, which focuses on American philosophy.

Robert A. Howland, assistant professor of aerospace and mechanical engineering, was awarded the AT&T Foundation Award for excellence in the instruction of engineering students at the Illinois-Indiana Section Meeting of the American Society of Engineering Education, held in Collinsville, Ill., April 20.

Douglas W. Kmiec, professor of law and director of the Thomas J. White Center on Law and Government, has been named a Visiting Scholar by the Hoover Institution at Stanford (Calif.) University. Kmiec will conduct research at Stanford on the inter-relationship between property and civil rights.

Konrad Schaum, professor of modern and classical languages, was elected to the board of directors of the Grillparzer-Society in Vienna, Austria, April 9.

Donald E. Sporleder, professor of architecture, was re-elected director of the National Council of Architectural Registration Boards at the spring meeting of Region 4, Mid-Central States Conference, at Lake of the Ozarks, Mo., March 21-23.

Nancy K. Stanton, associate professor of mathematics, has been awarded the 1985 Sigma Xi prize for outstanding research.

James P. Sterba, associate professor of philosophy, has been elected vice-president (1985-87) with automatic succession to presidency (1987-89) of the International Association for Philosophy of Law and Social Philosophy, American Section.

Paul P. Weinstein, professor of biology, has been elected president of the American Society of Tropical Medicine and Hygiene.

Rev. Oliver F. Williams, C.S.C., assistant professor of management, gave the commencement address at Saint Meinrad (Ind.) School of Theology April 25.

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activities

Hafiz Atassi, professor of aerospace and mechanical engineering, gave a presentation on "Feedback and Resonance in Separated Flows over Airfoils" at the 12th annual Midwestern Fluid Mechanics Retreat held at Geneva Center, Rochester, Ind., April 19.

John G. Borkowski, professor of psychology, served as the external examiner on a dissertation defense at the University of Calgary (Canada), Jan. 10. On March 7, he participated in a symposium on "Spontaneous Strategy Use" at the annual Gatlinburg (Tenn.) Conference on Research in Mental Retardation and Developmental Disabilities, presenting a paper on "Metacognition, Attributional Beliefs, and Inefficient Learning." Dr. Borkowski organized a symposium on "Metacognition and Instruction" for the meetings of the American Educational Research Association, Chicago, March 31 - April 3, delivering papers on "Metamemory and Motivation: A Causal Analysis of Strategy Use in German and American Children" (with Wolfgang Schneider of the Max Planck Institute, Munich, Germany) and "Metacognition, Attributions, and Performance Deficits in Hyperactive Children" (with M.K. Reid of the University of Washington). He served with an NIH study section evaluating small-business grant applications April 22-23, and attended the biannual meetings of the Society for Research in Child Development April 25-28 in Toronto, Canada, presenting papers on "Metacognition and the Development of Strategic Skills in Impulsive and Reflective Children" (with B.E. Kurtz of the Max Planck Institute), and "Attributional Beliefs and Self-Control Training" (with M.K. Reid).

Alan B. Cain, assistant professor of aerospace and mechanical engineering, gave a presentation titled "Simulation of a Forced Free Shear Layer" (with M. Thompson) at the 12th Midwestern Fluid Mechanics Retreat, held in Rochester, Ind., April 18-20. He also presented a seminar titled "Free Shear Layer Instability and Control" at the NASA Lewis Research Center, Cleveland, Ohio, April 23.

Dino S. Cervigni, associate professor of modern and classical languages, was a panelist in a seminar on "Italian Academic Publishing in North America" and presented a paper on "Dante's Swoon and Sleep on the Mountaintop" at the Fifth Annual Conference of the American Association for Italian Studies, held at the University of South Florida, Tampa, April 11-13.

David A. Cowan, assistant professor of management, presented a paper titled "Theoretical Model of the Problem Recognition Process" at the Midwest Academy of Management, University of Illinois, Champaign-Urbana, April 19.

Theodore J. Crovello, professor of biology, gave a campus-wide workshop on educational computing titled "Computers in the Liberal Arts Curriculum" at Drew University, Madison, N.J., April 26.

James T. Cushing, professor of physics, conducted a seminar titled "Does Science Give Us Stable Knowledge? If So, How?" at the Center for Interdisciplinary Study of Science and Technology at Northwestern University, Evanston, Ill., April 19.

Anne Carson Daly, assistant professor of English, delivered an invited lecture titled "The Humanistic Darkness before the Christian Dawn" at a Conference on the Great Awakening, Houston, Tex., April 20.

Cornelius F. Delaney, professor of philosophy, gave the Presidential Address to the annual meeting of the American Catholic Philosophical Association in Milwaukee April 13. The theme of the meeting was "Realism" and the title of Dr. Delaney's address was "Beyond Realism and Anti-Realism."

John D. Dow, Freimann professor of physics, gave a presentation on "Qualitative Physics of Deep Levels" as an invited speaker at the spring meeting of the Materials Research Society, San Francisco, Calif., April 15-18. He was also invited to speak at a Workshop on Large-Scale Computational Device Modeling in Naperville, Ill., April 18-19; his presentation was titled "Calculating the Physical Properties of Semiconductor Microstructures: Current Limitations."

Three sculptures and two drawings by Moira Marti Geoffrion, associate professor of art, art history and design, were included in "Third World: Art-ifacts and Reactions," a four-person exhibition at Gallery Aquinas, South Bend, celebrating International Women's Day. The exhibit was on display from March 8 through the month of April.

Sonia G. Gernes, associate professor of English, gave a lecture titled "Women Writers: Claiming Our Lives" to the Friends of the IUSB Library, South Bend, April 16, and gave a reading of her poetry and fiction to the Friends of the Mishawaka Public Library March 27.

John L. Hardwick, assistant professional specialist in the Radiation Laboratory, gave seminars on "Ergodic Behavior in Small Molecules" at Hope College, Holland, Mich., April 23, and at Baylor University, Waco, Tex., April 29.

Eileen F. Kearney, assistant professor of theology, has received a grant from the Newberry Library, Chicago, Ill., for research on the topic, "Sebastian Castellio: A Sixteenth-Century Humanist and the Song of Songs." She also served as Convenor/Presider for two sessions on "Medieval Studies in Honor of Beryl Smalley" and "Medieval Theology: The Twelfth Century" at the International Congress on Medieval Studies held at Western Michigan University, Kalamazoo, May 9-12.

Edward A. Kline, chairman and professor of English and director of the Freshman Writing Program, presented a paper, "Using the Microprocessor in the Composition Class" at the ninth annual Mid-America Conference on Composition, Vincennes (Ind.) University, April 19. He also presented a paper on "Using the Microcomputer to Review English Grammar and Spelling" at the 1985 Statewide Academic Microcomputer Conference, Indiana University-Purdue University, Indianapolis, April 25.

Douglas W. Kmiec, professor of law and director of the Thomas J. White Center on Law and Government, served as panel chairman of a seminar on "International Law and National Sovereignty -- the Implications of the Law of the Sea and Genocide Treaties" at the 13th annual meeting of The Philadelphia Society, Chicago, April 13.

John W. Lucey, associate professor in aerospace and mechanical engineering, spoke on "Nuclear Energy - Promises and Problems" at a meeting of the Mishawaka Lions Club, Jan. 3.

Scott P. Mainwaring, assistant faculty fellow in the Kellogg Institute and assistant professor of government and international studies, gave a presentation on "The Democratic Regime and Popular Movements" at the Brazilian Institute of Social Development, Rio de Janeiro, March 30. He also presented "Grass-Roots Popular Movements and the Struggle for Democracy, 1974-1985" at the Center of Studies of Contemporary Culture, Sao Paulo, Brazil, April 19, and "The Struggle for Hegemony in the Brazilian Catholic Church" at the Center for the Study of Religion, Sao Paulo, April 23.

John R. Malone, professor of marketing, reviewed the new bestseller, "What They Don't Teach You at Harvard Business School" by Mark McCormack at the Business Forum of the College of Business Administration held in the Monogram Room of the ACC April 11.

An interview with Rev. Richard P. McBrien, chairman and Crowley-O'Brien-Walter professor of theology, titled "How Far Has the Church Come Since Vatican

II?" appeared in the November 1984 issue of St. Anthony Messenger. He also gave the following lectures: "The Mission and Ministries of the Church," "Catholic Ecclesiology: Post Vatican II Developments," and "Magisterium," all at the Vatican II Institute, Menlo Park, Calif., Feb. 15-16; "The Vision of Vatican II: The Church and the 21st Century," at Parish Alive '85, Garden City, N.Y., March 3; "The Church in the Year 2000," at St. Helena's Church, West Hartford, Conn., March 5, and "Church and Ministry: The Achievement of Yves Congar," at the Congar Symposium, Aquinas Institute of Theology, St. Louis, Mo., March 28. That lecture is scheduled to be published in Theology Digest next fall.

John L. McIntosh, program research associate in the Gerontological Education, Research and Services Center, presented two papers, titled "Suicide Facts and Myths with a Focus on Age and Sex" and "Middle-Age Suicide: Sex and Race Differences," at the annual meeting of the American Association of Suicidology, Toronto, Canada, April 18-21.

Rev. Ernan McMullin, John Cardinal O'Hara professor of philosophy, gave a convocation address at Rockford (Ill.) College on "The Origins of Science" March 13. He participated in a panel with Ilya Prigogine on "Metaphysics and Science" at the annual meeting of the Metaphysical Society of America held at Vanderbilt University, Nashville, Tenn., March 16, and gave a plenary-session paper on "Truth and Explanatory Power" at the annual meeting of the American Catholic Philosophical Association, Milwaukee, Wis., April 14.

Anthony M. Messina, assistant professor of government and international studies, presented a paper on "Policy Formation in the Post-Consensus Period: Race and Party Competition in Britain" at the annual meeting of the Midwest Political Science Association, Chicago, April 18.

Anthony N. Michel, chairman and professor of electrical engineering, presented a seminar on "Recent Results in Stability Analysis of Interconnected Systems" at Marquette University, Milwaukee, Wis., April 16.

Thomas J. Mueller, professor of aerospace and mechanical engineering, participated in the NASA/FAA Laminar Flow Aircraft Certification Workshop in Wichita, Kan., April 15-16 as a member of the Test Techniques Working Group. He also was the featured speaker at the Michiana Division, Society of Automotive Engineers Chicago Section, held at the Morris Inn April 23. His talk was titled "Smoke Visualization, The Path to Aerodynamic Discovery."

Alven M. Neiman, assistant professional specialist and assistant dean in the College of Arts and Letters, presented a paper titled "Authority in Curriculum: A Response to Farber" at the annual meeting of The Philosophy of Education Society, New Orleans, La., April 14.

Terry Ng, assistant professor of aerospace and mechanical engineering, presented a paper titled "Transonic Airfoil Experiment" at the 63rd meeting of the Supersonic Tunnel Association, Dallas, Tex., April 15-16.

Rev. Thomas F. C. O'Meara, O.P., professor of theology, gave a lecture titled "The Seminary and M. Div. Program on a College/University Campus" at a meeting of administrators and faculty of St. Thomas College and St. Paul Seminary, St. Paul, Minn., April 15.

Michael J. Radzicki, adjunct instructor in management, presented a paper titled "HOOSIER1: A Regional Policy Model for the State of Indiana" at the 16th annual Pittsburgh Modeling and Simulation Conference, held at the University of Pittsburgh, Pa., April 25.

Rev. Niels Krogh Rasmussen, O.P., assistant professor of theology, presented an invited lecture titled "Célébration épiscopale et célébration presbytérale: un essai de typologie" at a conference on Signs and Rites of the Church in the High Middle Ages, sponsored by the 33rd Study Week of the Italian Center for Studies of the High Middle Ages, Spoleto, Italy, April 11-17.

Juan M. Rivera, assistant professor of accountancy, presented a paper titled "The Accounting Profession in Spain: Apartheid or Isolationism in the European Continent" at the 1985 International Accounting Seminar held at the University of Illinois, Champaign, April 12-13.

Michael K. Sain, Freimann professor of electrical engineering, gave a seminar on "Tensor Methods for Modelling and Feedback Control of Nonlinear Systems" at the General Electric Research Center, Schenectady, N.Y., April 2.

John F. Santos, professor of psychology and director of the Gerontological Education, Research and Services Center, gave a presentation on "Cultural Aspects of Death and Dying" at the annual meeting of the Hospice Volunteers in Warsaw, Ind., April 8. He also spoke on "Elderly Relocation" at the spring conference and trade show of the Indiana Association of Homes for the Aging, Indianapolis, Ind., April 22.

Gordon A. Sargent, chairman and professor of metallurgical engineering and materials science, presented a paper titled "Effect of Microstructure on the Erosion of Steel by Solid Particles" at the Fifth International Conference on Wear of Materials, Vancouver, Canada, April 18. Coauthors of the paper were L. G. Peterson of E. I. DuPont Corp., Wilmington, Del., and H. Conrad of North Carolina State University, Raleigh.

Roger A. Schmitz, McCloskey dean and professor of chemical engineering, presented a graduate seminar titled "Thermal Imaging of Catalytic Surfaces" in the department of chemical engineering at Syracuse (N.Y.) University April 16. He also presented a graduate seminar titled "Studies of Catalytic Reaction Dynamics by Infrared Thermographic Methods" in the department of chemical engineering at Iowa State University, Ames, April 18.

James H. Seckinger, professor of law and director of the National Institute for Trial Advocacy (NITA), served as a faculty member for a NITA/ICLEF Indiana Trial Advocacy Workshop in

Indianapolis March 13-16, and for the NITA Advanced Trial Advocacy Program, Gainesville, Fla., March 16-23.

Janet E. Smith, assistant professor in the Program of Liberal Studies, presented "Plato's Use of Myth" at the Kenyon College Philosophy Symposium, Gambier, Ohio, April 11.

Nancy K. Stanton, associate professor of mathematics, participated in the Special Year on Partial Differential Equations at Rutgers University during the week of April 1-5. She gave talks on "The Heat Equation for the $\bar{\partial}$ -Neumann Problem" and on "The Heat Equation on CR Manifolds" in the Partial Differential Equations and Several Complex Variables seminar.

James P. Sterba, associate professor of philosophy, was the principal speaker at the Poynter Center Conference on "Ethics and the Military" held at Indiana University, Bloomington, March 3-4 and April 28-29. The topics of his talks were "The Moral Foundations of Just War Theory" and "The Moral Perplexities of Nuclear Deterrence." He also organized a Conference on the History of Ethics that was held at Notre Dame March 29-31. His contribution to this conference was a paper titled "From Toulmin to Rawls." Dr. Sterba also spoke on "Abortion: An Issue that Won't Go Away" at a Town Meeting in Muncie, Ind., April 18, sponsored by Ball State University.

J. Kerry Thomas, Nieuwland professor of chemistry, presented two invited talks in England: "Reactions at Interfaces" at Unilever, Port Sunlight, April 12, and "Electron Transfer Reactions in Organised Assemblies" at the Miller Conference, Widernere, April 8.

John A. Weber, associate professor of marketing, addressed the Michiana World Trade Club April 2. His topic was "World Conditions Impacting International Trade."

Howard W. Wettstein, associate professor of philosophy, commented on "Donnellan's Distinctions" by Rod Bertolet of Purdue University at the Pacific Division meetings of the American Philosophical Association, San Francisco, Calif., March 21.

William R. Wians, adjunct assistant professor of philosophy, presented "Aristotle, Demonstration, and Teaching" at the spring meeting of the Indiana Philosophical Association held at Purdue University, West Lafayette, Ind., March 30.

Charles K. Wilber, professor of economics, delivered the Faculty Day Lecture at Fordham University, New York, N.Y., Feb. 8, on "Application of the Bishops' Pastoral Letter to the International Economy." He delivered a talk on "Paradigms of Development" and was the economic adviser to an International Conference on Poverty and Justice in Latin America held in Lima, Peru, March 4-10. He gave a public lecture on "Ethics and Economics" at Purdue University, West Lafayette, Ind., March 27, and presented public lectures on "The Bishops' Pastoral Letter and the U.S. Economy" at LaSalle University, Philadelphia,

Pa., April 16, and at King's College, Wilkes-Barre, Pa., April 17.

Rev. Oliver F. Williams, C.S.C., assistant professor of management, co-chaired with John Caron the meeting "Multinational Corporate Involvement with Religious Groups," bringing together multinational executives, religious activists and academics at the Center for Continuing Education April 21-23.

Stephen T. Worland, professor of economics, delivered a lecture titled "Recent Trends in Roman Catholic Social Thought" at Calvin College, Grand Rapids, Mich., April 18.

deaths

Stephen J. Rogers, Jr., professor in the Program of Liberal Studies, died April 26 at Memorial Hospital in South Bend after an apparent heart attack. He was 51. A 1956 graduate of Notre Dame, Rogers also held master's and doctoral degrees from Harvard University; he joined the Notre Dame faculty in 1961.

administrators' notes

appointments

Timothy L. Truesdell, former assistant director of the Alumni Association, has been appointed director of development research in the Department of Development. He is a 1974 graduate of the University.

honors

Paul Rentschler, manager of compensation and benefits for the Personnel Department, has been appointed chairman of the Indiana State Chamber of Commerce Subcommittee on Coalitions. The purpose of the subcommittee is to assist communities in Indiana in organizing health-care coalitions and to facilitate the exchange of information on benefit design and administration.

activities

Sr. Elaine DesRosiers, O.P., Director of Educational Media, co-chaired the South Bend Symphony Orchestra's 1985 Docent Program. She wrote and produced a slide/tape presentation and trained 36 volunteers who prepared 4,000 fourth graders in 71 local schools for the annual concert for fourth graders on April 25th.

Charles A. Geoffrion, faculty research consultant in the Institute for Scholarship in the Liberal Arts, was a guest speaker at the annual meeting of the Indiana Parks and Recreation Association April 15. The topic of his presentation was "Municipal Finance and the Grants Process: Linking Public Agencies with Private Funding."

William J. Hickey, Jr., director of University food services, and Suzanne Farnia, manager of marketing and nutritional services, gave a presentation on "Health and Job Conflicts" to the Miles Laboratory Run Club at the Elkhart Y.M.C.A. April 1.

Robert M. Zerr, Director of Environmental Health and Safety, gave a presentation on "Computer Applications in Chemical and Radioactive Waste Management" at the annual meeting of the Hoosier Chapter of the Health Physics Society, which was held at Notre Dame April 12.

documen- tation

official university academic calendar for 1985-86

Fall Semester 1985

Aug. 23	Friday	Orientation, registration and enrollment for all new upperclass and graduate students.
Aug. 24-26	Sat thru Mon	Orientation and counseling for freshmen.
Aug. 26	Monday	Enrollment for all continuing students.
Aug. 27	Tuesday	Classes begin at 8 a.m.
Sept. 4	Wednesday	Latest date for all class changes.
Sept. 22	Sunday	Mass. Formal opening of school year (subject to change).
Oct. 17	Thursday	Midsemester reports of deficient students are due in Registrar's Office.
Oct. 19-27	Sat thru Sun	Midsemester vacation.
Oct. 28	Monday	Classes resume at 8 a.m.
Nov. 5	Tuesday	Last day for course discontinuance (may be subject to change).
Nov. 7-14	Th thru Th	Advance registration for spring semester 1986.
Nov. 28-Dec. 1	Th thru Sun	Thanksgiving holiday begins at 12:30 p.m. on Wed., Nov. 27.
Dec. 2	Monday	Classes resume at 8 a.m.
Dec. 13	Friday	Last class day.
Dec. 14-15	Sat & Sun	Study days (no examinations).
Dec. 16-20	Mon thru Fri	Final examinations.
Dec. 26	Thursday	<u>Absolute deadline</u> for delivery of all grades to Registrar.

CLASS MEETINGS

MWF	43	MTuF	43
MW	29	MThF	41
MF	28	TT	29
MTuW	44	TWT	44
MTT	42	TTF	42
MWTh	42	TuF	29
MTh	27	TWF	44

NUMBER OF CLASS DAYS

	Mon	Tues	Wed	Thurs	Fri	Total
Aug	0	1	1	1	1	4
Sept	5	4	4	4	4	21
Oct	3	4	4	4	3	18
Nov	4	4	4	3	4	19
Dec	2	2	2	2	2	10
Total	14	15	15	14	14	72

(N.B., Wednesday p.m. classes have one less meeting than shown above due to Thanksgiving holiday.)

Home games: Mich. State - Sept. 21; Army - Oct. 19; So. Cal. - Oct. 26; Navy - Nov. 2; Mississippi - Nov. 9; LSU - Nov. 23.

Home Games affected by midterm break: Army - Oct. 19; So. Cal. - Oct. 26.

Spring Semester 1986

Jan. 13	Monday	Orientation, registration and enrollment for all new students.
Jan. 14	Tuesday	Enrollment for all continuing students.
Jan. 15	Wednesday	Classes begin at 8 a.m.
Jan. 23	Thursday	Latest date for all class changes.
Feb. 26-Mar. 5	Wed thru Wed	Enrollment reservations for the fall semester 1986-87.
Mar. 6	Thursday	Midsemester reports of deficient students are due in Registrar's Office.
Mar. 22-Apr. 1	Sat thru Tues	Midsemester and Easter vacation.
Apr. 2	Wednesday	Classes resume at 8 a.m.
Apr. 4	Friday	Last day for course discontinuance (may be subject to change).
Apr. 17-24	Th thru Th	Advance registration for fall semester 1986-87 and for the summer session 1986.
Apr. 30-May 2	Wed thru Fri	Room reservations for the fall semester 1986-87.
May 5	Monday	Last class day.
May 6	Tues	Study day (no examinations).
May 7-12	Wed thru Mon	Final exmainations (no examinations Sunday).
May 15	Thursday	<u>Absolute deadline</u> for delivery of all grades to Registrar for students who are graduating.
May 16-18	Fri thru Sun	Commencement weekend.
May 19	Mon	<u>Absolute deadline</u> for delivery of all other grades to Registrar.

CLASS MEETINGS

NUMBER OF CLASS DAYS

MWF	44	MTuF	42		Mon	Tues	Wed	Thurs	Fri	Total
MW	29	MThF	44	Jan	2	2	3	3	3	13
MF	29	TT	28	Feb	4	4	4	4	4	20
MTuW	42	TWT	43	Mar	3	3	3	3	3	15
MTT	42	TWF	43	Apr	4	4	5	4	4	21
MWTh	44	TuF	28	May	1	0	0	1	1	3
MTh	29	TWF	43	Total	14	13	15	15	15	72

U.N.D. SUMMER SESSION CALENDAR DATES

	1985	1986
Registration	June 17	June 16
Commencement	Aug. 2	Aug. 1

architecture symposium honorary degrees



The University of Notre Dame
confers the degree of
Doctor of Fine Arts, honoris causa,
on

the 1972 Gold Medalist of the American Institute of Architecture. Born in Italy and educated in architectural engineering at the University of Rome, he came to the United States in 1923 as a graduate fellow at Cornell University. He began his architectural practice in Portland, Oregon, becoming one of the Northwest's leading architects before beginning a fourteen-year term as dean of the architecture school at Massachusetts Institute of Technology. Soon recognized as a national spokesman for architecture, he served as consultant on large-scale urban projects such as the Pan-American Building in New York City and the Bank of America in San Francisco. All his buildings express a concern for function and location, not through historical references, but through a process of abstraction of traditional forms. His work exemplifies his role as a mediator and creator of a new synthesis for urban and natural landscapes. On

Pietro Belluschi
Portland, Oregon



The University of Notre Dame
confers the degree of
Doctor of Fine Arts, honoris causa,
on

an architect, historian, and critic who was one of the earliest proponents in the United States of the International Style. He aligned himself with Mies van der Rohe both in theory and in practice, writing a biography of the German master in 1947 and collaborating with him in the design of the Seagram Building in New York in 1956. Since then, each of his buildings has broken new ground in the definition of architectural style spatial quality, and technological expression. The New York State Theatre at Lincoln Center, the AT&T Building in New York, and South Bend's own Century Center represent only a few of his fine designs -- some done in partnership with Notre Dame graduate John Burgee. Winner of the American Institute of Architecture Gold Medal in 1978, he is now moving in yet a new postmodern direction toward the use of historical imagery, reflecting a commitment to human concerns and symbolic ideals. On

Philip Cortelyou Johnson
New York, New York

academic convocation address for "a salute to architecture"

(Following is the text of the address delivered by John H. Burgee, Fellow of the American Institute of Architects and an architecture graduate of the University, at the Academic Convocation for "A Salute to Architecture," held April 9 to mark the establishment of the graduate program in architecture at Notre Dame.)

Father Hesburgh, Chairman Carney, Provost O'Meara, President Paddy, Dean Schmitz, Chairman Amico, Esteemed Honorees, Distinguished Faculty, and Guests,

I am gratified to be called upon to address you today -- a day dedicated by this great University to the importance of architecture and architects. I am extremely proud to be asked to take part in my University's salute to my profession and to share this platform to pay honor to two of its greatest practitioners.

I recall that one of my very first assignments in architecture here was to write a short paper entitled "What Is an Architect?" For someone who was just embarking on what would be a total way of life it should have been an easy assignment. It was not! What is an architect? He is a person who builds - Yes, but so does a brick mason or a carpenter or

so many others, but the mere act of erecting a building does not make it "architecture." A building is made up of many technical pieces. Technology, of course, must be mastered before one can design or build a building. But the mastering of technical abilities alone is not what makes a building "architecture." What, then, must an architect bring to the building process to transform a structure into a work of art? Since the very first efforts by man to build, this rare quality was desperately sought, and judging from current times and today's discussion, fiercely disputed.

Building is a fundamental fact of nature. Animals, birds, and insects build to sustain themselves in the most functional manner and with incredible technology. But man alone in his building added beyond pure usefulness. To be sure his first structures were for shelter; caves or rough posts holding up crude sod roofs - but even here in the caves of earliest man he added beautiful paintings and drawings giving a new dimension to the purely necessary.

In prehistoric times, we find some of the greatest technology in building. In Egypt and Mesopotamia, man built great pyramids of such height and massiveness, that we have not yet deciphered the technology developed to build them. These were buildings whose "only" function was to house the pharaoh's dead body on its trip to the afterworld and immortalize the pharaoh's buildings built strictly for a spiritual purpose. We see from all of man's buildings, whenever or wherever, his attempt to satisfy some other need -- an overwhelming desire for a quality beyond just usefulness.

The Greeks of course built great temples to their gods; buildings only the anointed were allowed to enter, but which symbolized for this highly developed civilization the relationship between man and divine being.

The Romans' great buildings were monuments to gods, emperors, and conquering warriors. Consider the incredible Mayan temples erected atop great pyramids or the enormous pyramids built at Teotihuacan for religious sacrifices. In fact, from studying their buildings, much can be deciphered about past cultures, even those that left no written tradition. We can learn about the hierarchy of their social system, their religious practices, their commerce, their daily life -- in fact, just about everything! Buildings become the signature of a civilization. It would be interesting to look at our signature through the eyes of an archaeologist several hundred years from now.

In the Middle Ages, religious fervor ran very high and great effort was put into religious buildings to make them as beautiful as possible -- and thus more heavenlike. In Gothic times, the most important building was the church. And the churches they built were huge -- big enough to house those on pilgrimages as well as to be a place of worship for the town's people and most important, to be a symbol of their faith. In fact, they were so large they often could hold several times the population of the community they served. Built higher and higher -- more heavenward and uplifting -- inventing and stretching technology to fit the desire. In fact, pushing technology so far that some collapsed during construction, only to be rebuilt immediately.

In the Renaissance and Baroque periods the Church emerged as the great patron of all the arts. The popes and their powerful families supported the artists and architects in building great monuments, churches, and palaces. And, of course, they commissioned St. Peter's and envisioned it to be "the greatest building of all time -- the Icon of Christianity."

A great wrenching change occurred with the onslaught of the Industrial Revolution. The idea of mass production in factories changed not only man's way of life but his perception of life. The availability of large quantities of iron changed forever building technology and consequently building appearance. This industrialization led to the distinction between the technician, that is the engineer, and the architect or artist. Indeed, many thought a new architecture would emerge to save them from what was then thought of as the sterility of the past. Buildings of iron and glass became great technical inventions, many inherently beautiful but often, unfortunately, without any aesthetic consideration. Even the Eiffel Tower, now the symbol of Paris, was erected as an engineering feat and was thought by many at the time to be an ugly blot on the beautiful, classic city.

The Ecole des Beaux Arts, founded in 1706, continued for over 200 years in its attempt to retain the classic ideals of architecture. Early in this century, however, the Ecole practices seemed hopelessly out of date with modern ideas. The Bauhaus was established in Germany about this time and sought to define and solve modern problems. Here, they believed that technology would solve not only building problems, but somehow also set straight the social imbalance of the time. This dedication to technology led to the feeling that decoration or any element of building added merely to transcend the

utilitarian was wrong, even evil. Beauty was not considered a virtue unless it derived from the functional, utilitarian nature of an object or building. History was shunned and stricken from the curriculum as being useless and inhibiting.

With the upheaval of Nazism, many of the teachers and practitioners of the Bauhaus fled to this country where they had a profound effect on our architectural education and on our architecture. It was first exhibited in this country at the Museum of Modern Art. The show was organized, I might add, by our new Dr. Johnson, and named The International Style in the book he produced at the time with Henry Russell Hitchcock. The thought of an international style, one which would fit anywhere and be adaptable to any use, fit so well the thinking of an industrial, mass-producing society that it was widely received and had greater influence on our architecture than any other single discipline. I might point out (somewhat cynically perhaps) that it did not hurt the Modern Movement that a reasonable facsimile of its great buildings could be produced very, very economically. The speculators liked this quality particularly and readily accepted modern architecture.

It is interesting to note that the words used to describe buildings during this period were all very virtuous and high-minded. If a building was considered good, it was called strong, truthful, clean, or maybe straightforward, or pure -- however, never beautiful! Those judged not good, of course, were false, unclear, banal, confused, dumb, and unvirtuous.

The trouble was that everything became the same. We began to lose a sense of identity. All cities began to look much alike. The premise of the movement did not allow for change. The search for sameness was the goal, but too much sameness produced boredom. In 1967, Bob Venturi wrote a book, Complexity and Contradiction, pointing out that more diversity was necessary and that we were losing much richness in our buildings and in our cities. It startled or shocked most of us, but it started us thinking. I should add that the great groundswell of the preservation movement swept the country soon after this and made us wonder if some of our older buildings were simply better than many of the newer ones.

This brings us to our present situation: a questioning time, an opening up of new thoughts, a pluralism. There are now many directions -- named various styles each week by the journalists -- but somehow coexisting. There is no great struggle to impose a single dictum or a single rightness. Of course, there is discourse and argument but that is why we have symposiums as we have had today. What better way to stimulate the ongoing search for a better-built environment?

One story perhaps can illustrate the point. It involves both of our new doctors and myself. There was a competition, you will recall we heard quite a little about it today, for the Portland City Services Building -- Philip Johnson and I were advisors to the Jury. There were three competitors: Arthur Erickson, who proposed a competent, predictable, modernist, mirrored-glass box; Aldo Giurgola suggested a very competent, interesting -- if fairly standard -- precast building; and Michael Graves, whose scheme I do not have to describe, I'm sure, but obviously the most daring and with the greatest individuality and identity. We recommended and the jury chose Graves as you know. Pietro Belluschi, a resident of Portland, led the opposition most violently. Johnson has since pronounced the finished building "not Michael's best." And Belluschi, while not exactly recanting, was quoted in the local press as finally saying, "Maybe it's time for a change." Diplomatically, I agree with both. It may not be Michael's best and it is certainly time for a change from the many civic buildings that have been built in the last 50 years that are indistinguishable from their surrounding speculative office buildings. When you go to Portland you can certainly pick out its new Civic Building.

It is an exciting hanging climate we are in. Why not a return to symbolism, contextualism, regionalism, historicism. The words are not important, but these are the kinds of qualities, not pure functionalism or technology, which make our buildings "architecture."

It is meaningful to have Notre Dame, the first Catholic university in this country to offer architectural courses 87 years ago, devote this day as a "Salute to Architecture," thus reaffirming the need to have a special presence of architecture in its curriculum. We honor Philip Johnson and Pietro Belluschi for their achievements in building a better world and in this way encourage students and all architects to be aware of their special responsibility in building the places in which we live, work, worship, and play. I welcome them and am extremely gratified to have them join us, and hope they will be proud to be a part of this fine university. It is a special place that proudly has as its symbol a dome of gold -- not exactly a functional necessity for a school, yet known throughout the world to represent Notre Dame.

university libraries minutes

february 11, 1985

The minutes of the meeting of Dec. 3 were approved as distributed.

Miller reported that his Administrative Assistant, Jacqueline Lewellen, has gone on medical leave and is not expected to return. A new secretary for F.C.U.L. should be in place by next meeting. Miller announced a library-wide Planning Day scheduled for March 21. Further information on this important element in the process for reviewing and revising the Five-Year Development Plan will be forthcoming. He encouraged all members of F.C.U.L. to participate in this important event if at all possible. The chairman echoed these same sentiments.

The Committee then turned its attention to a diary report from Chau Le on the annual meeting the Center for Research Libraries held in Chicago on January 17 and 18. Subsequent discussion suggested the importance of advising F.C.U.L. in advance of the agenda for Center for Research meetings. It was also suggested that because of the important role of the Center, the question of active F.C.U.L. involvement in the Center's Council should be considered. Note was made of Professor Le's comment that efforts should be made to see that CRL services are widely known to the Notre Dame community. Miller mentioned a variety of techniques which had been used in the past, and agreed to append to the minutes a brief inventory of those services, to help remind the teaching/research faculty of this important facet of University Libraries.

The Committee then turned its attention to the 1985-86 budget materials distributed. Miller reiterated that while the total funding for the year was less than had been originally requested, University support increased very substantially (19%). This is particularly noteworthy, given the general 5% increase made available for most budget categories. In addition, funding for an increase in student assistance was received. Overall, Miller was pleased with the strong support received from the University, particularly in the light of current intentions to continue special funding increases in the future, if possible. Miller also noted the substantial increase in endowment support in recent months. In this connection, he indicated that midyear increases for some budget categories might be possible if the trend continues. In response to a question, Miller indicated that the proportion of library expenditures devoted to materials was considerably above the median figure for ARL Libraries, as was the ratio of materials to salary and wage expenditures. He also indicated, however, that the precise components of these various categories varied from institution to institution, as did other special circumstances affecting these ratios. The Committee urged that in future years it be involved as early as possible in the very preliminary discussions on budgetary priorities. Special note was made of the growing importance of the approval programs.

The Chairman then raised the question of the current status of the Library faculty and their relations with the teaching/research faculty. After a brief discussion the motion was passed, asking for the preparation of a "white paper" on this subject, to be presented to F.C.U.L. sometime in the fall of 1985. Miller agreed that this would be done and probably by a committee of the library faculty.

The meeting adjourned at 5:07 p.m.

appendix

THE CENTER FOR RESEARCH LIBRARIES: A LIBRARY FOR LIBRARIES

The Center for Research Libraries is a nonprofit organization, operated and maintained by its participating member institutions for the sole purpose of increasing the library and information research resources available for scholarly use.

Your institution is among Center supporters. This enables you to borrow (through your library's interlibrary loan services), any materials owned by the Center for as long as needed to support current research.

The Center's library resources are too extensive and diverse to be easily summarized, although some major categories within the collection include: hundreds of thousands of reels of microform and facsimile copies of ARCHIVAL RECORDS; over 600,000 FOREIGN DOCTORAL DISSERTATIONS; numerous foreign, U.S., and State GOVERNMENT DOCUMENTS; more than 14,000 current SERIAL TITLES covering all fields of study, and access to several thousand more

through the Journals Access Service; a large collection of MONOGRAPHS, including over 30 microform projects consisting of several thousand titles such as the American Architectural Books before 1895 and European Books before 1601; backfiles of over 3,600 NEWSPAPER TITLES (foreign and domestic); and AREA STUDY MATERIALS from various parts of the world.

A significant portion of the collection is cataloged and accessible through a microfiche edition of the Center's card catalog. Copies of the catalog are available for use at all participating libraries. Since 1981, the Center has entered all bibliographic records for current cataloging into the OCLC online system. Retrospective cataloging records, including those for serials and U.S. newspapers, have been added to the data base to improve further the access provided to these resources. Soon, equal access to these holdings will be provided through the RLIN online system.

For those collections that are not cataloged, such as foreign doctoral dissertations, Center holdings are comprehensive enough that a reader should request any material within scope. A detailed description of these uncataloged materials is contained in the Center's Handbook -- located in your library's reference and/or interlibrary loan departments.

The Center provides several ways that your library can transmit quickly requests for materials. Resources loaned usually reach their destination within a few days from the time a request is submitted.

For additional information on the Center and its collections and services, please consult your library's interlibrary loan and reference departments.

advanced studies

notes for principal investigators

Fringe Benefits for Staff Employees

This notice supersedes the notice on page 498, Notre Dame Report No. 14, 1984-85.

The University provides Blue Cross - Blue Shield (BC-BS) group hospitalization for all full-time staff employees. Over a twelve-month period, the overall percentage rate can vary considerably among individuals. Consequently, OAS-DRSP suggests that until further notice, an "exact" calculation be used for staff employee benefits in proposal budgets. The following rates should be used for this calculation:

Social Security

7.05 percent of salary requested up to \$39,600

Blue Cross - Blue Shield

\$53.00 per month for single coverage - for part-time employees who work at least 30 hours per week and prorated for salary requested for full-time employees

\$130.00 per month for family coverage - for part-time employees who work at least 30 hours per week and prorated for salary requested for full-time employees.

information circulars

Additional information on all circulars listed may be obtained by calling Extension 7432. Please refer to the circular number.

social sciences

See complete information regarding the information circulars listed below under the category of Science.

Social Science Research Council
Postdoctoral Research and Training in International Peace and Security Studies -
MacArthur Foundation Fellows in International Security 1985-86
No. FY85-461

science

Department of Energy
Research Programs

No. FY85-454

Program:

The Department of Energy supports research and development programs in a wide range of activities - from studies on the fundamental nature of matter and energy to exploratory and advanced research on the development of new technical approaches leading to new energy technologies. Unsolicited proposals are supported through the DOE programs listed below. In addition to those listed, DOE supports extramural research through its Office of Nuclear Energy, Office of Civilian Radioactive Waste Management and the Office of Defense Programs. A summary of DOE programs and policies is available in the Guide to Energy R&D Programs For Universities and Other Research Groups, prepared by the Office of Energy Research. The Guide can be obtained from the Division of University and Industry Programs, Dr. Richard E. Stephens, (202) 252-8949. There are usually no specific dates for the submission of unsolicited proposals, but applicants should allow a minimum of six months in advance of the desired period of support. Some of the programs listed (e.g., Biological Energy Research) may have deadlines for receipt of applications. Further information on the submission of unsolicited proposals can found in the DOE booklet entitled, "Guide for the Submission of Unsolicited Proposals" (DOE/MA-0095, June 1983).

- University Reactor Fuel Assistance Program: Provides financial support to colleges/universities to maintain nuclear research and training reactors, and to promote reactor sharing.

- University Research Instrumentation Program: Provides financial assistance for the purchase of sophisticated, state-of-the-art research instrumentation which costs about \$100,000 and above. A program solicitation is released annually.

- Energy Education and Training Program: Provides support for pre-college oriented activities, such as the Pre-Freshman Engineering Program (PREP).

- Basic Energy Sciences: Research within this Office is sponsored in the following seven subprograms: Materials Sciences, Chemical Sciences, Nuclear Sciences, Engi-

neering, Mathematical and Geosciences, Biological Energy Research, Carbon Dioxide Research, and Advanced Energy Projects.

- High Energy Physics Program: This program seeks to achieve a comprehensive theoretical and experimental understanding of the fundamental constituents of matter and energy, the basic forces that govern their interactions, and the transformation of matter and energy. The program includes the Outstanding Junior Investigator Awards which enable tenure-track scientists at universities to begin independent research projects.

- Nuclear Physics: This program is the major federal research effort concerned with advanced experimental and theoretical studies of the interactions, structure, and other fundamental characteristics of atomic nuclei. It consists of four major components: Medium Energy Nuclear Physics, Heavy Ion Nuclear Physics, Low Energy Nuclear Physics, and Nuclear Theory.

- Magnetic Fusion Program: The primary goal of this program is to develop the technology for safe, economical and environmentally acceptable use of fusion power for the generation of electricity and to develop and evaluate other applications of the fusion process, including the production of fissile material, synthetic fuels and industrial process heat. The program consists of four research areas: Applied Plasma Physics, Development and Technology, Mirror Confinement Systems, and Toroidal Confinement Systems.

- Program Analysis: This Office monitors DOE's research and development programs in order to determine if there are any duplications or gaps in programs. Potential areas for research include assessments of foreign energy technology research status and directions, energy technology research need dictated by environmental or health constraints and research needs associated with disposal of hazardous wastes (non-radioactive) from energy systems.

- Conservation Program: The Energy Conservation R&D Program consists of the following areas: Building Energy R&D, Energy Conversion and Utilization Technologies, Electric Energy Systems, Energy from Municipal Waste, Energy Storage Systems, Industrial Programs, and Vehicle and Engine R&D.

- Renewable Energy Program: This program consists of the following areas: Active Heating and Cooling, Biomass Energy Technology, Geothermal and Hydro-electric Energy Technologies, Ocean Energy Technology, Passive and Hybrid Solar Program, Photovoltaic Energy Technology, Solar Thermal Energy Technology, and Wind Energy Technology.

- Fossil Energy Program: The DOE fossil energy activity includes 13 major programs grouped under six offices: Advanced Process

Technology, Advanced Research and Technology Development, Coal Liquefaction, Coal Utilization/Combustion Systems, Control Technology and Coal Preparation, Enhanced Oil Recovery, Fuel Cells, Heat Engines, Magnetohydrodynamics, Oil Shale, Surface Coal Gasification, and Unconventional Gas Recovery/Underground Coal Gasification.

For Further Information Contact:

Department of Energy
(Personnel Locator)
Forrestal Building
1000 Independence Avenue, SW
Washington, DC 20585
(202) 252-5000

(From 1985 ARIS)

**National Aeronautics and Space Administration
Guest Investigator Program**

No. FY85-456

Program:

NASA is accepting applications for participation in the Guest Investigator Program on the Third High Energy Astronomy Observatory (HEAO-3) mission. HEAO-3 contained a high spectral resolution gamma-ray spectrometer, a cosmic-ray heavy nuclei experiment, and an isotopic composition cosmic-ray experiment. The overall objective of the mission is to study the processes of nucleosynthesis in space, as revealed by the properties of the cosmic-ray and gamma-ray flux. Total support per year is approximately \$100,000. A guest investigator can participate in the program in one of three categories.

-(1) Guest Observations: A Guest Investigator would propose the study of a specific object, region, or research problem in particle astrophysics utilizing data in the HEAO data base, and the relevant data would be made available to him. The data from the instruments involved would be processed by the respective HEAO Investigators through their existing programs. Funds for the analysis of guest observation data would be provided to the Guest Investigator's institution.

-(2) Cooperative Research: A Guest Investigator would collaborate directly with HEAO Investigator and would utilize a mutually-agreed-upon data set from the experiment. The collaboration would usually require a residence at the institution of the HEAO Investigator, normally limited to a period of less than one year.

-(3) Correlative Studies: Astrophysical data obtained by a Guest Investigator from objects or phenomena observed by HEAO would be used in collaboration with one or more HEAO Investigators to provide a more complete data base from which interpretations could be derived.

For Further Information Contact:

National Aeronautics and Space
Administration
Office of Space Science and Applications
Astrophysics Division
High Energy Astronomy Observatory
Louis J. Kaluzienski
400 Maryland Avenue, SW
Washington, DC 20546
(202) 453-8547

(From 1985 ARIS)

**National Aeronautics and Space Administration
Unsolicited Research**

No. FY85-455

Program:

NASA encourages the submission of unique and innovative unsolicited proposals which fall within its mission. Although there are no specific deadline dates for the submission of most unsolicited proposals, proposals should be submitted four to six months in advance of the desired starting date. Contact with NASA technical personnel prior to proposal submission is encouraged to determine if preparation of a formal proposal is warranted. For information on preparation of a proposal, obtain NASA brochure, "Guidance of the Preparation and Submission of Unsolicited Proposals," 1984 edition, from the Office of Procurement, Code H, NASA, Washington, DC 20546. Areas of interest within the Office of Space Science and Applications are the following: Astrophysics, Communications, Earth Science and Applications, Life Sciences, Microgravity Sciences and Applications, Solar System Exploration, and Space Telescope Development.

For Further Information Contact:

National Aeronautics and Space
Administration
Office of Space Science and Applications
(Personnel Locator)
400 Maryland Avenue, SW
Washington, DC 20546
(202) 453-1000

(From 1985 ARIS)

**Social Science Research Council
Postdoctoral Research and Training in International Peace and Security Studies—MacArthur
Foundation Fellows in International Security
1985-86**

No. FY85-461

Program:

Two-year fellowships carrying stipends of \$30,000 per year are available to support advanced training and research in international peace and security studies. Additional funds are available for the payment of fees at institutions hosting a fellow's training or research. Eligible

applicants are scholars who, when the fellowship begins, will hold an earned Ph.D. or its equivalent in any recognized field of physical and biological sciences or the social/behavioral sciences, including foreign area studies. Scholars may be of any nationality or from any country. Preference will be given to those in the early stages of their research careers. Fellowships include support for one year of advanced training and one year of research applying knowledge gained during the training year. Training and research may be conducted at an institution of the fellow's choice. Predoctoral fellowships are also available, providing a stipend of \$15,000 per year for two years. Further information may be obtained from the Council at the address below.

Deadline:

July 31, 1985

For Further Information Contact:

Social Science Research Council
Fellowship Program in International
Peace and Security Studies
605 Third Avenue
New York, NY 10158
(212) 661-0280

(From 1985 ARIS)

engineering

See complete information regarding the information circulars listed below under the category of Science.

Department of Energy
Research Programs
No. FY85-454

National Aeronautics and Space Administration
Unsolicited Research
No. FY85-455

National Aeronautics and Space Administration
Guest Investigator Program
No. FY85-456

general

**American Institute of Indian Studies
Fellowship Programs**

No. FY85-460

Program:

AIIS supports a number of different fellowship programs for research to be conducted in India. U.S. citizens, or resident aliens engaged in research or teaching at American colleges or universities, are eligible to apply. Fellows from non-member institutions are subject to administrative overhead charges: for Junior Fellows, \$400; for Senior and all postdoctoral fellowships,

\$750. This is not an application fee and is incurred only when a fellowship is awarded. The following fellowships are available in 1986:

- Senior Research Fellowships: Awarded to academic specialists in Indian studies who possess the Ph.D. or equivalent. Award periods range from three to ten months, during which time each Fellow will be formally affiliated with an Indian University.

- Professional Development Fellowships: A limited number of fellowships are awarded to scholars who are not academic specialists in Indian studies. Proposals in this category normally should have a substantial research component and the projected results should be clearly defined. Award periods range from three to ten months.

- Translation Projects: The AIIS, the Smithsonian Institution and the National Endowment for the Humanities have established a cooperative program to support translations of Indian texts into English. Signify interest in this grant when requesting application materials.

Deadline:
July 1, 1985*

For Further Information Contact:

American Institute of Indian Studies
Foster Hall
University of Chicago
1130 East 59th Street
Chicago, IL 60637
(312) 962-8638

*The earliest possible departure date for India for awardees is June, 1986.

(From 1985 ARIS)

**Department of the Army
Unsolicited Research Proposals**

No. FY85-452

Program:

The U.S. Army Research Office accepts unsolicited research proposals in the following scientific disciplines: Biosciences, Chemistry, Electronics, Engineering Sciences, Geosciences, Mathematics, Metallurgy and Materials, and Physics. The ARO strongly encourages informal discussions and submission of a brief outline of the proposed research prior to the submission of a formal proposal. A complete description of each of the above areas of interest can be obtained in the U.S. ARO "Program Guide," February 1985. For information concerning the format of proposals, evaluation procedures, reporting requirements, etc., request a copy of the ARO brochure, "Guide for Unsolicited Research Proposals," which includes proposal forms. These two guides can be obtained from the address given.

For Further Information Contact:

Department of the Army
U.S. Army Research Office
Dr. Robert E. Weigle, Director
P.O. Box 12211
Research Triangle Park, NC 27709-2211
(919) 549-0641

(From 1985 ARIS)

**Department of Defense
Air Force Research Science Program**

No. FY85-451

Program:

The AFOSR selects research to support from unsolicited proposals submitted by qualified scientists and engineers who are doing basic research in one of twelve disciplines: Physics, chemistry, mathematics, electronics, materials, mechanics, energy conversion, terrestrial sciences, atmospheric sciences, astronomy and astrophysics, biological and medical sciences, and human resources. Specific research interests of the AFOSR are the following: Aerospace Sciences, Chemical and Atmospheric Sciences, Electronic and Material Sciences, Life Sciences, Mathematical and Information Sciences, and Physical and Geophysical Sciences. Further information including descriptions of research areas, proposal format, and specific contracts can be found in the AFOSR "Research Interests," "Proposers Guide," and "Air Force Research Directory," publications available from AFOSR/PKO, Building 410, Bolling AFB, DC 20332-6448.

For Further Information Contact:

Department of Defense
Department of The Air Force
Air Force Office of Scientific Research
Bolling Air Force Base
Washington, DC 20332

(From 1985 ARIS)

**Department of Education
Women's Educational Equity Act Program**

No. FY85-450

Program:

This program issues awards to public agencies, nonprofit private agencies, organizations, institutions, and individuals to develop educational materials and model programs designed to promote women's educational equity. These materials and programs are developed for replication throughout the United States. Appropriations in the amount of \$6 million will be available for the WEEA Program in FY 1985. Approximately \$4,222,500 will be made available for new general grants, \$655,000 for new challenge grants, and \$512,500 for non-competing continuations. Applications that focus on the particular problems of women in mathematics and science

programs are particularly requested. An application under this program must be marked Attention 84.083A for general grants; Attention 84.083B for challenge grants; and Attention 84.038C for non-competing continuations.

Deadline:
May 28, 1985

For Further Information Contact:

Department of Education
Office of Elementary and Secondary
Education
Women's Educational Equity Act Program
Attn: Mrs. Rosemary Clifford-Wilson,
Chief
Room 2017, FOB-6
400 Maryland Avenue, SW
Washington, DC 20202
(202) 245-2465

(From 1985 ARIS)

**Department of the Navy
Research and Technology Programs**

No. FY85-453

Program:

Any qualified scientist, institution, or organization may present a research proposal to the Office of Naval Research. The majority of proposals is unsolicited. Technical correspondence, including preliminary inquiries for the purpose of ascertaining government interest, preproposal explorations, technical inquiries, or research descriptions, prior to the submission of a formal proposal, are encouraged. Formal or informal proposals should be addressed to the appropriate division.

- Mathematical and Physical Sciences: This directorate sponsors research in mathematics; statistics; probability; operations research; theoretical computer science; atomic and molecular physics; plasma physics; lasers and their applications; electrooptics; radiation transport; radiation interaction; surface and interface physics; physical acoustics; chemical materials; surface chemistry; electrochemistry; and chemical analysis.

- Environmental Sciences: This directorate sponsors research in physical oceanography; chemical oceanography; ocean biology; coastal sciences; arctic research; and ocean and underwater acoustics.

- Engineering Sciences: This directorate sponsors research in the physics, chemistry, and processing science of metals, ceramics, glasses, composites, and related solids; fluid mechanics; solid mechanics; propulsion and energetics; artificial intelligence; robotics and advanced automation; software engineering; computer architecture; and user-machine interface.

- Life Sciences: This directorate sponsors research in microbiology; environmental biology; biochemistry; biophysics; physiology and bio-electromagnetics; personpower; personnel; training; and human factors engineering.

For Further Information Contact:

Department of the Navy
Office of Naval Research
800 North Quincy Street
Arlington, VA 22217-5000

(From 1985 ARIS)

NOTE: For more detailed information request the ONR brochure entitled, Contract Research & Technology Program. A new edition will be available in May.

**The German Marshall Fund of the United States
and The Institute for European Environmental
Policy**

Fellowship Program for U.S. Environmentalists

No. FY85-457

Program:

Up to five fellowships (consisting of a monthly stipend of \$1,500, one transatlantic round-trip airfare, and reasonable travel expenses within Europe) are available for environmentalists interested in gaining first-hand knowledge of selected environmental policies of European countries. Fellows will spend up to two months in two or three European countries and will examine specific issues of environmental policymaking which are of direct relevance to their work in the United States. Eligible applicants are individuals engaged full-time in environmentally oriented activities under the auspices of a public or non-profit institution concerned with environmental issues. Applicants must have had professional training and experience in one or more of the following environmental issue areas: Soil/Hazardous Waste Management, Air Pollution, or Control of Toxic Industrial Chemicals in the Environment. Applicants must have good working knowledge of another language (French, German, Italian, or Spanish) in addition to English.

Deadline:
June 14, 1985

For Further Information Contact:

The German Marshall Fund of the
United States and
The Institute for European Environmental
Policy
Marianne Laïs Ginsburg
11 Dupont Circle, NW
Suite 900
Washington, DC 20036
(202) 745-3950

(From 1985 ARIS)

**Lighting Research Institute, Inc.
Request for Proposals in Lighting Research**

No. FY85-462

Program:

The Lighting Research Institute, Inc., a not-for-profit organization, sponsors basic and applied research and development for all forms of lighting. Proposals are being sought for the following research areas with an emphasis on those areas which have direct human application: photobiology; vision; systems application (engineering, physical sciences, and economic research in lighting systems); psychology, and other targeted research topics (e.g., effects of lighting on productivity, V.D.T., etc.) For further information and a copy of the Institute's research agenda, proposal application contact the address below.

Deadline

July 15, 1985

For Further Information Contact:

Lighting Research Institute, Inc.
Richard L. Vincent
Program Manager
345 East 47th Street
New York, NY 10017
(212) 705-7918

(From 1985 ARIS)

**National Science Foundation
U.S.-Republic of Ireland Cooperative Science
Program**

No. FY85-458

Program:

Proposals for cooperative research projects, long-term research visits, and joint seminars between U.S. and Irish scientists are accepted at any time.

For Further Information Contact:

National Science Foundation
Industrial Countries Section
Ms. Christine Glenday
1800 G Street, NW
Washington, DC 20550
(202) 357-7554

(From 1985 ARIS)

**National Science Foundation
U.S.-Yugoslav Joint Board Program for Scientific
and Technological Cooperation**

No. FY85-459

Program:

Under this program NSF provides 50% of financial support for projects for scientific research and related activities of mutual

benefit to the U.S. and Yugoslavia. All financial aid under this program is provided in Yugoslav currency. No dollar support for research in the U.S. is available, but the Fund does support international transportation and subsistence expenses for U.S. investigators.

For Further Information Contact:

National Science Foundation
Industrial Countries Section
Dr. Gerson S. Sher
Room 1214
1800 G Street, NW
Washington, DC 20550
(202) 357-7494

(From 1985 ARIS)

**current publications and
other scholarly works**

Current publications should be mailed to the
Division of Research and Sponsored Programs,
Room 314, Administration Building.

COLLEGE OF ARTS AND LETTERS

Art, Art History and Design

Kinsey, Marjorie S.

M.S. Kinsey. 1985. Review of G.
Weisberg, ed., The European Realist
Tradition. Nineteenth-Century French
Studies 13(2&3):173-175.

Music

Klugherz, Laura J.

L.J. Klugherz. 1984. Lecture Recital.
The Works of Contemporary Spanish
Composers. Texas A and I University,
Kingsville, Texas.

L.J. Klugherz. 1984. Performance. Guest
Violist with the Blair String Quartet
of Vanderbilt University, the Works of
Brahms. Snite Museum of Art, University
of Notre Dame, Notre Dame, Indiana.

L.J. Klugherz. 1984. Solo Recital. Works
of Latin American and Spanish Composers.
Del Mar College, Corpus Christi, Texas.

L.J. Klugherz. 1984. Solo Recital.
Concert Artist Series, the Works of
Brahms, Montsalvatge and Sarasate.
Victoria, Texas.

L.J. Klugherz. 1985. Conductor. The
Notre Dame Chamber Orchestra, the Works
of Handel, Mozart, Wolf, and Barber.
Sacred Heart Church, University of
Notre Dame, Notre Dame, Indiana.

Sociology

- Weigert, Andrew, J.
A.J. Weigert, D.L. Thomas and N. Winston.
1985. Adolescent Identification with
Father and Mother: A Multi-national
Study. Acta Paedologica 1(1):47-68.

Theology

- Blenkinsopp, Joseph
J. Blenkinsopp. 1985. Prophecy and
Priesthood in Josephus. Pages 132-165
in, Josephus Studies. Yamamoto Shoten
Publishing House, Tokyo, Japan.
Collins, Raymond F.
R.F. Collins. 1984. Editor. Louvain
Studies. "In Memoriam: Pieter Frans
Fransen." 10(2):85-196.
O'Meara, OP, Thomas F.
T.F. O'Meara, OP. 1985. Martin Heidegger
and the Liturgical Year. Worship 59(2):
126-133.

COLLEGE OF SCIENCE

Biology

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awards received

Department or Office	Principal	Short title	Sponsor	Dollars Months
AWARDS FOR RESEARCH				
Aerospace Mech. Eng.	K.T. Yang	Three-Dimensional Convection- Thermal Interaction	Natl. Sci. Fdn.	121,021 12
Lobund Lab.	M. Pollard	Research and Services for American Biogenetic Sciences, Inc.	Amer. Biogenetic Sci., Inc.	35,000 60

Prog. Lib. Studies	N. Ayo	Commentary of Thomas Aquinas upon the Apostle's Creed	Marguerite Eyer Wilbur Fdn.	3,000 9
Civil Eng.	R. Irvine	Immobilized Enzyme Treatment of Xenobiotic Organic Compounds	Occidental Chem. Corp.	60,000 24
Physics	J. Dow	Semiconducting Superlattices and Microstructures	Dept. Navy	636,720 36
Advanced Studies	R. Gordon	Biomedical Research Support Grant for 1985-86	Natl. Inst. Health	84,983 12
Microbiology	P. Klebba	Immunoassay Procedures for Small Molecular Weight Natural Products	Chevron Chem. Co.	20,000 8.5
Cent. Study Man	J. Santos, G. Dawson	Multiple Antecedents and Outcomes of the Choice for Cremation	Natl. Res. and Info. Cent.	30,000 12
Aerospace Mech. Eng.	S. Batill	Parameter Identification for Aerospace Structures	Dept. Air Force	148,690 30
Physics	Browne, Darden, Funk, Garg, Kolata, Mihelich	Nuclear Structure Research	Natl. Sci. Fdn.	359,918 12
Physics	A. Livingston	Spectroscopy of Highly-Ionized Atoms	Natl. Sci. Fdn.	113,302 8
Physics	J. Kolata, U. Garg	Nuclear Structure and Reaction Mechanism Studies	Natl. Sci. Fdn.	204,114 12
College Eng.	M. Zeller, W. Berry	Surface Metallization Studies of β -SiC	Natl. Aero. Space Admin.	50,000 6
Electrical Eng.	A. Michel	Qualitative Analysis of Complex Dynamical Systems	Natl. Sci. Fdn.	58,000 12
Metallurgical Eng.	T. Kosel	Erosion in Dual-Phase Microstructures	Martin Marietta Energy Sys., Inc.	85,770 12
Biology	P. Weinstein	Cultivation of <i>Dipetalonema viteae</i>	World Health Organ.	245,834 36
Chemistry	A. Lappin	Stereoselectivity in Electron Transfer	Natl. Sci. Fdn.	60,000 12

AWARDS FOR FACILITIES AND EQUIPMENT

Aerospace Mech. Eng.	K.T. Yang	Acquisition of an 8" Mach-Zehnder Interferometer	Natl. Sci. Fdn.	19,000 12
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AWARDS FOR INSTRUCTIONAL PROGRAMS

Metallurgical Eng.	A. Miller	Development and Use of Interactive Videodisc Courseware	Lilly Endow. Inc.	25,000 25
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AWARDS FOR SERVICE PROGRAMS

Inst. Past. Soc. Min.	R. Pelton	Notre Dame Institute for Clergy Education	---	3,549 --
Inst. Past. Soc. Min.	R. Pelton	Notre Dame Institute for Clergy Education-Reunion	---	240 --
Inst. Past. Soc. Min.	J. Melloh	Notre Dame Center for Pastoral Liturgy	---	1,727 --
Inst. Past. Soc. Min.	J. Melloh	Notre Dame Center for Pastoral Liturgy-Publications	---	491 --
Inst. Past. Soc. Min.	S. Kelly	Programs for Church Leaders	---	200 --
Inst. Past. Soc. Min.	S. Kelly	Third Age Workshop	---	3,088 --

AWARDS FOR OTHER PROGRAMS

Electrical Eng.	D. Cohn	Doctoral Fellowship for Tenkasi V. Ramabadran	Intl. Bus. Machines	19,650 17
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proposals submitted

Department or Office	Principal	Short title	Sponsor	Dollars Months
PROPOSALS FOR RESEARCH*				
Electrical Eng.	Y.C. Kwor	S01 Structures by High Dose Nitrogen Implantation	Natl. Sci. Fdn.	48,216 11
Electrical Eng.	D. Costello	Error Control for Satellite and Space Communications	Natl. Aero. Space Admin.	96,544 24
Aerospace Mech. Eng.	H. Atassi	Aerodynamics of Advanced Turboprops	Natl. Aero. Space Admin.	16,000 12
Psychology	Borkowski, Whitman, Schellenbach	Predicting and Modifying Parenting in Adolescent Mothers	Natl. Inst. Health	185,244 12
Electrical Eng.	R. Liu, Y.F. Huang	Analysis and Modeling of System RMS Using GSPN	Dept. Navy	124,922 16
Chemistry	M. Miller	Synthesis of β -Lactams	Eli Lilly Co.	64,679 12
Chemical Eng.	C. Ivory	Recycle to Enhance the Resolution of Chromatographic Separation	Natl. Sci. Fdn.	326,953 36
Chemistry	X. Creary	Electronegatively Substituted Carbocations	Natl. Sci. Fdn.	50,000 12
Chemical Eng.	J. Kantor	NSF-PYI Supplemental Grant	Exxon Educ. Fdn.	15,470 12
Civil Eng.	M. Katona	Presidential Young Investigator Award	Natl. Sci. Fdn.	57,275 12
Biology	K. Rai	Genetic Differentiation in the <u>Aedes albopictus</u> Subgroup	Natl. Inst. Health	91,497 12
Radiation Lab.	L. Patterson	Radical Anions in Phototherapy	Natl. Sci. Fdn.	7,151 24
Physics	S. Lundeen	Fast Beam Atomic Physics	Natl. Sci. Fdn.	153,853 12
Microbiology	M. Clancy	Gene Expression in Sporulating Yeast	Natl. Sci. Fdn.	12,376 9
Chemical Eng.	E. Wolf	MS-FTIR Studies of the Catalytic Gasification of Carbons	Gas Res. Inst.	217,449 36
Biology	D. Lodge	Selective Predation: Impact on Freshwater Snail Communities	Natl. Sci. Fdn.	114,688 36
PROPOSALS FOR FACILITIES AND EQUIPMENT				
Economics	W. Davisson	Computer Applications and College Teaching	(various others)	27,144 12
College Eng.	R. Schmitz	CDC Engineering Centers Network Program	Control Data Corp.	1,320,000 36
PROPOSALS FOR INSTRUCTIONAL PROGRAMS				
Geront. Educ. Res., Serv.	R. Hubbard, J. Santos	Undergraduate Premedical Preparation in Geriatrics	Educ. Fdn. America	69,003 12
PROPOSALS FOR OTHER PROGRAMS*				
Administration	J. Dow, G. Sargent	Interdisciplinary Microelectronics Laboratory	Intl. Bus. Machines	12,000 6

*Does not include a \$14,824,934 proposal to NSF for a Hazardous Wastes Engineering Research Center, a proposal for \$7,500,000 to the Department of Transportation for a Cold Weather Transit Technology Program and a \$3,200,000 proposal to NEH for Institute for Scholarship in the Liberal Arts.

Psychology	J. Santos	Gerontology at Notre Dame: The Institutional Phase	Retirement Res. Fund	813,507 36
Inst. Urban Studies	W. Outlaw, M. Kimmins, T. Broden	Jobs Training Program Pre-Employment Workshop	Jobs Training Program	32,825 4

summary of awards received and proposals submitted

AWARDS RECEIVED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	9	1,531,714	8	784,638	17	2,316,352
Facilities and Equipment	0	0	1	19,000	1	19,000
Instructional Programs	0	0	1	25,000	1	25,000
Service Programs	0	0	6	9,295	6	9,295
Other Programs	0	0	1	19,650	1	19,650
Total	9	1,531,714	17	857,583	26	2,389,297

PROPOSALS SUBMITTED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	8	570,602	8	1,011,715	16	1,582,317*
Facilities and Equipment	0	0	2	1,347,144	2	1,347,144
Instructional Programs	0	0	1	69,003	1	69,003
Service Programs	0	0	0	0	0	0
Other Programs	1	813,507	2	44,825	3	858,332*
Total	9	1,384,109	13	2,472,687	22	3,856,796*

*Does not include a \$14,824,934 proposal to NSF for a Hazardous Wastes Engineering Research Center, a proposal for \$7,500,000 to the Department of Transportation for a Cold Weather Transit Technology Program and a \$3,200,000 proposal to NEH for Institute for Scholarship in the Liberal Arts.

closing dates for selected sponsored programs

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

Information Circular Number	Agency	Programs	Application Closing Dates
SCIENCE			
FY85-461	Social Science Research Council	Postdoctoral Research and Training in International Peace and Security Studies - MacArthur Foundation Fellows in International Security 1985-86	July 31, 1985
GENERAL			
FY85-460	American Institute of Indian Studies	Fellowship Programs	July 1, 1985
FY85-457	The German Marshall Fund of the United States and The Institute for European Environmental Policy	Fellowship Program for U.S. Environmentalists	June 14, 1985
FY85-462	Lighting Research Institute, Inc.	Request for Proposals in Lighting Research	July 15, 1985

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