

notre dame report

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the university

lilly grant to help with nieuwland hall expansion

The University has been awarded a matching grant for up to \$500,000 from Lilly Endowment, Inc., to help underwrite the renovation and expansion of Nieuwland Science Hall.

According to Timothy O'Meara, University Provost, Nieuwland's expansion will provide additional space for microelectronics research, a cross-disciplinary program that includes physics, electrical and computer engineering, and materials science and engineering.

University administrators have targeted \$2.5 million of the \$300 million Strategic Moment development campaign to establish a center for microelectronics research.

The cost of reconstructing and enlarging Nieuwland is estimated at about \$5 million, according to O'Meara. This will include major remodeling as well as the addition of a new multi-story wing to provide more space for microelectronic research, laboratories, and classrooms.

Notre Dame is one of 51 independent colleges selected by Lilly Endowment to receive a "Dream of Distinction" matching grant for a major investment in its campus. Lilly will match each dollar up to \$500,000 raised by Notre Dame by December 31, 1989 for the expansion.

nd receives gm grant

Notre Dame has received the first installment of a five-year, \$250,000 grant from the General Motors Corporation for the College of Engineering. The grant, General Motors' commitment to Notre Dame's \$300 million Strategic Moment Campaign, will support the University's Minority Engineering Program and enable the purchase of equipment for the Mechanical Engineering Department's Measurements Laboratory.

The Minority Engineering Program is designed to retain minority students in the College of Engineering by providing peer advisors, a tutoring system, and formal study group sessions.

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faculty notes

honors

Peri E. Arnold, chairman and professor of government and international studies, has received the 1987 Louis Brownlow Book Award from the National Academy of Public Administration (NAPA) for his book, Making the Managerial Presidency.

Rev. Andrew J. Christiansen, S.J., associate professor of theology, has been appointed the local religious superior of the Jesuit community at Notre Dame.

Adela Yarbro Collins, professor of theology, has been elected to the executive board as consultant of the Catholic Biblical Association.

Jay P. Dolan, director of the Charles and Margaret Hall Cushwa Center for the Study of American Catholicism and professor of history, has been selected the 1987-88 alumnus of the year by the University of Chicago Divinity School.

John D. Dow, Freimann professor of physics, was elected a member of the technical advisory committee of the Third International Conference on Superlattices, Microstructures, and Microdevices.

Paramasivan Natarajan, professional specialist in the Radiation Laboratory, has been elected a fellow of the Indian National Science Academy.

Rev. Thomas F. O'Meara, O.P., Warren professor of theology, received the honorary degree Sacrae Theologiae Magister, from the Dominican Order.

William L. Petersen, assistant professor of theology, has been elected to the Studiorum Nova Testamenti Societas.

Thomas J. Schlereth, professor of American Studies, has been elected to the board of editors of the Canadian Review of American Studies.

appointments

Provost Timothy O'Meara has announced the following appointments: Todd M. Bemenderfer, associate director, Executive Programs Division, College of Business Administration; Joseph Buttigieg, chairman, department of English; Rev. William Campbell, chaplain, ROTC; John Duman, associate dean, College of Science; Rev. Carl Ebey, C.S.C., executive assistant to the president; Joseph P. Guiltinan, chairman, department of marketing; Richard A. Hilliard, director of graduate admissions; Edward Kline, acting chairman, department of music; John J. Kozak, associate dean, College of Science; Klaus Lanzinger, acting chairman (fall semester), department of modern languages; David Leege, director, Hesburgh Program in Public Service; Carol Ann Mooney, assistant dean, Law School; Joseph Piane, chairman, physical education; James H. Powell, assistant vice president for Advanced Studies and director of summer session; James E. Robinson, assistant chairman, department of English; Charles Rosenberg, chairman, department of art, art history and design; Thomas Swartz, collegiate fellow in the College of Arts and Letters; James I. Taylor, acting dean, College of Engineering; J. Robert Wegs, chairman, department of history; Robert W. Williamson, associate dean, College of Business Administration.

activities

Manju Basu, associate faculty fellow in chemistry, presented a paper, "Studies on Biosynthesis of Fucolipids of Human Colon Carcinoma," at the 9th International Symposium on Glycoconjugates held in Lille, France, July 6-11.

Subhash C. Basu, professor of chemistry, gave a talk titled "Biosynthesis of Glycolipids with Solubilized GalNAcT's and GALT's from Embryonic Chicken Brains" at the 9th International Society of Neurochemistry Meeting held in La Guaira, Venezuela, May 31 - June 6. He gave an invited symposium, "Biosynthesis *in vitro* of Neuronal and Non-neuronal Gangliosides," at the Satellite Symposium of the International Society of Neurochemistry - American Society of Neurochemistry joint meeting held in Puerto La Cruz, Venezuela, June 9-12. He also gave an invited collo titled "Solubilized Glycosyltransferases and Biosynthesis *in vitro* of Glycolipids" at the 9th International Symposium on Glycoconjugates held in Lille, France, July 6-11. He was invited by the department of biochemistry at Michigan State University and gave a seminar, "DNA Replication Initiation Complex of Neuroblastoma Cells," Ann Arbor, Mich., Aug. 20.

Jeffrey H. Bergstrand, assistant professor of finance, was a discussant for a paper titled "Expectations and Exchange Rate Determination: An Alternative Test with a Modified Asset-Market Model" at a session, "Foreign Exchange Markets and Global Diversification," at the Financial Management Association meeting in Las Vegas, Nev., Oct. 14-17.

Byung T. Cho, associate professor of management, served as chairman of the invited paper session on time series analysis at the annual joint national meetings of the Operations Research Society of America and the Institute of Management Science held in St. Louis, Mo., Oct. 26-28.

Kevin J. Christiano, assistant professor of sociology, chaired and served as a discussant in the session, "Sociology of Religion and History: Methods," at the annual meeting of the Society for the Scientific Study of Religion held in Louisville, Ky., Oct. 30.

Rev. Andrew J. Christiansen, S.J., associate professor of theology, served as co-convenor and coordinator, Moral Theology Consultation, Moreau Seminary, University of Notre Dame, Notre Dame, Ind., June 13-16. He also participated in the John Courtney Murray Jesuit Writers' Group, Berkeley, Calif., June 18 - July 23. He was a grant consultant (NSF/EVIST) at the California State University at San Francisco and California State Department of Education for a teacher training program in genetics and genetic ethics, during June through Aug. He was a convenor for the Bishop's Colloquium on Nuclear Ethics at the University of California, Graduate Theological Union, and Lawrence Livermore National Laboratory, Danville, Calif., Oct. 9.

Robert R. Coleman, staff faculty fellow in the Medieval Institute, participated in an international symposium, "Thinking on Paper: European Drawings of the 16th & 17th Centuries," sponsored by the department of fine arts, University of Pittsburgh, held in conjunction with the exhibition "Old Master Drawings from Chatsworth: A Loan Exhibition from the Devonshire Collection," at The Frick Art Museum, Pittsburgh, Pa., Oct. 16-17.

Adela Yarbrow Collins, professor of theology, delivered the Fred Francis Memorial Lectures titled "Women's History, Sexuality, and the Bible" and "The Gospel and Women: A Feminist Interpretation of the Bible" at Chapman College, Orange, Calif., Sept. 29. She also presented "The Origins of the Christology of the Book of Revelation" at a colloquy on messianic ideas in early Judaism and early Christianity, sponsored by NEH, held at Princeton Theological Seminary, Princeton, N.J., Oct. 4-7.

Daniel J. Costello, Jr., professor of electrical and computer engineering, presented a seminar titled "Bandwidth Efficient Coding for Satellite Communications" at the Illinois Institute of Technology, Chicago, Ill., Oct. 23.

Xavier Creary, professor of chemistry, presented a seminar titled "The Generation and Properties of α -Carbonyl, Phosphoryl, Sulfonyl and Sulfinyl Carbocations" for the department of chemistry at Wright State University, Dayton, Ohio, Oct. 16.

Donald T. Critchlow, associate professor of history, participated in the National Academy of Science Conference "The Future of Technology and Work: Research and Policy Issues" held in Washington, D.C., Oct. 27. He also chaired and commented on the session, "Public and Collective Memories," at the Social Science History Association meeting, held in New Orleans, La., Oct. 30.

Nazih Y. Daher, assistant professor of modern and classical languages, gave a lecture titled "Lebanon - An Outlook to the Future" at the Forever Learning Institute, South Bend, Ind., Oct. 14. He also gave a lecture titled "Lebanon - What Next?" at Sunny-side Presbyterian Church, South Bend, Ind., Nov. 1.

Jay P. Dolan, professor of history and director of the Cushwa Center for the Study of American Catholicism, presented a keynote paper, "The American Catholic Culture - Past and Present" at the conference on culture and communication at the University of Santa Clara, Santa Clara, Calif., Aug. 16. He also delivered a talk titled "An Historical Perspective on Contemporary American Catholicism" to the faculty at Loyola University, Chicago, Ill., Oct. 9.

John D. Dow, Freimann professor of physics, gave a series of lectures as visiting professor at the University of Minnesota in the department of chemical engineering and materials sciences, Minneapolis, Minn., April 1 - May 15. He gave a paper titled "Supercomputing and Artificial Materials" at the University of Minnesota Supercomputer Institute, Minneapolis, Minn., May 15. He gave an invited talk "Semiconductors with Impurities in Small

and Large Concentration" at a workshop on new frontiers in semiconductor materials: superlattice structure and devices at the University of Minnesota, Minn., May 19.

Guillermo J. Ferraudi, professional specialist in the Radiation Laboratory, presented two papers, "Thermal and Photochemical Reactions of d^9 Metal Complexes: The Silver (II) Macrocytes" (coauthored by Silvia Ronco and Beatrice Van Vlierberge, research associates in the Radiation Laboratory) and "Photochemical Properties of Tin(IV) Phthalocyanines" (coauthored by Bela Kraut, research associate in the Radiation Laboratory) at the Indiana University-Purdue University-Notre Dame Inorganic Chemistry Symposium held in Bloomington, Ind., Oct. 31.

Denis Goulet, O'Neill professor of education for justice and in the Kellogg Institute, delivered a lecture, "The Future of Mexican Society," to the department of human resources and the Pedagogical Center of the Universidad Ibero-Americana, Mexico City, Oct. 16. He taught a course, "New Models for Decision-Making: A Research Agenda" to faculty and professional staff of the Direccion General de Planeacion, Universidad Autonoma de Yucatan, Merida, Mexico, Oct. 18-31. He also delivered two lectures to the facultad de educacion of the Universidad de Yucatan titled "The Social Tasks of Education" and "Values Research in the Social Sciences," Oct. 19-20. He lectures on "Three Rationalities: Technical, Political, and Ethical" at the Instituto Tecnologico de Mexico, Merida branch, Oct. 28. He addressed the Alumni Association of the Facultad de Educacion, Universidad Autonoma de Yucatan on "The Quest for Wisdom in a Technological Age," Oct. 29.

Paul J. Griffiths, assistant professor of theology, presented "Mythologizing Philosophically and Philosophizing Mythologically" as part of the University of Chicago colloquium on religion(s) in history and culture held at the University of Chicago Divinity School, Oct. 17.

Christopher Hamlin, assistant professor of history, read a paper titled "Millenarianism, Populism and Eco-Agriculture: An Exploration of the Thought of Charles Walters, Jr." at the conference on agriculture, food and human values, Orlando, Fla., Oct. 9. He read another paper, "Taking The Big Step: Engineers and Municipal Sanitary Initiative in 19th Century British Towns," at the annual meeting of the Society for the History of Technology, Raleigh, N.C., Nov. 1.

Robert G. Hayes, professor of chemistry, delivered a paper titled "Fragmentation of Molecular Ionic Species Produced by Photoabsorption in the Energy Regions of Core Electron Excitation" at the "New Opportunities in Chemistry: A Symposium on the Uses of Synchrotron Radiation in Chemistry," Brookhaven National Laboratory, Upton, Long Island, N.Y., Nov. 4-6.

Roger F. Jacobs, professor of law and director of research in the Law Library, delivered an address titled "AALL an Institutional Failure?" at a regional meeting of law library associations, Albany, N.Y., Oct. 10.

Thomas Jemielity, associate professor of English, delivered a paper, "Prophets or Projectors? Challenges to Credibility in Hebrew Prophecy," at the annual meeting of the Midwest American Society for 18th Century Studies, held at the University of Michigan, Ann Arbor, Oct. 23-25.

Robert C. Johansen, professor of government and international studies, and senior fellow in the Institute for International Peace Studies, presented four invited lectures titled "United Nations Peacekeeping: The Unrealized Potential," "How the United Nations Can Contribute to Legitimate U.S. Security Needs," "The Reagan Administration and the United Nations: Current Myths and Continuing Realities," and "Relating Third World Studies to Peace and World Order Studies: Common Ground and Diverse Emphases" as part of the program on peace and world security studies of the five college consortium of the University of Massachusetts, Mt. Holyoke, Smith-Amherst, and Hampshire College, Oct. 28-29.

Rev. Charles Kannengiesser, S.J., Huisking professor of theology, presented a series of lectures in Australia and England this past summer. The series included: "Christological Foundations Revisited," "Christian Spirituality Early and Contemporary," and "Spirit and Church Today" at the Perth Theological Hall, Uniting Church in Australia, School of Theology, Perth, Western Australia, July 21-23. "The New Testament in Alexandria" at the University of Queensland, department of studies in religion, Brisbane, Queensland, July 27. "Tradition and Hermeneutics" at Pius XII Seminary, and "New Foundations of Christian Theology" at the Institute of Faith, Brisbane, Queensland, July 28. "The Relevance of the Fathers of the Church Today" at the Institute of Faith, Brisbane, Queensland, July 29. "Christian Spirituality - Past and Present" at the Institute of Faith, Ipswich, Queensland, July 30. "The Enigma of the Anthanasian Letters to Maximus and to the Africans" at the 10th International Patristic Conference, Oxford, England, Aug. 28. He also presented "Athanasius of Alexandria Rediscovered: His Political and Pastoral Achievement" at the Catholic University of America, Washington, D.C., Oct. 22. He delivered "Athanasius of Alexandria East and West Revisited" at the University of Virginia, Charlottesville, Oct. 26.

Jeffrey C. Kantor, associate professor of chemical engineering, presented a seminar titled "Nonlinear Process Control by Geometric Methods" to the department of chemical engineering at the University of Wisconsin, Madison, Oct. 6.

John M. LoSecco, associate professor of physics, delivered an invited talk titled "Future Directions for the IMB Detector" at a workshop on extra solar neutrino astronomy held at the University of California at Los Angeles, Oct. 2.

Scott Mainwaring, assistant professor of government and international studies and assistant faculty fellow in the Kellogg Institute, gave a lecture titled "Social Movements and Democracy in Latin America" at the Federal University of Santa

Catarina Florianopolis, Brazil, Oct. 2. He delivered another lecture, "From Populism to Sectarianism" at a conference on education, science, and Catholicism at the Advanced Institute for the Study of Religion, Rio de Janeiro, Brazil, Oct. 6.

John Matthias, professor of English, gave a reading of his poetry at the University of New Hampshire on Wednesday, Oct. 21.

Rev. Donald P. McNeill, C.S.C., director of the Center for Social Concerns and concurrent assistant professor of theology, met as a member with the Advisory Council of the Association of Catholic Colleges and Universities for Justice and Peace Education in Washington, D.C., Oct. 8.

Dian Murray, assistant professor of history, presented "China Today: Teaching Strategies for Secondary Educators" at the Christian Educators Association 1987 Convention, South Bend, Ind., Oct. 30.

Paramasivan Natarajan, professional specialist in the Radiation Laboratory, presented an invited seminar, "Photochemistry of Macromolecular Metal Complexes," at the Institute of Physics and Chemistry, Riken, Mitoshi, Japan, Oct. 19.

Rev. Edward D. O'Connor, C.S.C., associate professor of theology, presented a lecture series titled "Mary in Catholic Theology" to South Bend CCD instructors, South Bend, Ind., Oct. 15, 22, and 29.

William O'Rourke, associate professor of English, gave an invited lecture on Studs Terkel's Working at the Mishawaka-Penn Public Library's "Let's Talk About It" series, Mishawaka, Ind., Oct. 27.

Daniel J. Pasto, professor of chemistry, presented the J. Clarence Karcher lecture titled "Factors Affecting the Structures and the Rotation and Ring Closure in Diradical Intermediates Formed in Allene Cycloaddition Reactions" to the department of chemistry at the University of Oklahoma, Norman, Oct. 22.

Anand Pillay, associate professor of mathematics, presented a paper, "Semisimple Stable and Superstable Groups," at the Trento Meeting on Model Theory, Trento, Italy, July 13-17.

Robert H. Schuler, director, Radiation Laboratory and Zahn professor of radiation chemistry, gave a seminar titled "Raman Studies of Transient Radicals" at the University of Georgia, Athens, Nov. 2.

James H. Seckinger, director of the National Institute for Trial Advocacy and professor of law, gave a presentation to the faculty on effective teaching techniques and served as a faculty member for the NITA Southeast Negotiation Program at the University of North Carolina School of Law in Chapel Hill, Oct. 17-20.

Daniel Sheerin, professor of modern and classical languages, received (with Prof. Ruth Steiner, School of Music, Catholic University of America), a grant from the National Endowment for the Human-

ities to offer an NEH summer seminar for college teachers on "Liturgy and Hagiography in the Western Middle Ages," in Washington, D.C.

Michael A. Signer, visiting Abrams professor of theology, gave a presentation titled "Apocalypse Now: The Roots of Contemporary Messianic Movement" at the biennial meeting of the Union of American Hebrew Congregations held in Chicago, Ill., Oct. 31.

J. Eric Smithburn, professor of law, served as a faculty member of the National College of Juvenile and Family Law and presented lectures on evidentiary problems in family and juvenile court to family and juvenile court judges held at the University Nevada, Reno, Oct. 18-21. He also presented lectures on judicial discretion, evidence and jury trial for the Institute of Continuing Judicial Education of Georgia Judicial Conference in Forsyth, Ga., Oct. 22.

Albin A. Szewczyk, chairman and professor of aerospace and mechanical engineering, presented a paper titled "Experimental Investigation of the Effects of Strong Buoyancy on Turbulent Wakes," chaired a discussion, "Turbulence and Aerodynamics," and chaired a plenary session, "Thermocapillary Convection Under Low Gravity" at the 18th Symposium on Advanced Problems and Methods in Fluid Mechanics held in Mragowo, Poland, Sept. 6-11.

Robert P. Vecchio, chairman and Schurz professor of management, presented a paper titled "An Examination of Several Popular Criticisms of the Organizational Sciences" at the national Operations Research Society of America and the Institute of Management Sciences meeting held in St. Louis, Mo., Oct. 28.

Paolo Visona, assistant professor of modern and classical languages, delivered a report on the University of Notre Dame excavations at Oppido Mamertina (Reggio Calabria, Italy) in 1987 at the 22th Convegno Internazionale di Studi sulla Magna Grecia at Taranto, Oct. 10.

F. Ellen Weaver, associate professional specialist, assistant chairwoman, and collegiate director of theology, presented "Simone Weil: The Quest for Truth," for Women of Faith Series, Center for Spirituality, Saint Mary's College, Notre Dame, Ind., Oct. 13.

J. Robert Wegs, chairman and associate professor of history, presented a paper titled "Adolescence and Working-Class Youth in Vienna, 1890-1938" at the 12th annual meeting of the Social Science History Association held in New Orleans, La., Nov. 1.

John H. Yoder, professor of theology, gave a lecture series titled "The Rest of the Reformation" at Eden Seminary, St. Louis, Mo., Oct. 28.

documen- tation

corrections to nd report no. 4

Editor's Note: Following are corrections and additions to Notre Dame Report #4 which have been brought to the editor's attention. Underlined portions are the corrections.

University Committees

Under University Administration:

Computing Center

Carol J. Havens, Ph.D.

R. Scott Cowdrey, M.S.

Rebecca R. DeBoer, Ph.D.

Assistant Director - Hardware/Software Systems

Stephen A. Cox, B.S.

Manager - Computer Store

Editors of Scholarly Publications

Gerontology and Geriatrics Education

John Santos et al., Editors

Faculty of the University, Academic Year 1986-87:

MICHAEL G. BOWEN, Assistant Professor of Management. A.B., Univ. of Michigan, 1971; M.B.A., Univ. of Detroit, 1981; Ph.D., Univ. of Ill., Urbana, 1987. (1985)

LOUIS A. MACKENZIE, JR., Assistant Professor of Modern and Classical Languages. B.A., Univ. of Notre Dame, 1969; M.A., Middlebury College, 1972; Ph.D., Cornell Univ., 1976. (1983)

The following professors should be included in the faculty roster:

THOMAS M. BARKES, Adjunct Instructor in Communication and Theatre. B.A., Hope College, 1977; M.A., Univ. of Michigan, 1977. (1986)

ROBERT P. BURKE, Assistant Professional Specialist in the College of Arts and Letters, Institute for Scholarship in the Liberal Arts. A.B., Harvard Univ., 1973. (1987)

*WILLIAM H. HAMILL, Professor Emeritus of Chemistry. B.S., Univ. of Notre Dame, 1930; M.S., *ibid.*, 1931; Ph.D., Columbia Univ., 1936. (1938)

PAUL V. KONKA, Adjunct Assistant Professor of Finance. B.A., Univ. of Wisconsin, 1973; M.B.A., George Washington Univ., 1982; J.D., Univ. of Oregon, 1986. (1987)

RODERICK ROWLAND, Staff Professional Specialist in Civil Engineering. B.S., Eastern Kentucky Univ., 1975. (1987)

advanced studies

current publications and other scholarly works

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

COLLEGE OF ARTS AND LETTERS

Anthropology

Gaffney, Patrick D.

P.D. Gaffney. 1987. The Local Preacher and Islamic Resurgence in Upper Egypt: An Anthropological Perspective. Pages 35-63 in, R. Antoun and M. Hegland, eds., Religious Resurgence: Contemporary Cases in Islam, Christianity, and Judaism. Syracuse University Press, Syracuse, New York.

Economics

D.A. Goulet. 1987. Culture and Traditional Values in Development. Pages 165-178 in, S. Stratigos and P.J. Hughes, eds., The Ethics of Development: The Pacific in the 21st Century, Papers from the 17th Waigani Seminar. University of Papua New Guinea Press, Port Moresby.

English

Kucich, Greg P.

G.P. Kucich. 1987. The Poetry of Mind in Keats's Letters. Style 21(1):76-94.

Government and International Studies

Leege, David C.

D.C. Leege. Catholics and the Civic Order: Parish Participation, Politics, and Civic Participation. Notre Dame Study of Catholic Parish Life 11:1-13.

History

Gleason, J. Philip

J.P. Gleason. 1987. Pluralism, Democracy and Catholicism in the Era of World War II. Review of Politics 49:208-230.

J.P. Gleason. 1987. Keeping the Faith: American Catholicism Past and Present. University of Notre Dame Press. Notre Dame, Indiana. 285 pp.

Nugent, Walter

W. Nugent. 1986. Review of James McGregor Burns, The Workshop of Democracy. American Historical Review 91(3):738-739.

W. Nugent. 1986. Review of Carlos Schwantes, Coxey's Army: An American Odyssey. New Mexico Historical Review 61(3):264-265.

W. Nugent. 1987. Review of Robert M. Taylor, Jr., and Ralph J. Crandall, Generations and Change: Genealogical Perspectives in Social History. Indiana Magazine of History 83(1):97-98.

W. Nugent. 1987. Review of James Marshall, Land Fever: Dispossession and the Frontier Myth. Journal of American History 74(1):183-184.

W. Nugent. 1987. Review of Richard L. McCormick, The Party Period and Public Policy: American Politics from the Age of Jackson to the Progressive Era. American Historical Review 92(4):1038-1039.

Modern and Classical Languages

Welle, John P.

J.P. Welle. 1987. The Poetry of Andrea Zanzotto. Bulzoni, Roma, Italy. 138 pp.

J.P. Welle. 1987. Review, Cesare Viviani, Merisi. World Literature Today Summer: 432-433.

J.P. Welle. 1987. Review, Andrea Zanzotto, Idioma. World Literature Today Summer:434.

Philosophy

- McInerny, Ralph M.
R.M. McInerny. 1987. The Basket Case.
St. Martin's Press. New York, New York.
182 pp.
McMullin, Ernan.
E. McMullin. 1987. Is Science Pro-
gressive? Isis 78:260-261.

Psychology

- Tageson, C. William
C.W. Tageson. 1987. Questions Posed by
Teleology for Cognitive Psychology:
Introduction and Comments. The Journal
of Mind and Behavior 8(2):179-184.

Theology

- Nelson, Paul R.
P.R. Nelson. 1987. Liturgical Prayer and
Christian Unity. Liturgy 6(4):85-91.
Tripp, David H.
D.H. Tripp. 1987. "Gnostic Worship": The
State of the Question. Studia Liturgica
17:210-220.

COLLEGE OF SCIENCE

Biological Sciences

- Martin, Vicki J.
V.J. Martin. 1987. Analysis of Nerve
Cell Differentiation in Hydrozoan
Planulae Using Electron Microscopy and
Immunocytochemistry. Volume 2, Page 14
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Workshop on Hydroid Development. Uni-
versity of Munchen, Gunzburg, West
Germany.

Chemistry

- Basu, Subhash C.
S. Takada, A. Torres-Rosado, S. Ray and
S.C. Basu. 1986. Stimulation of Human
Neuroblastoma DNA Polymerase α and Pri-
mase Activities by a Protein Factor Iso-
lated from Rat Liver. Proceedings of
the National Academy of Science 83:9348-
9352.

Thomas, J. Kerry

- D.Y. Chu and J.K. Thomas. 1987. Photo-
physical and Photochemical Studies on
a Polymeric Intramolecular Micellar
System, PA-18K₂. Macromolecules 20:
2133-2138.

- J. Murtagh and J.K. Thomas. 1987. Long-
Distance Electron Transfer from a Triplet
Excited State. Chemical Physics
Letters 139(5):437-441.

- J. Murtagh and J.K. Thomas. 1987. Mo-
bility and Reactivity in Colloidal Aggre-
gates with Motion Restricted by Polymer-
ization. Faraday Discussion 81:127-136.

- J.K. Thomas and G. Beck. 1987. Primary
Action of Ionizing Radiation on Condensed
Systems. Pages 16-30 in, M.J. Bowden
and S.R. Turner, eds., Polymers for High
Technology Electronics and Photonics.
American Chemical Society, Washington,
D.C.

Mathematics

- Sommese, Andrew J.
M. Beltrametti and A.J. Sommese. 1987.
A Criterion for a Variety to be a Cone.
Commentarii Mathematici Helvetici
62:417-422.

COLLEGE OF ENGINEERING

Aerospace and Mechanical Engineering

Gad-el-Hak, Mohamed

- M. Gad-el-Hak. 1987. The Water Towing
Tank as an Experimental Facility. Ex-
periments in Fluids 5:289-297.

- M. Gad-el-Hak. 1987. Unsteady Separation
on Lifting Surfaces. Applied Mechanics
Reviews 40:441-453.

- M. Gad-el-Hak and R.F. Blackwelder. 1987.
Simulation of Large-Eddy Structures in a
Turbulent Boundary Layer. AIAA Journal
25:1207-1215.

- M. Gad-el-Hak and R.F. Blackwelder. 1987.
Control of the Discrete Vortices from a
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Yang, Kwang-tzu

K.T. Yang, K.V. Lie, Y.W. Wu and M.D. Kelleher. 1987. Local Oscillatory Surface Temperature Responses in Immersion Cooling of a Chip Array by Natural Convection in an Enclosure. Pages 309-330 in, Proceedings of the Symposium on Heat and Mass Transfer in Honor of B.T. Chao. University of Illinois, Urbana, Illinois.

K.T. Yang, H.Q. Yang and J.R. Lloyd.

1987. A Numerical Study of 3-D Laminar Natural Convection in a Horizontal Cylinder with Differentially Heated End Walls at High Rayleigh Numbers. Pages 153-195 in, Proceedings of Symposium on Heat and Mass Transfer in Honor of B. T. Chao. University of Illinois, Urbana, Illinois.

Civil Engineering

Elishakoff, Isaac

I. Elishakoff and B.F. Spencer, Jr. 1987. Reliability of An Uncertain Sliding Structure. Volume 14(a), Pages 435-440 in, Developments in Mechanics. Proceedings of the 20th Midwest Mechanics Conference. Purdue University, West Lafayette, Indiana.

Spencer, Billie F.

See under Elishakoff Isaac. 1987. Volume 14(a), Pages 435-440 in, Developments in Mechanics. Proceedings of the 20th Midwest Mechanics Conference. Purdue University, West Lafayette, Indiana.

Electrical and Computer Engineering

Berry, William B.

P. Longrigg and W.B. Berry. 1987. Open Circuit Voltage Decay as a Measure of a-Si Stability. Pages 1488-1489 in, Proceedings of Nineteenth IEEE Photovoltaic Specialists Conference. New Orleans, Louisiana.

Costello, Jr., Daniel J.

R.H. Deng and D.J. Costello, Jr. 1987. Reliability and Throughput Analysis of a Concatenated Coding Scheme. IEEE Transactions on Communications COM-35: 698-705.

Herro, Mark A.

M.A. Herro and R.H. Deng. 1987. Error-Correcting DC-Free Binary Transmission Codes for Fiber-Optic Digital Communications. Pages 559-564 in, Proceedings of the Twenty-First Annual Conference on Information Sciences and Systems. The Johns Hopkins University, Baltimore, Maryland.

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awards received

IN THE PERIOD OCTOBER 1, 1987 THROUGH OCTOBER 31, 1987

<u>Department or Office</u>	<u>Principal</u>	<u>Short Title</u>	<u>Sponsor</u>	<u>Dollars Months</u>
AWARDS FOR RESEARCH				
Aerospace Mech. Eng.	Mueller	Boundary Layer Characteristics on Low Reynolds Number Airfoils	Dept. Navy	103,711 15
Civil Eng.	Gray, Kinnmark	Techniques for Simulation of Surface Water Flow & Transport	Intl. Business Machines	151,500 12
Chemical Eng.	Chang	High Reynolds Number Flow in Porous Media	Amer. Chemical Society	18,700 12
Aerospace Mech. Eng.	Dunn	The Dynamics of Charged Vacuol Generation	Dept Air Force Space Div.	120,000 12
Elect. Comp. Eng.	Cohn, Hubscher	Intelligent Work Stations	Intl. Business Machines	348,347 12
AWARDS FOR INSTRUCTIONAL PROGRAMS				
Cent. Study Cont. Soc.	Wright	Minority Fellowships	Dept. Education	43,000 12
Law School	McLean	Food and Drug Law Course	Food & Drug Law Inst.	3,000 4
AWARDS FOR SERVICE PROGRAMS				
Cent. Social Concerns	McNeill	Center for Social Concerns	Various Others	373 1
ND Cent. Past. Liturgy	Bernstein	Notre Dame Center for Pastoral Liturgy - Publications	Various Others	5,502 1
ND Cent. Past. Liturgy	Bernstein	Notre Dame Center for Pastoral Liturgy	Various Others	7,547 1
Cent. Cont. Form. Min.	Pelton	Notre Dame Center for Continu- ing Formation in Ministry	Various Others	11,089 1
Inst. Past. Soc. Min.	Pelton	IPSM Parish Study - Phase III	Various Others	160 1
Latin/North Amer Church Conc.	Pelton	Latin and North American Church Concerns	Various Others	10,020 1
Prog. Church Leaders	Kelly	Programs for Church Leaders	Various Others	2,598 1
Inst. Past. Soc. Min.	Pelton	IPSM Media Ministry	Various Others	510 1
AWARDS FOR OTHER PROGRAMS				
Graduate School	Le	Jacob K. Javits Fellows Program	Dept. Education	16,000 12
Physics	Arnold, Tomasch, Furdyna, Dow	Support of the 35th Midwest Solid State Conference	Argonne Univ. Trust Fund	7,328 5
College Science	Pollard, Wostmann, Snyder	Symposium on the Use of Germ- free Rats in Aging Studies	Natl. Inst. Health	8,300 12
Snite Museum Art	Porter, Larkin	National Endowment for the Arts Implementation	Natl. Endow. Arts	75,000 24

proposals submitted

IN THE PERIOD OCTOBER 1, 1987 THROUGH OCTOBER 31, 1987

Department or Office	Principal	Short Title	Sponsor	Dollars Months
PROPOSALS FOR RESEARCH				
Amer. Studies	Allen	Narrative Themes in Western Oral History	Natl. Endow. Humanities	5,201 3
Biological Sciences	Carpenter, St.Amand	Alternate States of Metalimne- tic Systems	Natl. Sci. Fdn.	9,719 24
Civil Eng.	Bierman	Tributary Loading Methods	Purdue Univ.	54,000 12
Chemistry	Thomas	Photochemistry in Constrained Systems	Natl. Sci. Fdn.	131,579 12
Elect. Comp. Eng.	Porod	A Study of Electronic Transport and Breakdown in SiO ₂	Dept. Navy	228,208 36
Elect. Comp. Eng.	Sain	Investigations in the Module Theory of Systems	Natl. Security Agency	207,699 24
English	Brogan	Poets Against Their Climate: Williams, Stevens, and Bishop	Amer. Council Learned Soc.	34,220 6
English	Krier	English Renaissance Arts & the Decorums of Vision	Amer. Council Learned Soc.	55,105 10
Government Intl. Stud.	Dallmayr	Minerva at Dawn	Amer. Council Learned Soc.	86,420 12
Government Intl. Stud.	Dallmayr	Minerva at Dawn: Post-Hegelian Political Thought	JS Guggenheim Mem. Fdn.	86,420 12
Mathematics	Buechler	Geometrical Stability Theory	Natl. Sci. Fdn.	68,738 36
Mathematics	Taylor, Dwyer	Algebraic and Geometric Topology	Natl. Sci. Fdn.	84,591 12
Mathematics	Stoll, Wong	Theory of Several Complex Variables	Natl. Sci. Fdn.	68,194 12
Mathematics	Wong	Representations of Algebraic Groups	Natl. Sci. Fdn.	72,605 24
Mod. Class. Languages	Welle	History of the Italian Movie Poem	Natl. Endow. Humanities	5,201 3
Mod. Class. Languages	Welle	Pasolini & Postwar Italy	Council Intl. Exchg. Scholar	21,290 6
Mod. Class. Languages	Olivera- Williams	Uruguayan Literature in Exile	Amer. Council Learned Soc.	36,523 18
Mod. Class. Languages	Anadon	The Earliest Latin American Novels	Amer. Council Learned Soc.	46,354 12
Mod. Class. Languages	MacKenzie	The Responses to Pascal's <u>Lettres provinciales</u>	Natl. Endow. Humanities	5,201 3
Mod. Class. Languages	Welle	History of the Italian Movie Poem	Natl. Endow. Humanities	3,500 3
Philosophy	O'Connor	Aristotelian Approaches to Justice and Friendship	Amer. Council Learned Soc.	29,986 9
Physics	Lundeen	Fast Beam	Natl. Sci. Fdn.	178,095 12
History	Wegs	Social History of Vienna 1890-1914	JS Guggenheim Mem. Fdn.	52,618 9

Department or Office	Principal	Short Title	Sponsor	Dollars Months
Mathematics	Stanton	Eigenvalues of Complex Laplacians	Natl. Sci. Fdn.	31,660 12
Mathematics	Nesin	Model Theory of Groups	Natl. Sci. Fdn.	35,763 24
Physics	Furdyna	Neutron Studies of Diluted Magnetic Semiconductors	Natl. Sci. Fdn.	88,526 12
Prog. Lib. Stud.	Fallon	Milton's Prose and the Emer- gence of Spirit-Matter Monism	Amer. Council Learned Soc.	37,004 12
Psychology	Borkowski, Maxwell	Cognitive Characteristics of Gifted Preschoolers	Saint Mary's College	51,462 12
Psychology	Howard	Self Determination and Meaningfulness	James McKeen Cattell Fund	61,680 12
Theology	Searle	Semiotic Study of Public Ritual in a Faith Community	Amer. Council Learned Soc.	47,481 12
Accountancy	Kern	The Tax Policy Implications of TRA 86 on Two Earner Couples	A. Young Tax Res Grant Prog	20,880 2
Biological Sciences	Craig	Factors Affecting Vector Competence in <u>Aedes triseriatus</u>	Natl. Inst. Health	304,892 12
Biological Sciences	Carpenter	Cascading Trophic Interactions	Natl. Sci. Fdn.	109,170 12
Civil Eng.	Silliman	Quantifying Climatic Warning	C.A. Lindbergh Fund, Inc.	14,934 12
Civil Eng.	Varma	Guggenheim Fellowship	JS Guggenheim Mem. Fdn.	49,059 12
Civil Eng.	Spencer	Stochastic Model of Fatigue Crack Growth	Universal Energy Sys.	95,018 12
Chemical Eng.	McCready	Simulation of Mass Transfer	Natl. Cent. Super. Appl.	* 7
Chemistry	Helquist	New Organometallic Polycyclic Annulation Procedures	Natl. Sci. Fdn.	65,789 12
College Eng.	Mueller, et. al.	Autonomous Planetary Exploration	Natl. Aero. Space Admin.	7,087,740 54
English	Vasta	The Pearl Poet and the Power of Judgment	JS Guggenheim Mem. Fdn.	67,230 12
History	Wegs	A Social History of Vienna, Austria, 1890-1914	Amer. Council Learned Soc.	52,618 8
Medieval Inst.	Van Engen, Coleman	A Catalogue of Ambrosiana Drawings	Natl. Endow. Humanities	261,551 36
Mod. Class. Languages	MacKenzie	Responses to Pascal's <u>Lettres Provinciales</u>	Amer. Council Learned Soc.	39,069 12
Philosophy	O'Connor	Aristotelian Approaches to Justice and Friendship	Natl. Human- ities Ctr.	34,452 9
Physics	Kolata, Garg, Darden	Nuclear Reaction and Structure Studies with Heavy Ions	Natl. Sci. Fdn.	952,301 36
Psychology	Borkowski, Maxwell	Metacognition, Motivation, and Inefficient Learning	Natl. Inst. Health	93,242 12
Theology	Searle	Semiotic Analysis of Public Ritual	JS Guggenheim Mem. Fdn.	47,481 12
PROPOSALS FOR INSTRUCTIONAL PROGRAMS				
Biological Sciences	Carpenter	Aquatic Ecology REU	Natl. Sci. Fdn.	113,055 36

*Supercomputer Time.

summary of awards received and proposals submitted

IN THE PERIOD OCTOBER 1, 1987 THROUGH OCTOBER 31, 1987

AWARDS RECEIVED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	1	403,711	4	638,547	5	742,258
Facilities and Equipment	0	0	0	0	0	0
Instructional Programs	1	43,000	1	3,000	2	46,000
Service Programs	0	0	8	37,799	8	37,799
Other Programs	0	0	4	106,628	4	106,628
Total	2	146,711	17	785,974	19	932,685

PROPOSALS SUBMITTED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	11	1,259,851	36	9,960,618	47	11,220,469
Facilities and Equipment	0	0	0	0	0	0
Instructional Programs	0	0	1	113,055	1	113,055
Service Programs	0	0	0	0	0	0
Other Programs	0	0	0	0	0	0
Total	11	1,259,851	37	10,073,673	48	11,333,524

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