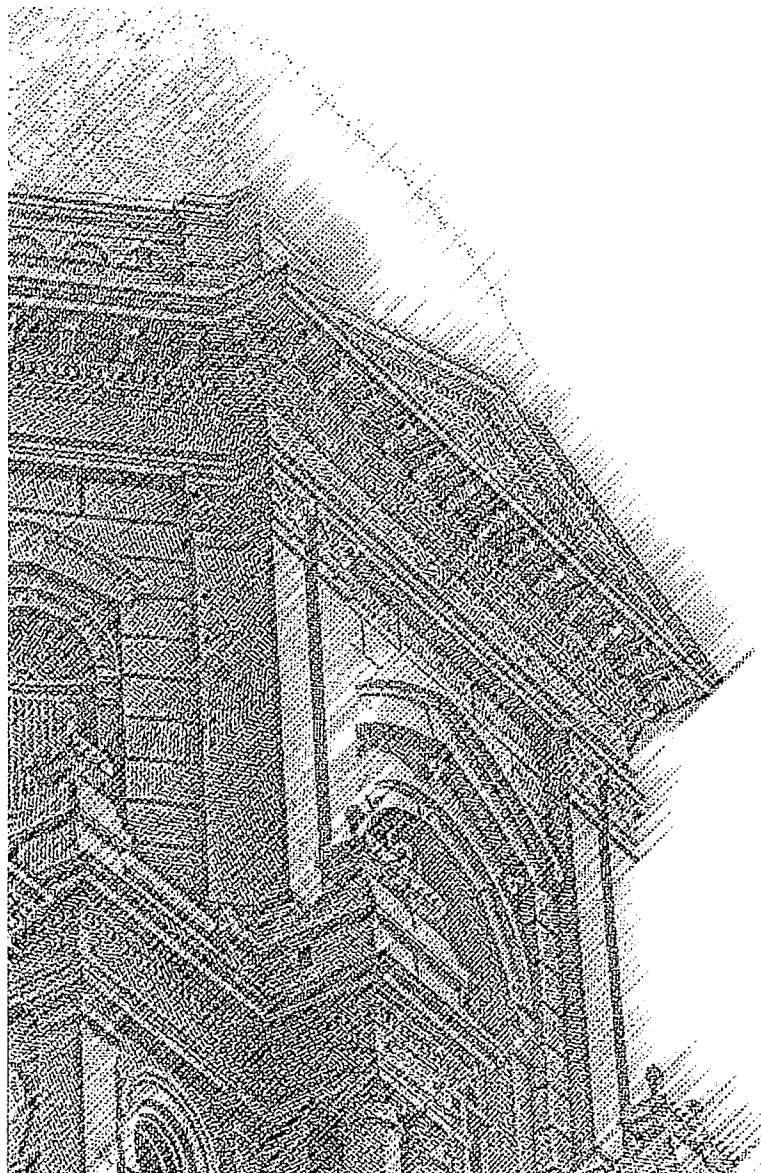


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The University

O'Connor Foundation Provides Scholarships

The University has received a four-year grant of \$60,000 from the O'Connor Family Foundation of Oklahoma City to provide scholarships for undergraduate students from the Oklahoma City area.

Recipients of the O'Connor Family Scholarships will be selected by the Notre Dame Club of Oklahoma City. The scholarships will be administered by the Office of Financial Aid at the University.

William Joseph O'Connor III, a 1989 alumnus, and his wife Kimara, both of Oklahoma City, are the donors to the O'Connor Family Foundation of Oklahoma City. O'Connor's late father, William Joseph ("Bucky") O'Connor was a 1948 alumnus.

The grant is a component of the University's \$767 million Generations campaign.

Today's Life Choices Wins Award

"Today's Life Choices," a documentary series produced by Notre Dame and Golden Dome Productions, has been awarded the Bronze Award for films and video productions on social and economic issues from Worldfest Charleston, an international film and video festival.

The award was given to the episode, "Professions in Peril: Physician Heal Thyself," a documentary examining the causes and impact of a medical profession in decline.

"Today's Life Choices" is a 30-minute series which airs in more than 60 Public Broadcasting System markets including Philadelphia, Washington, D.C., Indianapolis, Miami, New Orleans, Detroit and San Francisco. The program also airs on the cable network Odyssey, which reaches 30 million households nationwide.

Vanderbilt Establishes Malloy Chaired Professorship

Vanderbilt University has established a chaired professorship in Catholic studies in honor of Rev. Edward A. Malloy, C.S.C., president of Notre Dame and a graduate of Vanderbilt's doctoral program in Christian ethics.

Gifts totaling \$1.5 million from several sources made possible the endowment of the chair. The William K. Warren Foundation of Tulsa, Okla., which is chaired by 1956 Notre Dame alumnus William K. Warren Jr., recently completed the funding with gifts totaling \$476,000. Efforts will continue at Vanderbilt to raise additional funds to endow a Catholic studies program.

Father Malloy earned bachelor's and master's degrees in English from Notre Dame in 1963 and 1967, respectively, and a master's degree in theology in 1969. He was ordained a priest of the Congregation of Holy Cross in 1970 and in the same year became one of the first two priests to enroll in Vanderbilt's divinity school, from which he earned his doctorate in 1975.

The chair in Catholic studies is the latest devoted to the study of a particular religious tradition to be announced recently at Vanderbilt's nondenominational divinity school. Previous chairs have been established in Jewish and Wesley studies, and the school also is home to an institute for African-American church studies.

Beirne Named Marshall Scholar

Katherine Beirne, a Notre Dame senior from Rocky River, Ohio, is one of 38 Marshall Scholarship winners nationwide for 1998. She was chosen from among more than 800 candidates from 200 colleges and universities to receive one of the most competitive and prestigious merit scholarships available to undergraduates.

Unlike the Rhodes Scholarship, which awards two years of study at Oxford, the Marshall allows students to attend any university in the United Kingdom for two or three years with all expenses paid. Beirne plans to pursue a master's degree in political theory and social criticism at Queen's University in Belfast. Her focus will be on minority politics and the role of political identity within the context of Northern Ireland.

Beirne, a government and international studies major with a concentration in the Hesburgh Program in Public Service, is a Notre Dame Scholar and the 1997-98 recipient of the Lou Holtz Leadership Scholarship. A member of the government honors society Pi Sigma Alpha, she has a 3.94 grade point average and currently is completing an honors thesis on the role of religion in the divided societies of South Africa and Northern Ireland.

Beirne has been active in Student Government at Notre Dame, serving this year as director of reports to the Board of Trustees. She also has served as a student speaker for the development department and as a volunteer tutor for adults preparing for the GED at the Center for the Homeless.

A graduate of Magnificat High School in the Cleveland suburb of Rocky River, Beirne has interned during winter and summer breaks at McDonald and Company Securities, Inc., a prominent investment bank in Cleveland. She won a Truman Scholarship earlier this year with a proposal to improve the development of low-income housing in Cleveland.

After completing her studies at Queen's University, Beirne plans to use her Truman Scholarship to pursue a master's degree in public policy at Harvard University. Her long-term goals include seeking election to public office.

The Marshall Scholarships were established in 1953 as a gesture of appreciation from the British government for American assistance under the Marshall Plan, through which the United States helped Europe recover from World War II.

London Program to Be Reorganized

A reorganization of Notre Dame's undergraduate programs in London has been announced. The purpose of the reorganization is to make the London curriculum more accessible to students in colleges other than arts and letters.

Anastasia Gutting will direct this reorganization at Notre Dame. Gutting has headed the arts and letters London program for more than a decade, building it into the most popular international study program on campus while also developing its academic rigor. Her new title will be director of the undergraduate London program.

Approximately 90 students each semester currently study in London in a curriculum that focuses on British arts, humanities and social sciences. With the new facility, this number will increase to 120 in the 1999 spring semester and current planning suggests it can be raised further beginning with the 1999-2000 academic year.

Among the unique aspects of the London curriculum developed by Gutting are one-credit courses in ballet, art, music, opera and theater, three of which each student is required to take. All involve frequent attendance at London cultural events or visits with faculty to museums. The London faculty is drawn from institutions includ-

ing the London School of Economics, Cambridge and Oxford Universities, and the University of London.

As was announced earlier this year, Paul Bradshaw, professor of theology, will be director of undergraduate studies in London. Bradshaw's appointment gives the program an experienced academic on site to assist the London students and to coordinate faculty and staff responsibilities there while also assisting in the development of the curriculum and related faculty issues.

The University's new London facility, constructed in 1906 and located at 1-4 Suffolk Street, originally served as the home of the Oxford and Cambridge Men's Club and most recently was occupied by the British School of Osteopathy. With more than twice the space of the current building, it will accommodate all of the University's classroom, computer, office and study area needs.

Prior to the University's occupying the new building, it will be completely renovated and equipped with modern teaching technology. In addition to the undergraduate program, the London M.B.A. program and the Law School's London program also will move to the new facility.

Faculty Notes

Honors

Scott Appleby, associate professor of history and director of the Cushwa Center, was elected to the Board of Trustees of Saint Xavier University in Chicago, Ill.

Paquita Davis Friday, assistant professor of accountancy, has received the 1997 Outstanding International Accounting Dissertation Award from the American Accounting Association.

Mohamed Gad-el-Hak, professor of aerospace and mechanical engineering, has been named the 14th Freeman scholar by the American Society of Mechanical Engineers. This prize is the highest honor bestowed by the division of fluids engineering within the society.

Robert E. Haywood, assistant professor of art, art history and design, has been elected to the International Association of Art Critics.

Prashant V. Kamat, professional specialist in the Radiation Laboratory, was named a fellow in the Japan Society for Promotion of Science by the Japanese Ministry of Education.

Ahsan Kareem, professor of civil engineering and geological sciences, was appointed to the International Scientific Advisory Board of the Second European and African Conference on Wind Engineering in Genova, Italy.

Ruey-wen Liu, Freimann professor of electrical engineering, was appointed a distinguished lecturer by the Circuits and Systems Society of the Institute of Electrical and Electronic Engineers.

George Lopez, professor of government and international studies and fellow in the Kroc Institute, served as the interim executive director of the Educational Foundation for Nuclear Science and publisher of *The Bulletin of the Atomic Scientists*, May 1-Dec. 15. He has been elected to the Board of Directors of the Educational Foundation for Nuclear Science, effective Dec. 15.

Edward J. Maginn, assistant professor of chemical engineering, was appointed to a three-year term on the American Institute of Chemical Engineers (AIChE) committee on Engineering Sciences and Fundamentals: Thermodynamics and Transport Properties. He was appointed programming chair for this committee for the 1999 annual AIChE meeting in Dallas, Tex.

Eugene R. Marshalek, professor of physics, was elected a fellow of the American Physical Society "for pioneering contributions to the microscopic theory of nuclear collective motion, especially development of boson mapping methods."

Alven Neiman, assistant dean and concurrent associate professor in the college of arts and letters core course, was selected to the program committee of the Philosophy of Education Society for the 1998 annual meeting. He was elected by the Philosophy of Education Society to the Nominating-Elections Committee of the group for the 1998 year. He was selected as a reviewer of proposals for the Philosophy Special Interest Group of the American Educational Research Association for the 1998 annual meeting.

Carolyn R. Nordstrom, associate professor of anthropology, received the Lilly Fellows Regional Conference grant for the conference *Cultures of Violence, Cultures of Peace: Global Considerations, Local Realities*.

W. Robert Scheidt, professor of chemistry and biochemistry, and **J. Kerry Thomas**, Nieuwland professor of chemistry, were cited in the Institute for Scientific Information's "1000 Most Cited Chemists for Published work covering 1981 to June 1997."

Thomas J. Schlereth, professor of history and American studies, has been invited to serve as the historical consultant for a major museum exhibition "Walker Evans and the American Vernacular" at the Metropolitan Museum of Art in New York, N.Y.

Wilhelm Stoll, Duncan professor emeritus of mathematics, has been elected a fellow of the American Association for the Advancement of Science.

Robert P. Vecchio, Schurz professor of management, was elected a fellow of the Southern Management Association in Atlanta, Ga., Nov. 7.

Activities

John H. Adams, assistant professor of biological sciences, chaired a planning meeting for the NIAID Malaria Research and Reference Reagent Repository in Rockville, Md., Nov. 24–25. He presented an invited seminar titled "Molecular Mechanisms of Invasion by Malaria Parasite" for the Food and Drug Administration of the National Institutes of Health in Bethesda, Md., Nov. 25.

Joan Aldous, Kenan professor of sociology, presented a paper "The Social Context of Fathering in the United States" with graduate students Gail M. Mulligan and Thoroddur Bjarnason at the 34th seminar of the Committee on Family Research of the International Sociological Association at the Ma'ale Hachamisha kibbutz in Israel, May 19. She gave the paper "The Problematics of Relationships Between Grandparents and Grandchildren in the United States" at the 35th seminar of the Committee on Family Research of the International Sociological Association in Strobl, Austria, Sept. 23. Aldous and Mulligan presented research on "Does Father Know Best? Consequences for Children of Active Fathering" at the Theory Construction and Research Methodology Workshop of the National Council on Family Relations in Arlington, Va., Nov. 6.

Scott Appleby, associate professor of history and director of the Cushwa Center, delivered the lecture "Contesting the Council: American Catholicism, 1965-1990" at Loras College in Dubuque, Iowa, Nov. 10; and at the College of the Holy Cross in Worcester, Mass., Nov. 12. He delivered the 1997 Gannon Lecture "As if in Prayer: Against the Consolations of Virtual Catholicism" at Fordham University in New York, N.Y., Nov. 4.

Albert-Laszlo Barabási, assistant professor of physics, co-chaired the session "Strain Effects on Interface Stability" and gave the invited talk "Self-assembled Dislocation Free Island Formation: An Equilibrium Theory" in the session on Self-organized

Nanostructures at the fall meeting of the Materials Research Society in Boston, Mass., Dec. 1–5.

Doris L. Bergen, assistant professor of history, presented "My Brother's Keeper? The Kristallnacht Pogrom and the German Churches, 1938" at the annual lecture of the Master in Liberal Arts Program at the University of St. Thomas in Houston, Tex., Nov. 3. She gave the talk "The Significance of Daniel Jonah Goldhagen's *Hitler's Willing Executioners: Ordinary Germans and the Holocaust*" at the annual meeting of the American Academy of Religion in San Francisco, Calif., Nov. 24.

Joanne M. Bessler, librarian, presented the paper "Development Dollars and Sense" at the annual CAUSE conference in Orlando, Fla., Dec. 4.

Ikaros Bigi, professor of physics, gave the invited talk "Probing Quark-Hadron Duality: Nonleptonic Decays of Heavy Flavour Hadrons and Heavy Quark Expansions" at the fourth international workshop on Progress in Heavy Quark Physics in Rostock, Germany, Sept. 21. He delivered the invited lecture "What Do I Expect from Beauty Factories?" at the Belle Atami Workshop in Atami, Japan, Nov. 7. He gave the high energy physics seminar "The Brown Muck of Beauty – The Beauty of Brown Muck" at the Department of Physics at Nagoya University in Nagoya, Japan, Nov. 17.

Howard A. Blackstead, professor of physics, presented "Evidence of Pair-Breaking by Pr_{Ba} in $\text{Y}_{1-y}\text{Pr}_y\text{Ba}_2\text{Cu}_3\text{O}_7$ " with J. Cooley, J.D. Dow, W.L. Hults, S.K. Malik and **David B. Pulling**, assistant professional specialist in physics, J.L. Smith and W.B. Yelon at Spectroscopies of Novel Superconductors '97 in Cape Cod, Mass., Sept. 14–18. He presented "Observation of Predicted Superconductivity in $\text{Gd}_{2-z}\text{Ce}_z\text{Sr}_2\text{Cu}_2\text{TiO}_{10}$ " with Pulling, Dow and D. Goldschmidt; "Trends in Superconductivity of $\text{Nd}_{2-z}\text{Ce}_z\text{CuO}_4$ and its Homologues" with Dow; and "Superconductivity of Superlattice (Rare-Earth) $_{2-z}\text{Ce}_z\text{CuO}_4/\text{SrO}/\text{NbO}_2/\text{SrO}/\text{CuO}_2$: Relationship to Bulk (Rare-Earth) $_{2-z}\text{Ce}_z\text{CuO}_4$ " with Dow at that

conference. Blackstead presented "NdBa₂: A Primary Flux-Pinning Defect in NdBa_{2-x}Nd_xCu₃O₇" with Dow and "Unreliability of PrBa₂Cu₃O₇ and Reliability of NdBa₂Cu₂TaO₈ as Insulators for Josephson Junction Technology" with Dow at the 1997 fall meeting of the Materials Research Society in Boston, Mass., Dec. 1-5.

Joan Brennecke, associate professor of chemical engineering, co-authored the poster paper "Energy Transfer Reactions in Supercritical Carbon Dioxide" with Jianwei Zhang, Daniel P. Roek, and presented by John E. Chateaufort at the Great Lakes Photochemistry Symposium in London, Ontario, Canada, June 6-8. She presented "Measurement, Modeling and Computation of the Phase Behavior of CO₂-Based Reaction Systems" with Benito A. Stradi-Granados, **Mark A. Stadtherr**, professor of chemical engineering, and **James P. Kohn**, professor emeritus of chemical engineering, at the 1997 Green Chemistry and Engineering Conference in Washington, D.C., June 23-25. Brennecke gave the invited talk "Solvation Effects on Energy Transfer Reactions in Supercritical CO₂" to the Department of Chemical Engineering at Michigan State University in East Lansing, Mich., Sept. 4. She gave the invited talk "Fluorescence Study of Quenching Reactions of Anthracene and 1,2-Benzanthracene in Supercritical CO₂" to the Department of Chemistry at the University of Missouri at Columbia, Mo., Sept. 19. She presented "Supercritical Fluids for Environmental Applications: A Chemical Engineering Perspective" to the Department of Chemistry at Western Michigan University in Kalamazoo, Mich., Nov. 6. She gave the invited talk "Meeting the Challenges of Academia" at the Young Faculty Forum at the annual AIChE meeting in Los Angeles, Calif., Nov. 16-21. She served as chair of the session on Thermodynamic and Transport Properties of Supercritical Fluids and co-authored "Catalytic Hydrogenation of Heterocyclic Compounds in Supercritical Fluid Solvents" with Keith W. Hutchenson, Frank E. Herkes, and presented by Karen A. Connery at that meeting. Brennecke presented the invited talk

"Electron-Transfer Reactions of Triplet Benzophenone with Amines in Supercritical Ethane and Carbon Dioxide" at Argonne National Laboratory, Dec. 16. She served as chair of the Women's Initiatives Committee of the National American Institute of Chemical Engineers, 1998.

Theodore Cachey, associate professor of Romance languages and literatures, presented "Print Culture and the Literature of Travel" and was an invited discussant on the panel "Teaching Cultural Studies in Italian" at the 73rd annual meeting of the American Association of Teachers of Italian in Nashville, Tenn., Nov. 21-23.

Jianguo Cao, associate professor of mathematics, presented the invited colloquium lecture "A Sharp Isoperimetric Inequality on PL-manifold of Non-positive Curvature" at Indiana University-Purdue University in Indianapolis, Ind., Nov. 7.

Hsueh-Chia Chang, professor of chemical engineering, presented "Non-linear Suppression of Rayleigh Instability in a Capillary," "Universality of Dynamic Contact Angle Condition" and "Satellite Formation in Viscoelastic Jets" at the AIChE annual meeting in Los Angeles, Calif., Nov. He gave the talks "Fingering Instability on a Prewetted Plane" and "Interfacial Wave Dynamics and Mass Transfer" at the annual meeting of the APS Hydrodynamics Division in San Francisco, Calif., Nov.

Alice W. Cheang, assistant professor of East Asian languages and literatures, chaired a panel on Chinese drama at the symposium in honor of Professor Patrick D. Hanan held by the Department of East Asian Languages and Civilizations at Harvard University in Cambridge, Mass., Dec. 13-14.

Peter Cholak, McAndrews assistant professor of mathematics, gave the talk "The Strength of Ramsey's Theorem for Pairs" to the Mathematics Colloquium at the University of Victoria, New Zealand, Dec. 11.

Roberto A. DaMatta, Joyce professor of anthropology, presented the paper "Brazil in the Year 2000: An Exercise in Prophecy" as part of the inaugural conference Brazil Towards the 21st Century, an international seminar held at the inauguration of the recently created University of Oxford's Centre for Brazilian Studies in Oxford, England, Dec. 7-10.

Peter Diffley, associate dean in the graduate school and concurrent assistant professor of biological sciences, presented a paper titled "Using the NRC Survey for Academic Planning" at the 37th annual Council of Graduate Schools meeting held in Washington, D.C., Dec. 1-6.

Julia V. Douthwaite, associate professor of Romance languages and literatures, presented the paper "From the Electrified Boy to *Emile*: Human Experimentation in Science and Literature" at the fifth annual meeting of the Group for Early Modern Cultural Studies in Chapel Hill, N.C., Dec. 5.

William G. Dwyer, Hank professor of mathematics, gave an invited seminar talk titled "Natural Transformations" to the Mathematics Department at the University of Washington in Seattle, Wash., Dec. 12. He gave an invited presentation on "Symmetric Products, the Partition Complex, and the Steinberg Module" in a special session on homotopy theory at a meeting of the Canadian Mathematical Society held in Victoria, British Columbia, Dec. 16.

Mohamed Gad-el-Hak, professor of aerospace and mechanical engineering, presented three talks "Exact Solution of Slip-Flow in Microbearings," "Constrained Shape Optimization Using Genetic Algorithms" and "Analysis of Viscous Micropumps and Microturbines" and chaired the session "Separated and Viscous Flows" at the 50th annual meeting of the Division of Fluid Dynamics of the American Physical Society in San Francisco, Calif., Nov. 23-25.

James A. Glazier, associate professor of physics, presented "How Cells Know Where to Go" at the Physics Department Colloquium at Purdue University in West Lafayette, Ind., Dec. 4.

Dirk M. Guldi, associate professional specialist in the Radiation Laboratory, presented "Photoinduced Electron Transfer in Supramolecular Fullerene/Ferrocene System" at the GdCH Photochemistry meeting in Cologne, Germany, Nov. 19.

Glenn S. Hendler, assistant professor of English, gave the invited talk "Sentimental Men" at the American Literature Association annual symposium on American Renaissance in Cancun, Mexico, Dec. 13.

Erik A. Johnson, visiting research assistant professor of civil engineering and geological sciences, presented the paper "Finite Element and Finite Difference Solutions to the Transient Fokker-Planck Equation" co-authored with L.A. Bergman, S.F. Wojtkiewicz and **Billie F. Spencer Jr.**, professor of civil engineering and geological sciences, at the DESY Beam '97 workshop titled Nonlinear and Stochastic Beam Dynamics in Accelerators — a Challenge to Theoretical and Computational Physics in Lüneburg, Germany, Sept. 28–Oct. 3. He presented the lecture "Basic Introduction to Genetic Algorithms" at the Institut für Mechanik of the Leopold-Franzens University of Innsbruck, Austria, Oct. 9.

Prashant V. Kamat, professional specialist in the Radiation Laboratory, presented "Photochemical Solar Cells, Mechanistic and Kinetic Aspects of Dye Sensitization," "Photocatalysis with Semiconductor Nanoparticles" and "Photoinduced Changes in Metal Nanoclusters" at Osaka University in Japan, Nov. 5–10. He gave the lecture "Photosensitization Aspects of Semiconductor Nanoclusters" at Osaka Prefecture University in Japan, Nov. 7; and at Gifu University, sponsored by the Chemical Society of Japan, Tokai Branch, Nov. 12. He presented "Photocatalytic, Radiolytic and Sonolytic Degradation of Textile Azo Dyes" at the National Institute of Materials and Chemical Research in Tsukuba, Japan,

Nov. 13. He gave the lecture "Picosecond Dynamics of Silver and Gold Nanoclusters" at Nagaoka University of Technology in Japan, Nov. 14; and at Hokkaido University in Japan, Nov. 17. Kamat gave the seminar "Dye-sensitization of Nanostructures Semiconductor Materials. A Delicate Balance Between Forward and Back Electron Transfer at the Semiconductor Interface" at the Fuji Film Company in Odawara, Japan, Nov. 18. He presented "Photochemistry of Metal, Semiconductor and their Composites. Understanding the Role of Metal Nanoparticles in Improving the Photocatalytic Activity" at Tokyo University in Tokyo, Japan, Nov. 19. He presented the seminar "Photochemistry of Gold and Silver Nanoclusters. Interparticle Electron Transfer Between Metal and Semiconductor Composites" at the Tokyo Institute of Technology in Japan, Nov. 20.

Ahsan Kareem, professor of civil engineering and geological sciences, served on the Scientific Committee and gave remarks at the opening and closing sessions at the eighth U.S. national conference on Wind Engineering at Johns Hopkins University in Baltimore, Md., June 5–8. He presented "On the Formulation of ASCE7-95 Gust Factor" co-authored with G. Solari, professor at the University of Genova, Italy; "Dynamic Wind Load Simulator" co-authored with S. Kabat and Fred Hann Jr., graduate students; "Aerodynamics of TV Towers: Nanjing Tower: A Case Study" co-authored with Kabat, Hann and Tracy Kijewski; "Dynamic Wind Effects in Codes and Standards and Wind Tunnel Data: A Comparative Study" co-authored with Kijewski; and "Investigation of Interference Effects for a Group of Finite Cylinders" co-authored with Kijewski and P.C. Lu, professor at Tamkang University, Japan, at that conference. Kareem co-authored "Parametric Study of Flow Around Rectangular Prisms Using LES" presented by D. Yu; "A Conditional Simulation of Non-Normal Velocity/Pressure Fields" presented by K. Gurley, assistant professor at the University of Florida; and "The Effects of Turbulence on Long-Span Bridges" with **Albin A. Szewczyk**, professor of aerospace and mechanical engineer-

ing, presented by Fred Hann Jr., at that conference. Kareem chaired a keynote lecture session on Stochastic Simulation at the second European and African Conference on Wind Engineering in Genova, Italy, June 22–26. As president of the American Association for Wind Engineering, he made remarks at the closing session of the conference and presented the paper "Simulation of Correlated Non-Gaussian Pressure Fields" co-authored with Gurley; and co-authored "Modeling and Analysis of Quadratic Term in the Wind Effects on Structures" with Gurley which was presented by Mike Tognarelli, graduate student, at that conference. Kareem presented the paper "Simulation of Non-Gaussian Random Processes" with Gurley and co-chaired a technical session on Structural Damping at the joint American Societies of Mechanical Engineers and Civil Engineers Mechanics Conference McNU '97 at Northwestern University in Evanston, Ill., June 29–July 2. He helped develop a National Multi-Hazard Mitigation Program at an invited forum sponsored by the National Institute of Building Science and Federal Emergency Management Agency in Denver, Colo., July 2–3.

Pamela A. Krauser, associate professional specialist in the Graduate School, presented the sessions "Electronic Research Administration Case Study: The University of Notre Dame" and "Business Issues in Electronic Research Administration" at the Society of Research Administrators Electronic Research Administration Workshop in Chicago, Ill., Dec. 11.

George Lopez, professor of government and international studies and fellow in the Kroc Institute, presented "Toward More Effective and Humane Sanctions: Improving the Capacity of the United Nations System" with **David Cortright**, guest lecturer in the Kroc Institute, at a policy seminar for the Department of Humanitarian Affairs and the Inter-Agency Standing Committee of the United Nations in New York, N.Y., Sept. 9. He served as chair of the Research and Writing Committee of the Program in Peace and International Cooperation at the MacArthur Foundation in Chicago, Ill.,

Sept. 16-19. He delivered two lectures as the Rudin-Driscoll Distinguished Visiting Lecturer: "Challenges to Peace Studies in the 21st Century" and "'Wicked Problems' and Ethical Choices: The *Problematique* of the Post-Cold War World" at Iona College in New Rochelle, N.Y., Nov. 5-6. He gave two workshop presentations titled "Conflict Resolution Within the Academy" for the Committee on Institutional Cooperation at Ohio State University in Columbus, Ohio, Nov. 7.

John M. LoSecco, professor of physics, presented "Evidence for Exotic Mesons at Brookhaven" at the High Energy Physics Seminar at Harvard University in Cambridge, Mass., Dec. 11. He presented "Evidence for a New Exotic Meson" at the Laboratory for Nuclear Science Colloquium at the Massachusetts Institute of Technology in Cambridge, Mass., Dec. 12.

Edward J. Maginn, assistant professor of chemical engineering, gave the invited presentation "General Tools to Study Complex Molecule Sorption in Microporous Materials" at the Dow Chemical Company in Midland, Mich., Dec. 11.

Rev. Richard McCormick, S.J., O'Brien professor emeritus of theology, presented "A Pastoral Approach to Christian Sexuality: Heterosexuality/Homosexuality — Another Perspective" at the University of Notre Dame in Notre Dame, Ind., Nov. 18.

Rev. Ernan McMullin, O'Hara professor emeritus of philosophy, gave the plenary session address "Demonstrations and Explanatory Power: Aristotle's Choice of Astronomical Examples" at the international congress on Aristotle and Contemporary Science in Thessaloniki, Greece, Sept. 2. He gave the introductory lecture at the conference on Dissent and Orthodoxy in Quantum Mechanics in Notre Dame, Ind., Sept. 26. He presented "Nature and Imagination in the 17th Century" as the College Fellow's event at the Snite Museum, Notre Dame, Ind., Oct. 2. He spoke on "The Changing Concept of Science" at the University of Quintana Roo in Chetumal,

Mexico, Oct. 28. McMullin gave the paper "The Historical Origins of the Anthropoc Principle" at the annual meeting of the History of Science Society in San Diego, Calif., Nov. 8. He participated in the panel discussion on the question "What Would Be the Implications of Finding Fossil Life on Mars?" at the annual NASA research conference on exobiology at Ames Research Center, Nov. 17. He gave the annual Merton Lecture "From Cosmology to Theology" and gave the seminar "Evolution as a Christian Theme" at Bellarmine University in Louisville, Ky., Dec. 3-4.

Kevin M. Misiewicz, associate professor of accountancy, presented "The Art of Effective Accounting Curriculum Change: Project Discovery at Notre Dame, 1993-1997" at the colloquium on Change in Accounting Education in Scottsdale, Ariz., Nov. 13-14.

Peter Moody, professor of government and international studies, spoke on "China Today" at the Forever Learning Institute in South Bend, Ind., Nov. 26.

Stephen R. Moriarty, assistant professional specialist in the Snite Museum of Art and adjunct assistant professor in the arts and letters core course, presented the exhibit of photographs of children from El Salvador "Las Niñas/Los Niños" at the Hesburgh Center for International Studies at the University of Notre Dame in Notre Dame, Ind., Oct.-Dec. He delivered the lecture "Themes in American Photography" to the Forever Learning Institute in South Bend, Ind., Oct. 22.

Walter Nicgorski, professor in the Program of Liberal Studies, presented the paper "Almost a Philosopher: Augustine's Encounter and Assessment of Cicero" at the panel of Politica, the Society for the Study of Medieval Political Ideas, meeting at the annual meeting of the American Political Science Association in Washington, D.C., Aug. 30.

Carolyn R. Nordstrom, associate professor of anthropology, presented "The Next 100 Years of War: Or Why Is the

Imagination Suddenly Important in Anthropology?" at the invited session on Imagining War and Imagining Peace in Africa at the 1997 American Anthropological Association meetings in Washington, D.C., Nov. 19-23.

Samuel Paolucci, associate professor of aerospace and mechanical engineering, presented the papers "Non-Boussinesq Convection in a Tall Cavity near the Codimension-2 Point" and "A Generalized Asymptotic Theory of Mixed Convection Boundary Layers" and chaired two sessions he organized on "Fundamentals of Mixed Convection" at the 1997 International Mechanical Engineering Congress and Exposition held in Dallas, Tex., Nov. 16-21. He presented the paper "the Unfolding of Double-Hopf Bifurcation in non-Boussinesq Natural Convection" at the 50th annual meeting of the Division of Fluid Dynamics of the American Physical Society in San Francisco, Calif., Nov. 23-25.

Alvin Plantinga, O'Brien professor of philosophy, gave the lectures "Warranted Christian Belief," "An Evolutionary Argument against Naturalism" and "Naturalism Defeated" at Yale University in New Haven, Conn., Dec. 3-5.

Dean A. Porter, professor of art, art history and design and director of the Snite Museum of Art, presented the lecture "Defining American Modernisms, The Example of New Mexico" at the Suzanne H. Arnold Art Gallery at Lebanon Valley College in Annville, Pa., Sept. 25. He gave the invited talk "The Rise and Fall of Walter Ufer and the Taos Society of Artists" at Binghamton University in Binghamton, N.Y., Nov. 16. He gave the invited talk "Ernest Blumenschein and the Taos Society of Artists" at the Rockwell Museum in Corning, N.Y., Nov. 17.

John E. Renaud, Clark assistant professor of aerospace and mechanical engineering, served as a reviewer of unsolicited proposals on the National Science Foundation's Engineering Design Review Panel for the Division of Design, Manufacturing and Industrial Innovation in Arlington, Va., Dec. 9.

Steven T. Ruggiero, associate professor of physics, presented "Wavelength Dependent Response in YBCO Thin-Film Systems" with **Carol E. Tanner**, associate professor of physics, and A.J. Wilson at the fall meeting of the Materials Research Society in Boston, Mass., Dec.

Daniel J. Sheerin, professor of classics, delivered the paper "Spectacle and Response in Manilius' Andromeda Episode" at the annual meeting of the American Philological Association in Chicago, Ill., Dec. 29.

Gregory L. Snider, assistant professor of electrical engineering, gave the invited talk "Demonstration of a Functional Cell for Quantum-dot Cellular Automata" at the second international workshop on Surfaces and Interfaces of Mesoscopic Devices in Kaanapali, Hawaii, Dec. 8-12.

Mark A. Stadtherr, professor of chemical engineering, gave the invited talk "Large-Scale Process Optimization in a High Performance Computing Environment" at AspenWorld 97 in Boston, Mass., Oct. 12-16. He presented "Phase Stability Analysis for Equation of State Models" with J.Z. Hua and **Joan F. Brennecke**, associate professor of chemical engineering, at the national meeting of the Institute for Operations Research and the Management Sciences in Dallas, Tex., Oct. 26-29. Stadtherr served as chair of the symposium on High Performance Computing in Chemical Process Engineering at the annual meeting of the American Institute of Chemical Engineers in Los Angeles, Calif., Nov. 16-21. He co-authored "Frontal Solvers for Process Simulation: Global Reordering Strategies" presented by Kyle V. Camarda; presented "A New Approach for Reliable Computation of Homogeneous Azeotropes in Multicomponent Mixtures" with R.W. Maier and Brennecke; and presented "Combined Local and Global Approach to Reliable Computation of Phase Equilibria" with Hua and Brennecke at that meeting.

William Strieder, professor of chemical engineering, directed and co-authored the research papers "Radiation Heat Transfer Down a Compressed Spheroidal Cavity" presented by Sean Fitzpatrick and "Effects of Polydispersity and Crystal Fraction on Active Crystal/Inert Matrix Reactions and Catalysts" and "Transport Coefficients in Random Two-Phase Media with Interfaced Resistance" presented by Georgio Zoia at the 1997 annual meeting of the American Institute of Chemical Engineers in Los Angeles, Calif., Nov. 18-21.

Albin A. Szewczyk, professor of aerospace and mechanical engineering, presented the paper "Experiments on Vortex-Induced Vibrations of Pivoted Cylinders" and chaired a session on Bluff-Body/Flow Interactions at the International Mechanical Engineering Congress and Exposition in Dallas, Tex., Nov. 16-21. He presented the paper "Vortex-Induced Vibrations of Pivoted Cylinders" with F.R. Haan Jr. at the American Physical Society/Division of Fluid Dynamics meeting in San Francisco, Calif., Nov. 23-25.

Kymberly B.H. Taylor, adjunct assistant professor in the first year composition program, was the recipient of a Paula Deitz Fellowship to attend and read her work "The Givers, Tyranny of Pie, and The Cow Nosed Ray" at the Exploring Form and Narrative Poetry conference at West Chester University in West Chester, Pa., June 5-8.

James Turner, professor of history, presented "Catholic Intellectual Traditions and Contemporary Scholarship" at the Catholic Renewal Conference at Fairfield University in Fairfield, Conn., June 19-22. He gave the keynote address "Charles Hodge in the Intellectual Weather of the Nineteenth Century" at the Charles Hodge 200th Anniversary Symposium in Princeton, N.J., Oct. 22-24.

Arvind Varma, Schmitt professor of chemical engineering, co-authored the papers "Enhancing Performance of Three-phase Packed-bed Catalytic Reactors by Pulsing-flow Regime" with **Mark J. McCready**, chairperson and

professor of chemical engineering, which was presented by doctoral student Raeann Wu; "The Role of Gravity on the Mechanism of Combustion Synthesis of Advanced Materials" presented by doctoral student Aleksey Pelekh; and "Supported Pd and Pd-Ag Alloy Membranes: Relationships Between Plating Kinetics, Film Microstructure and Membrane Permeation" presented by doctoral research associate King Yeung at the AIChE annual meeting in Los Angeles, Calif., Nov. 16-21.

Raimo Väyrynen, professor of government and international studies and Regan director of the Kroc Institute, gave the address "Democracy and Conflict Prevention in Africa" at the international conference on the Role of International Cooperation in Conflict Prevention in Africa organized by the Finnish Ministry for Foreign Affairs in Helsinki, Finland, Dec. 1. He delivered the keynote address "The Asian Crisis and Economic Globalization" at the 30th anniversary symposium of the Finnish National Fund for Research and Development in Helsinki, Finland, Dec. 2.

Robert P. Vecchio, Schurz professor of management, gave the invited presentation on "Publishing in the Management Literature" at the annual meeting of the Southern Management Association in Atlanta, Ga., Nov. 7.

John P. Welle, associate professor of Romance languages and literatures, gave the invited lecture "Zanzotto and Fellini: Eros, Dialect Poetry, and the Cinema of History" in the Horizons of Knowledge series at Indiana University in Bloomington, Ind., Dec. 3.

Rev. James F. White, professor of theology, gave the Stover-Ward lectureship at St. Paul School of Theology in Kansas City, Mo., Nov. 6.

Rev. Oliver F. Williams, C.S.C., associate professor of management, presented "Current Issues in Integrating Ethics and Environmental Issues in Business Curriculum" at the Decision Sciences Institute Conference in San Diego, Calif., Nov. 24.

Eduardo E. Wolf, professor of chemical engineering, presented the seminar "STM Studies of Catalyst Activation and Deactivation" at the Chemical Engineering Department at the University of Texas in Austin, Tex. He gave the seminar "Novel Approaches to Catalysts and Reactor Design" at the Chemical Engineering Department of the University of Southern California in Los Angeles, Calif. He presented the seminar "Infrared Studies of the Dynamics of CO Oxidation on Supported Catalysts" at the Chemical Engineering Department at Caltech in Pasadena, Calif. He chaired a session on "Future Directions on Catalysis Research, Sol Gel Preparations" at the AIChE Meeting in Los Angeles, Calif., Nov. 17-20.

Kwang-tzu Yang, Hank professor of aerospace and mechanical engineering presented the paper "Turbulent Natural Convection in Enclosures — 1992 Workshop Revisited" at the 1997 International Mechanical Engineering Congress and Exhibition in Dallas, Tex., Nov. 16-21.

Publications

Scott Appleby, associate professor of history and director of the Cushwa Center, wrote "Missions and the Making of Americans: Religious Competition for Souls and Citizens" published in *Minority Faiths and the American Protestant Mainstream*, edited by Jonathan D. Sarna, University of Illinois Press, 1997, pages 232-278. He wrote "Catholics and the Christian Right: An Uneasy Alliance" published in *Sojourners in the Wilderness: The Christian Right in Comparative Perspective*, edited by Corwin E. Smidt and James M. Penning, eds., Rowman & Littlefield, 1997, pages 93-113. He wrote "Isaac Hecker (1819-1888)" published in *Makers of Christian Theology in America*, edited by Mark G. Toulouse and James O. Duke, Abingdon Press, 1997, pages 241-244.

Matthew Benedict, adjunct assistant professor of English, wrote "Side-Angle-Side" published in *Hamline Journal*, vol. 2, no. 1, 1997, pages 5-18. He wrote "Simultaneous Submission" published in *RE:AL*, vol. 22, no. 1, spring 1997, pages 8-29.

Doris L. Bergen, assistant professor of history, wrote "Germany Is Our Mission — Christ Is Our Strength!": The Wehrmacht Chaplaincy and the 'German Christian' Movement" published in *Church History*, vol. 66, no. 3, Sept. 1997, pages 522-536.

James M. Bishop, research professor of physics, **Neal M. Cason**, professor of physics, **Randal C. Ruchti**, professor of physics, and **William D. Shephard**, professor of physics, co-authored "Search for Rare and Forbidden Decays of the Charmed Meson D^+ " with P.L. Frabetti, C.J. Kennedy, G.N. Kim, T.F. Lin, D.L. Pusejic, J.A. Swiatek and Z.Y. Wu, published in *Physics Letters B*, vol. 398, 1997, pages 239-244. They co-authored "Study of Charged Hadronic Five Body Decays of the D^+ and D_s^+ Mesons published in *Physics Letters B*, vol. 401, 1997, pages 131-138. They wrote "Analysis of the D^+ , $D_s^+ \rightarrow \pi^+\pi^+\pi^+$ Dalitz Plots" published in *Physics Letters B*, vol. 407, 1997, pages 79-91.

Joan F. Brennecke, associate professor of chemical engineering wrote "Molecular Trees for Green Chemistry" published in *Nature*, vol. 389, Sept. 1997, page 25. She co-authored "A Steady-State and Time-Resolved Fluorescence Study of Quenching Reactions of Anthracene and 1,2-Benzanthracene by Carbon Tetrabromide and Bromoethane in Supercritical Carbon Dioxide" with Jianwei Zhang, Daniel P. Roek and John E. Chateaufneuf, published in *Journal of the American Chemical Society*, vol. 119, no. 42, 1997, pages 9980-9991.

Jacqueline Vaught Brogan, professor of English, wrote "Notes from the Body" published in *Kalliope*, vol. 19, no. 3, 1997, pages 27-29.

Neal M. Cason, professor of physics, **James M. Bishop**, research professor of physics, **John M. LoSecco**, professor of physics, and **William D. Shephard**, professor of physics, co-authored "Exotic Meson Signal in the η -System in π -p Interactions at 18 GeV/c" with T. Adams, E.I. Ivanov, J.J. Manak, A.H. Snajari, D.L. Stienike, S.A. Taegar and D.R. Thompson, published in *Proceedings of the Sixth Conference on the Intersections Between Particle and Nuclear Physics*, edited by T.W. Donnelly, New York, N.Y.: American Institute of Physics Conference Proceedings 412, 1997, pages 471-475.

Hsueh-Chia Chang, professor of chemical engineering, and **Albert E. Miller**, professor of chemical engineering, co-authored "Pattern Formation during Electropolishing" with V.V. Yuzhakov, published in *Physical Review B*, vol. 56, 1997, page 12608.

Danny Z. Chen, assistant professor of computer science and engineering, co-authored "Efficient Parallel Algorithms for Planar st-Graphs" with Mikhail J. Atallah and Ovidiu Daescu, published as Lecture Notes in Computer Science, *Proceeding of the Eighth Annual International Symposium on Algorithms and Computation*, edited by Hon Wai Leong, Hiroshi Imai and Sanjay Jain, Singapore: Springer Verlag, vol. 1350, 1997, pages 223-232.

James T. Cushing, professor of physics, wrote *Philosophical Concepts in Physics*, published by Cambridge, England: Cambridge University Press, 1998, 424 + xix pages.

Alan Dowty, professor of government and international studies, wrote *The Jewish State: A Century Later*, published by University of California Press, 1998, 337 + xiv pages. He wrote "Israel's First Fifty Years" published in *Current History*, vol. 97, no. 615, Jan. 1998, pages 26-31.

Elizabeth D. Eldon, assistant professor of biological sciences, co-authored "The 18-wheeler Mutation Reveals Complex Antibacterial Gene Regulation in *Drosophila* Host Defense" with Michael J. Williams, Antony Rodriguez and Deborah A. Kimbrell, published in *The EMBO Journal*, vol. 16, no. 20, 1997, pages 6120-6130.

Leonid Faybusovich, associate professor of mathematics, wrote "Linear Systems in Jordan Algebras and Primal-dual Interiorpoint Algorithms" published in *Journal of Computational and Applied Mathematics*, vol. 86, 1997, pages 149-175.

Mohamed Gad-el-Hak, professor of aerospace and mechanical engineering, and **Mihir Sen**, professor of aerospace and mechanical engineering, co-authored "Exact Solution of Slip-Flow in Microbearings" with Jérôme Maurea, published in *Bulletin of the American Physical Society*, vol. 42, no. 11, Nov. 1997, page 2178. Gad-el-Hak wrote "The Last Conundrum" published in *Applied Mechanics Reviews*, vol. 50, no. 12, part 1, Dec. 1997, pages 1-2.

Umesh Garg, professor of physics, co-authored "Identification of ^{181}Hg and Shape Coexistence in Odd-A Hg Isotopes" with P.G. Varrette, et al., published in *Physics Letters B*, vol. 410, 1997, pages 103-109.

Sonia Gernes, professor of English, wrote *A Breeze Called the Fremantle Doctor (poem/tales)*, published by Notre Dame, Ind.: University of Notre Dame press, 1997, 177 pages. She wrote "A

Globe of Glass" published in *The Georgia Review*, vol. 51, no. 3, 1997, 513-518. She wrote "Casualties" published in *New Letters*, vol. 63, no. 4, 1997, pages 69-84. She wrote "Final Approval" published in *Notre Dame Magazine*, vol. 26, no. 3, autumn 1997, pages 74-77. She wrote "The Snows of April" and "A Nest for One" published in *Family: A 25th Anniversary Collection*, edited by Kerry Temple, Notre Dame, Ind.: University of Notre Dame Press, 1997, pages 34-36, 166-171.

Dirk M. Guldi, associate professional specialist in the Radiation Laboratory, wrote "Electron Transfer Studies in $\text{C}_{78}(\text{C}_{2v})$, $\text{C}_{76}(\text{D}_2)$, $\text{C}_{70}(\text{D}_{5h})$, and $\text{C}_{60}(\text{I}_h)$ Surfactant Aqueous Solutions, published in *The Journal of Physical Chemistry B*, vol. 101, no. 46, 1997, pages 9600-9605.

Gregory V. Hartland, assistant professor of chemistry and biochemistry, and **Prashant V. Kamat**, professional specialist in the Radiation Laboratory, co-authored "Ultrafast Study of Interfacial Electron Transfer between 9-anthracenecarboxylate and TiO_2 Semiconductor Particles" with Ignacio Martini and Jose Hodak, published in *The Journal of Chemical Physics*, vol. 107, no. 19, 1997, pages 8064-8072.

Robert E. Haywood, assistant professor of art, art history and design, wrote "Performance Anxiety" at the Museum of Contemporary Art, Chicago" published in *New Art Examiner*, fall 1997, page 51. He wrote "George Bellows' Stag at Sharkey's: Boxing, Violence and Male Identity" republished in *Critical Issues in American Art: A Book of Readings*, edited by Mary Ann Calo, Westview Press, 1998, pages 243-251.

Ronald A. Hellenthal, professor of biological sciences and Gillen director of the Environmental Research Center, co-authored "New Synonymies of Chewing Lice (Phthiraptera: Amblycera, Ischnocera) Described from the Falconiformes (Aves)" with Roger D. Price and Ricardo L. Palma, published in *European Journal of Entomology*, vol. 94, 1997, pages 537-545.

Bei Hu, associate professor of mathematics, co-authored "The Profile Near Quenching Time for the Solution of a Singular Semilinear Heat Equation" with Jongsheng Guo, published in *Proceedings of the Edinburgh Mathematical Society*, vol. 40, 1997, pages 437-456.

Robert L. Irvine, professor of civil engineering and geological sciences, co-edited *Bioremediation: Principles and Practice, Volume I, Fundamentals and Applications*, with Subhas K. Sikdar, Lancaster, Pa.: Technomic Publishing Company Inc., 1998, 765 pages. He co-authored "Analysis of Bioremediation in Organic Soils" with Daniel M. White, published in *Bioremediation: Principles and Practice, Volume I, Fundamentals and Applications*, edited by Subhas K. Sikdar and Robert L. Irvine, Lancaster, Pa.: Technomic Publishing Company Inc., 1998, pages 185-220. He co-authored "Interactions Between Organic Contaminants and Soil Affecting Bioavailability" with Daniel Cassidy, published in *Bioremediation: Principles and Practice, Volume I, Fundamentals and Applications*, edited by Sikdar and Irvine, Lancaster, Pa.: Technomic Publishing Company Inc., 1998, pages 259-282. He co-authored "Aeration Through Gas-Permeable Membranes in Sequencing Batch Biofilm Reactors" with Robert Chozick, published in *Bioremediation: Principles and Practice, Volume I, Fundamentals and Applications*, edited by Sikdar and Irvine, Lancaster, Pa.: Technomic Publishing Company Inc., 1988, pages 547-575.

Lloyd H. Ketchum Jr., associate professor of civil engineering and geological sciences, wrote "Biotreatment by Sequencing Batch Reactors" published in *Environmental Engineers Handbook*, second edition, edited by David H.F. Liu and Bela G. Liptak, Boca Raton: CRC Press, 1997, pages 1347-1351.

George A. Lopez, professor of government and international studies and fellow in the Kroc Institute, co-edited *Peace and Security: The Next Generation. Readings from the Bulletin of the Atomic Scientists*, with Nancy J. Myers, Rowman and Littlefield, 1997, 275 pages. Lopez and David Cortright,

guest lecturer in the Kroc Institute, co-edited *Civilian Pain and Political Gain: Assessing the Humanitarian Impact of Economic Sanctions* with Thomas Weiss and Larry Minear, Rowman and Littlefield, 1997, 281 pages. They wrote "Economic Sanctions and Human Rights: Part of the Solution or Part of the Problem?" published in *The International Journal of Human Rights*, vol. 1, no. 2, summer 1997, pages 1-25. They wrote "Carrots, Sticks and Cooperation: Economic Tools of Statecraft" published in *Causes and Strategies for Preventative Action*, edited by Barnett R. Rubin, New York: A Twentieth Century Fund Book, 1998, pages 113-134. They wrote "Financial Sanctions: The Key to a 'Smart' Sanctions Strategy" published in *Die Friedens-Warte*, vol. 72, no. 4, Dec. 1997.

Michael J. Loux, Schuster professor of philosophy, wrote *Metaphysics*, Routledge, 1997, 240 pages.

Scott P. Mainwaring, executive director of the Kellogg Institute and Conley professor of government and international studies, co-edited *Politics, Society, and Democracy: Latin America*, with Arturo Valenzuela, Boulder, Co.: Westview, 1998, 266 + xiii pages. He wrote "Introduction: Juan Linz and the Study of Latin American Politics" published in *Politics, Society, and Democracy: Latin America*, edited by Mainwaring and Valenzuela, Boulder, Co.: Westview, 1998, pages 1-26. He co-authored "Juan Linz, Presidentialism, and Democracy: A Critical Appraisal" with Matthew S. Shugart, published in *Politics, Society, and Democracy: Latin America*, edited by Mainwaring and Valenzuela, Boulder, Co.: Westview, 1997, pages 141-169. He co-authored "Party Discipline in the Brazilian Constitutional Congress" with Anibal Perez Linan, published in *Legislative Studies Quarterly*, vol. 22, no. 4, 1997, pages 453-483.

Vaughn R. McKim, associate professor of philosophy, co-edited *Causality in Crisis? Statistical Methods and the Search for Causal Knowledge in the Social Sciences*, with Stephen P. Turner, Notre Dame, Ind.: University of Notre Dame Press, 1997, 419 pages.

Anthony N. Michel, McCloskey dean of engineering and Freimann professor of electrical engineering, co-authored "Some Qualitative Properties of Sampled-Data Control Systems" with Ling Hou and Hui Ye, published in *IEEE Transactions on Automatic Control*, vol. 42, no. 12, Dec. 1997, pages 1721-1725.

Eileen B. Mikals-Adachi, associate professor of East Asian languages and literatures, wrote "Recreating the Legend of Ono no Komachi: Enchi Fumiko's 'Komachi Henso'" published in *Ga/Zoku Dynamics in Japanese Literature*, West Lafayette, Ind.: Midwest Association for Japanese Literary Studies, 1997, pages 141-158.

Samuel Paolucci, associate professor of aerospace and mechanical engineering, co-authored "A Fast Adaptive Wavelet Collocation Algorithm for Multidimensional PDEs" with Oleg V. Vasilyev, published in *Journal of Computational Physics*, vol. 138, 1997, pages 16-56. Paolucci co-edited *Proceeding of the ASME Heat Transfer Division*, vol. 3, HTD-vol. 353, with M.E. Ulucakli, D. Wroblewski, P.H. Oosthuizen, T.S. Diller, A.F. Emery, D. Kaminski and R.W. Douglass, New York: ASME, 1997, 373 pages. Paolucci co-authored "A Generalized Asymptotic Theory of Mixed Convection Boundary Layers" with Michael M. Chen, published in *Proceeding of the ASME Heat Transfer Division*, vol. 3, HTD-vol. 353, edited by M.E. Ulucakli, et al., New York: ASME, 1997, pages 193-197. Paolucci co-authored "Non-Boussinesq Convection in a Tall Cavity Near the Codimension-2 Point" with Sergey A. Suslov, published in *Proceeding of the ASME Heat Transfer Division*, vol. 3, HTD-vol. 353, edited by M.E. Ulucakli, et al., New York: ASME, 1997, pages 243-250. They wrote "The Unfolding of a Double-Hopf Bifurcation in non-Boussinesq Natural Convection" published in *Bulletin of the American Physical Society*, vol. 42, no. 11, 1997, page 2146.

Morris Pollard, Coleman director of the Lobund Laboratory and professor emeritus of biological sciences, wrote "Model Systems for Experimental On-

cology" published in *Germfree Life and its Ramifications*, edited by K. Hashimoto, et al., Shiozawa, Japan: XII ISG Publishing Committee, 1996, pages 383-386.

John E. Renaud, Clark assistant professor of aerospace and mechanical engineering, **Jay B. Brockman**, assistant professor of computer science and engineering, and **Stephen M. Batill**, director of the Hessert Center and professor of aerospace and mechanical engineering, co-authored "Design Flow Management and Multidisciplinary Design Optimization in Application to Aircraft Concept Sizing" with B. Wujek and E.W. Johnson, published in *Chapter 13, Integrated Product and Process Development: Methods, Tools, and Technologies*, edited by J.M. Usher, H.R. Parsaei and U. Roy, John Wiley & Sons, Inc., 1998, pages 355-376. Renaud co-authored "A New Multilevel Multiobjective Optimization Strategy" with graduate research assistant R.V. Tappeta, published in *Design Optimization with Applications in Industry*, ASME AMD, vol. 227, pages 49-64, edited by R.J. Yang and D.E. Smith, presented at Joint ASME/ASCE/SES Summer Meeting, Evanston, Ill., June 29-July 2, 1997. Renaud co-authored the conference proceeding "Convergence of Trust Region Augmented Lagrangian Methods Using Variable Fidelity Approximation Data" with graduate research assistant J.F. Rodriguez and L.T. Watson, published in *WCSMO-2 Proceedings of the Second World Congress of Structural and Multidisciplinary Optimization*, edited by W. Gutkowski and Z. Mroz, Warsaw, Poland: Institute of Fundamental Technological Research, Polish Academy of Science, vol. I, 1997, pages 149-154.

Gretchen J. Reydam-Schils, assistant professor in the Program of Liberal Studies, wrote "Plato's World Soul: Grasping Sensibles without Sense-Perception" published in *Interpreting the 'Timaeus-Gitias': Proceedings of the IV Symposium Platonicum, selected papers, International Plato Studies 9*, edited by L. Brisson and T. Calvo, Sankt Augustin: Academia Verlag, 1997, pages 261-265.

Peter E. Schiffer, assistant professor of physics, co-authored "Two-population Model for Anomalous Low-temperature Magnetism in Geometrically Frustrated Magnets" with I. Daruka, published in *Physical Review B*, vol. 56, no. 21, 1997, pages 13712-13715.

Robert Schmuhl, professor of American studies, wrote "Pride and Joy" published in *Chicago Tribune*, Nov. 16, 1997, section 14, page 3. He wrote "Richard Ben Cramer" published in *Dictionary of Literary Biography*, vol. 185, edited by Arthur J. Kaul, Detroit and Washington, D.C.: Gale Research, 1997, pages 46-55. He wrote "So Long, Civility" published in *Chicago Tribune*, books section, Oct. 26, 1997, page 3.

Mark A. Schneegurt, research assistant professor of biological sciences, co-authored "CELLS-3D: A Broad Computer Model Simulating a Controlled Ecological Life Support System" with Louis A. Sherman, published in *Life Support and Biosphere Science*, vol. 4, 1997, pages 3-20.

Mihir Sen, professor of aerospace and mechanical engineering, and **Mohamed Gad-el-Hak**, professor of aerospace and mechanical engineering, co-authored "Constrained Shape Optimization Using Genetic Algorithms" with M.C. Sharatchandra, published in *Bulletin of the American Physical Society*, vol. 42, no. 11, Nov. 1997, page 2202. Sen and Gad-el-Hak co-authored "Analysis of Viscous Micropumps and Microturbines" with David DeCourtye, published in *Bulletin of the American Physical Society*, vol. 42, no. 11, Nov. 1997, page 2178.

Slavi C. Sevov, assistant professor of chemistry and biochemistry, co-authored "Synthesis and Characterization of a New Cobalt Aluminophosphate with an Open-Framework Structure" with Ranko P. Bontchev, published in *Chemistry of Materials*, vol. 9, 1997, pages 3155-3158.

Thomas L. Shaffer, Short professor emeritus of law, wrote a review of Harry M. Clor, *Public Morality and Liberal Society: Essays on Decency, Law, and Pornography*, published in *Theological Studies*, vol. 58, 1997, page 770.

Maoyu Shang, adjunct research professor of chemistry and biochemistry, and **Thomas P. Fehlner**, Grace-Rupley professor of chemistry, co-authored "Clusters as Ligands. 5. Tricobalt Cluster Alkoxy-carboxylates of Titanium and Zirconium Exhibiting Novel Structures and Properties" with Xinjian Lei, published in *Organometallics*, vol. 16, 1997, pages 5289-5301. Shang and Fehlner co-authored "Clusters as Ligands. 6. Mixed-Metal Cluster Carboxylates of Titanium and Zirconium Derived from $(\eta^5\text{-C}_5\text{H}_5)\text{M}'(\text{CO})_2\text{Co}_2(\text{CO})_6(\mu_3\text{-CCOOH})$, $\text{M}' = \text{Mo}, \text{W}$ " with Hiroshi Shimomura and Lei, published in *Organometallics*, vol. 16, 1997, pages 5302-5311. Shang and **W. Robert Scheidt**, professor of chemistry and biochemistry, co-authored "A Pyridine-Sensitive Venus Flytrap Porphyrin" with Marinella Mazzanti, Jean-Claude Marchon, Songling Jia and John A. Shelnutt, published in *Journal of the American Chemical Society*, vol. 119, 1997, pages 12400-12401.

Steven B. Skaar, associate professor of aerospace and mechanical engineering, co-authored "Using Probability Estimates to Identify Environmental Features for a Nonholonomic Control System" with J.D. Yoder and H. Arriola, published in *Journal of Guidance, Control, and Dynamics*, vol. 20, no. 6, Nov.-Dec. 1997, pages 1215-1220.

Kazimierz Sobczyk, Massman visiting professor of civil engineering and geological sciences, and **Billie F. Spencer Jr.**, professor of civil engineering and geological sciences, co-authored "A State-of-the-Art Report on Computational Stochastic Mechanics" with L.A. Bergman, C.G. Bucher, G. Dasgupta, G. Deodatis, R.G. Ghanem, M. Grigoriu, M. Hoshiya, E.A. Johnson, A. Naess, H.J. Pradlwarter, G.I. Schueller, M. Shinozuka, P.D. Spanos, A. Sutoh, T. Takada, W.V. Wedig, S.F. Wojtkiewicz, I. Yoshida, B.A. Zeldin and R. Zhang, published in *Probabilistic Engineering Mechanics*, vol. 12, no. 4, 1997, pages 197-321.

Billie F. Spencer Jr., professor of civil engineering and geological sciences, and **Michael K. Sain**, Freimann professor of electrical engi-

neering, wrote "Controlling Buildings: A New Frontier in Feedback" published in *IEEE Control Systems*, Special Issue on Emerging Technologies, vol. 17, no. 6, Dec. 1997, pages 19-35.

Laurence R. Taylor, professor of mathematics, wrote "An Invariant of Smooth 4-manifolds" published in *Geometry and Topology*, vol. 1, 1997, pages 71-89.

Steve Tomasula, assistant professional specialist in English, wrote the essays "[Re]Imagining the Book" and "Image and Narrative: A Layered Thing" which were published in *Upper and Lower Case*, vol. 24, no. 1, summer 1997, pages 10-15+. His short story "toc" was reprinted in the *Abiko Quarterly James Joyce Studies*, vol. 9, no. 17, winter-spring 1997-98, pages 352-370. His essay "Ways of Seeing/Ways of Being" was published in the *Electronic Book Review*, no. 7, winter 1997-98, in an issue devoted to narrative theory and image which he co-edited with Anne Burdick. His review of Stacey Levine's novel *Dra—* (Sun & Moon) appeared in *Rain Taxi*, vol. 2, no. 4, winter 1997, page 15.

Chris R. Vanden Bossche, professor of English, wrote a review of Clyde de L. Ryals, et al., *Collected Letters of Thomas and Jane Carlyle*, published in *Victorian Studies*, vol. 40, 1996, pages 180-182.

Arvind Varma, Schmitt professor of chemical engineering, co-authored "Effects of Gravity on Combustion Synthesis in Heterogeneous Gasless Systems" with A. Mukasyan, A. Pelek, A. Rogachev and A. Jenkins, published in *AIAA Journal*, vol. 35, 1997, pages 1821-1828. He co-authored "Combustion Synthesis in Gasless Systems Under Microgravity Conditions" with Mukasyan and Pelek, published in *Journal of Materials Synthesis and Processing*, vol. 5, 1997, pages 391-400.

Rev. James F. White, professor of theology, wrote "How to Eat" published in *The Furrow*, vol. 48, Nov. 1997, pages 604-606.

Kwang-tzu Yang, Hank professor of aerospace and mechanical engineering, co-authored "Turbulent Natural Convection in Enclosures — 1992 Workshop Revisited" with J.M. Londino, published in *Proceedings of the ASME Heat Transfer Division*, HTD-vol. 353, vol. 3, edited by M.E. Ulucakli and M.R. Amin, New York: American Society of Mechanical Engineers, 1997, pages 13-20.

John Howard Yoder, professor of theology, wrote a review of *Confusions in Christian Social Ethics: Problems for Geneva and Rome* by Ronald H. Preston, published in *Pro Ecclesia*, vol. 6, no. 4, 1997, pages 496-498.

Deaths

Brian Crumlish, professor of architecture, Nov. 27. A member of the Notre Dame faculty since 1964, Crumlish taught courses on the technical aspects of architecture as well as introductory design. He was among the most active practitioners on the faculty, working in partnership since 1991 with his son, Brendan, and for 25 years previously with colleague Donald Sporleder, professor of architecture. Projects in which Crumlish was involved include the 100 Center, Queen of Peace Church and Timberland Bible Church in Mishawaka; St. Pius X Church in Granger; the School of Architecture facility at Ball State University; and renovations to the University Club at Notre Dame. He and Sporleder also designed Sports Heritage Hall in the Joyce Center on campus and served as consultants for historic preservation surveys for the city of South Bend and St. Joseph County. Crumlish was graduated from the University of Illinois with a bachelor's degree in architectural engineering in 1951 and earned his master of science degree in architecture there in 1954. He spent two years in post-graduate studies at the University of Rome and the University of Venice. Prior to joining the Notre Dame faculty, Crumlish served as a project architect at the University of West Pakistan and taught at his alma mater. He previously was a partner in the Woodstock, Ill., architectural firm Anderson and Crumlish from 1958 to 1962 and worked as an architectural designer for two years with firms in Rome and St. Louis.

John Howard Yoder, professor of theology, Dec. 30. Yoder was graduated from Goshen College in 1947 and received a doctoral degree in theology from the University of Basel, Switzerland, in 1962. He taught theology at Goshen Biblical Seminary (now called Associated Mennonite Biblical Seminary) from 1965 to 1984 and served as its president from 1970 to 1973. A specialist in Christian ethics who joined the Notre Dame theology faculty in 1977, Yoder was a devout Mennonite who believed that nonviolence is an imperative for all Christians. He resisted the notion that Christians should be assimilated into secular society and insisted that the church is itself an entirely new society which embodies the forgiveness and self-sacrificing love of Jesus. His scholarship and teaching have profoundly influenced theological discussions about war, social justice, and the relationship between church and state. He is the author of several books including *The Priestly Kingdom*, *What Would You Do?* and *The Politics of Jesus*.

Administrators' Notes

Activities

Russel Kitchner, assistant director for graduate placement, gave the keynote address "Placing Ph.D.s in Non-Academic Settings" at the annual Association of Graduate Schools in Catholic Colleges and Universities held in Washington, D.C., Dec. 4.

Lori Maurer, assistant director of residence life, spoke on a panel discussing issues in student life on college campuses at the National College Board Conference in Chicago, Ill., Oct. 27.

Publications

Alan S. Bigger, director of building services, wrote "How to Maintain Hard Surfaces . . . Without Being 'Floored'!" published in *Executive Housekeeping Today*, Jan. 1998, pages 24-26. Alan Bigger and **Linda B. Bigger**, assistant director of purchasing, wrote "Avoid Getting Hauled Across the Carpet" published in *Total/Maintenance Review*, Jan./Feb. 1998, pages 34-35. They wrote "A Quicker Picker-Upper: Guide to Purchasing Vacuum Cleaners" published in *Total/Maintenance Review*, Jan./Feb. 1998, pages 34, 36.

Deaths

Rev. Jerome J. Wilson, C.S.C., former vice president for business affairs, Jan. 2. A 1932 Notre Dame alumnus, Father Wilson worked for the Bendix-Westinghouse Corporation of Elyria, Ohio, for nine years before entering Holy Cross Seminary in 1942. Ordained a priest in the Congregation of Holy Cross seven years later, he served the University in a wide variety of posts from 1949 to 1978. In addition to the post of vice president for business affairs, in which he served from 1952 to 1976, Father Wilson had taught accounting, directed the Old College Seminary Program and administered the physical plant. After retiring from the Notre Dame administration in 1978, he served in campus ministry at Saint Mary's College, assisted in the ministries of Saint Joseph Parish, served as chaplain at Holy Cross Care and Rehabilitation Center in South Bend and was a member of the staff of Moreau Seminary.

Documentation

Faculty Senate Journal

October 15, 1997

The chair, Professor Michael Detlefsen, called the meeting to order at 7 p.m. in room 202 of the Center for Continuing Education and asked Professor Greg Sterling to offer a prayer. The journal for the meeting on September 17, 1997, was presented and unanimously approved.

Professor Detlefsen then made his Chair's Report, which is printed as Appendix A of this journal. Detlefsen reviewed the progress achieved by the Select Committees on Political Concerns and Foreign Visitors; thanked senators for questions submitted for delivery to Father Malloy; discussed briefly his presentation to the Academic and Faculty Affairs Committee of the Board of Trustees; and discussed final standing committee assignments.

Professor Detlefsen then asked committee chairs to give their report:

Academic Affairs. The chair, Professor Gregory Sterling, reported that his committee has three subcommittees working on three different issues:

a. Electronic services at the library. They have corresponded with Maureen Gleason, acting director of University Libraries, who has written a letter concerning the library's progress in updating previous library computerization proposals. Additionally they will meet with the new director of the library, Jennifer Younger, when she arrives on campus. The committee then expects to submit a new set of proposals for consideration.

b. Notre Dame's standing in the *U.S. News and World Report* Collegiate rankings. They have been actively researching the *U.S. News and World Report* Web site and met with Eva Nance, director of institutional research. Three major areas where Notre Dame appears to be suffering in the rankings include:

1. The 13:1 student to faculty ratio is too high.

2. The amount of money spent per student.

3. The amount of money spent per faculty member.

c. The state and future of computer services. Larry Rapagnani, assistant provost for computing, has been invited to the committee's December meeting to answer questions.

Administration. The chair, Professor Clive Neal, reported the committee has taken the following action:

a. All of the information concerning faculty alcohol policies at other universities has been distributed. The committee is studying these reports.

b. The committee has re-established communication with the University Committee on Women and they will be exploring issues where the Faculty Senate committee can provide help to the University committee.

c. Prof. Neal reported that he has joined the University Committee on Graduate Student Benefits.

d. By next meeting the committee hopes to have sent out a survey to adjunct faculty soliciting their input on representation on the Faculty Senate.

Student Affairs: The chair, Professor Ava Preacher, reported that the committee has met and broken up into subcommittees that will look at the following issues:

a. The follow-up on the student bill of rights resolution from last year.

b. The inequality in disciplinary actions for students awarded from the Office of Student Affairs. Jeff Shoup, director of residence life, has agreed to meet with the committee to discuss current procedures.

c. A review of the student alcohol policy and forthcoming report from the Office of Student Affairs, on the implications of alcohol use on this campus.

d. Academic support services for students beyond the first year of studies.

e. Bridging the gap between academic and residential life.

Benefits. The chair, Professor Kathleen DeLanghe, reported that her committee has been working on the following issues:

a. Recent TIAA-CREF issues. Preliminary discussion with Roger Mullins, associate vice president for human resources, indicates that TIAA-CREF will send information to Mr. Mullins at which point that information will be shared with the committee.

b. Benefits packages. Benefits packages available to faculty will be compared to packages available to the same category of faculty at peer institutions as a preliminary study. Reports from 1986-87, 1990-91, 1991-92, 1992-93 have been obtained and recommendations will be made on a course to follow.

c. Retiree issues. Nothing new to report. Included in this discussion is the Plan 2000 insurance issue, and long-term health care.

d. Bookstore discounts. Investigation is in progress and a report will be made to the committee at the next meeting.

e. Student health care issues. A report is being prepared on graduate student health care issues in conjunction with the Administration Committee.

f. Birth control and other health care issues. Prof. DeLanghe met with Roger Mullins to discuss the birth control issue. Recommendations will be made to the committee at the next meeting.

g. Faculty children tuition credit. Prof. Borelli met with Roger Mullins on this subject in regard to a fixed dollar amount instead of a time requirement. He will make a report to the committee.

At 7:19 p.m., the senate was placed in recess, awaiting the arrival of Father Edward A. Malloy, president, University of Notre Dame.

At 7:30 p.m., the senate was reconvened for Father Malloy's annual address to the senate and to allow Father Malloy to respond to previously submitted questions from senators (Appendix B) and questions from the floor. Appendix C is the transcript of his remarks.

At 9:12 p.m., adjournment was called for and agreed on.

Present: Bayard, Bergstrand, Bigi, Blakey, Borelli, Cachey, Cleveland, Coll, Cosimano, Davis, DeLanghe, Detlefsen, Eagan, Fein, Fraser, Freeh, Hemler, Jordan, Lauer, McBrien, Munzel, Neal, Paolucci, Pickett, Preacher, Quinn, Ramsey, Sheehan, Sheerin, Sporleder, Sterling, Sullivan, Urbany, Waddell, Warfield, Williams, Zachman

Absent: Berry, Chami, Down, Godmillow, Hill, Kelly, Lamana, Mossing, Schmid

Excused: Wayne

Respectfully Submitted,

Russell A. Pickett
Co-Secretary

Appendix A

Chair's Report, Meeting of October 1997

There are four items to report:

(1) Select Committees on Political Concerns and Foreign Visitors:

(a) Committee on Political Concerns: Directly after our last meeting I sent Nathan Hatch a note asking him for recommendations of people from his office to serve on this committee. This morning I received an e-note from him suggesting either James Merz or Timothy Scully. I have forwarded his note to Laura Bayard, acting convener of this meeting, asking her to survey the committee to determine which, if either, of these they would like to have join them. Once this decision is made,

the committee will be at full force and can begin its work.

(b) Committee on Foreign Visitors: You will recall that I asked for volunteers to sit on this committee at the last meeting. Apparently, the e-mail system here has failed because I've received no notes from volunteers. To solve this problem, I will be making contact (in the dark of night, if necessary) with individual senators to attempt to persuade them of the importance of this matter. I plan to make an offer they can't refuse.

(2) Questions for Father Malloy. I want to thank all those senators who sent in questions for tonight's visit with Father Malloy. I apologize to those whose questions did not make it on the final list (assembled by the executive committee at their meeting last week (October 8)). In some cases this was due to considerations of time and relative importance; in others it was owing to the questions having arrived too late to be included. After tonight's meeting, I will be forwarding to Father Malloy the questions that didn't make it onto the list sent him.

(3) Presentation to the Academic and Faculty Affairs Committee of the Board of Trustees. Tomorrow (Thursday, October 16), I will be making a presentation to this committee on faculty concerns. The substance of what I have to say reflects the concerns that have been expressed to me by faculty both on and off the senate. A summary of my remarks will be available on the senate Web page as soon after the meeting as the senate secretary is able to enter it.

(4) Committee Assignments: Having not heard from a number of senators concerning their preferences for standing committee service, I am issuing one last call for such. If you have not already been assigned to a standing committee and have a preference for such an assignment, please contact me by Wednesday, October 22. If I don't hear from you by then, I will make the assignment myself. This is the last call.

Appendix B

Questions for Father Malloy

(1)(a) A sizable minority of the Notre Dame family (viz., a portion of the graduate students with families) is currently under great hardship under the existing health insurance plan. This is, of course, a problem at universities throughout the nation. Development of a functional, effective, and affordable health policy for graduate students may therefore require that Notre Dame become a leader in this area. Would you be willing to assume a role of leadership in this regard? More immediately, would you be willing to prod the University Committee on Graduate Student Benefits to action so that these concerns might be brought to a timely and effective resolution?

(b) The expertise and information available within the Department of Human Resources would be invaluable in developing a fair and effective health policy for our graduate and undergraduate students. Would you use the influence of your office to put Human Resources at the disposal of the various groups working together on this problem?

(2) As you acknowledged in your address to the faculty of October 7, one of the critical issues facing the College of Arts and Letters is space, especially office space for faculty and graduate teaching assistants and classroom space. What specific plans does the administration have to alleviate this problem?

(3) You have assured the faculty on more than one occasion that the implementation of the pontifical document *Ex Corde Ecclesiae* is not likely to involve the imposition of mandates on Catholic theologians. If it should happen that the U.S. bishops accede to the Vatican's demands in this regard, what will be the policy of the University toward Catholic members of the theology department who either refuse to apply for or accept a mandate from the local bishop, or who are denied such a mandate?

(4)(a) Also in your address to the faculty of October 7 you commented that

Notre Dame gets hurt in such national rankings as those in *U.S. News and World Report* because of 'academic reputation.' Would you please give a more precise explanation of what you meant by that and also clarify what you take 'academic reputation' in such rankings to consist in and why you think we should or should not be concerned about it? (b) Why isn't there a closer correlation than there is between our academic ranking and our financial ranking?

(5) There have been claims circulating that the \$8 million that was lost because of last year's football team's failure to qualify for a postseason bowl game had a negative effect on the funding of some academic programs. Is there any basis to such claims? Is it the policy and/or practice of the administration to tie the funding of specific academic programs to postseason bowl games?

(6) Recognizing that the University has not only the right but also the duty to sometimes terminate employees, why have the public explanations from the administration regarding the recent dismissal of the band announcer, Frank Amussen, been inconsistent with the facts of the case? Specifically, who instructed Band Director Luther Snavely to tell the *South Bend Tribune* that Mr. Amussen had retired, when, in fact, he was fired? Who in the administration gave the order for his firing? The concern is not so much over the termination of the band announcer as with the truthfulness of the University's representatives in their dealings with the University community and the public.

(7) In your May 3 letter to alumni and friends reviewing the goals and purposes of our most ambitious development campaign, you stated (goal #2) that "we will reemphasize the crucial nature of the on-campus residential experience for the undergraduate students . . . [and] carry forward and enlarge the coeducational and multicultural commitments of the last decade so that our students may discover in one another a rich resource for learning outside the classroom. . . ." What specific plans and changes do you have in mind?

(8) The Committee on Administration of the Senate is taking up the issue of a Faculty Alcohol Policy. This issue has a history extending back at least until 1988. To assist the development of a worthwhile and beneficial recommendation, would you please say whether (and, if so, why) you think Notre Dame should have such a policy. If you think it should, would you please give your advice concerning what it ought to contain?

Appendix C

**Rev. Edward A. Malloy, C.S.C.,
President of the University of
Notre Dame
Faculty Senate Annual Address
October 15, 1997**

Father Malloy began his remarks to the senate with a brief review of the main points that he had recently made in his Annual Address to the Faculty. He spoke of: the recent conversations with the new leaders of Saint Mary's College and IUSB; the continued, strong University commitment to the policy of affirmative action; the progress being made in the University libraries and the appointment of a new director, Jennifer Younger; the centrality of financial aid and the progress that has been seen; the 35 new faculty positions that have been added in recent years, primarily through the operating budget and the need to turn to endowed chair monies for future faculty expansion.

With regard to institutional rankings, which was a topic in the address and also a prior question from the senate; Father Malloy tried to contextualize their significance. He said that rankings, like the *U.S. News and World Report*, are rather arbitrary method of evaluation. But the rankings are taken seriously by students and parents at all degree levels. When it comes to the various criteria in the *U.S. News* ranking of undergraduate programs, Notre Dame is very strong on graduation rates and alumni satisfaction among other things. We came out much lower on academic reputation. What drives academic reputation is the quality of the graduate and professional programs of the institutions that are

being evaluated because very few have direct access to the quality of the undergraduate programs as such. The method that the magazine employs is to send a survey instrument to the president, provost and admissions director of each school in your category. They each are asked to place all peer institutions in one of four levels. Notre Dame is making progress in the perception that the leaders of our peer institutions have of us. But we have no Nobel Prize winners and a limited number of elected members of the major academic honorary societies. Some faculty have been heads of national associations in specific scholarly areas. Overall, our faculty are more visible than in the past. Our undergraduate students are competing successfully for Rhodes, Marshall, and Fulbright awards, etc. But we need to do a better job of developing and making visible both the quality of our faculty and student body.

The second category where we came out relatively low in the *U.S. News* rankings was financial resources per undergraduate student. This is a phony statistic. Many of the institutions in our category have large graduate and professional school populations. It is very difficult to differentiate in their overall academic budgets how much goes to undergraduate education and how much to graduate. You could also argue that we are delivering a better product for less money.

Father Malloy went on to review other items from his address including: campus construction, highlighting the Bookstore/Eck Visitor Center and the approval to go ahead on the DeBartolo Center for the Performing Arts and the continuing attention to the Science Teaching Facility project; the committee headed by Jeff Kantor and Jim Lyphout to review campus space needs, with a full recognition of the particular need in the College of Arts and Letters for additional faculty office space; the progress made in computerization; academic leadership transitions; the gratifying early success of the Generations Campaign; the increasing pressures on the operating budget and the need for limited tuition increases and for budgetary discipline.

After these summary reflections about topics covered in his Address to the Faculty, Father Malloy turned explicitly to some questions submitted in advance by the Faculty Senate.

One question had to do with health care costs for graduate students. There is general recognition by the officers of the University that this is a major concern of the graduate students. Jim Merz introduced this topic at the summer officer meeting at Land O'Lakes and Nathan Hatch, Bill Beauchamp and Roger Mullins have all been involved in subsequent conversations. A committee has been established and they are hard at work exploring the options. What has to be weighed in such deliberations is the relative importance of different variables in the support provided to graduate students and how this total package compares to other major items in the operating budget.

Another question had to do with the discussions related to the papal document *Ex Corde Ecclesiae* and its application to the context of American Catholic higher education. I have been a very strong voice from the beginning of the conversation that has led up to *Ex Corde Ecclesiae*. As a member of the Bishops/Presidents Implementation Committee I have said consistently and constantly that a mandate, in light of its incorporation into canon law, is impossible in my judgment to implement in the American context. That continues to be my position. I am still basically hopeful that the process under way will not lead to any variation in what the American Catholic bishops approved. If the mandate does become an issue, you cannot do the impossible, neither theoretically nor practically is anything related to the mandate a desirable or healthy thing for Catholic higher education either here or anywhere else and I do not support it. That is about as clear as I can be about the issue.

Another question was about the relationship between the funding of academic priorities and unbudgeted income from athletics.

Any money that we make from postseason involvement goes into financial aid. The dollars go primarily into undergraduate financial aid with a smaller percentage going into professional and graduate school aid. If we do not have such unbudgeted money in a given year, we simply cannot spend it. There is never any connection between our athletic programs and what we can do in terms of academic program development or hiring of faculty. I do not understand the question because it has no connection to anything we have done in the history of the utilization of these funds.

The next question had to do with a personnel matter related to the marching band. I do not know why the question was brought up in this forum. I know nothing about the issue. If someone has a question, it should be directed to Nathan Hatch or Patty O'Hara, both of whom oversee the Notre Dame bands.

The following question had to do with student life and its priority for undergraduates. I think that the programming that we presently have under Student Affairs is doing some marvelous things, including the outreach in the diversity of programs we have under the auspices of Campus Ministry. There is a perpetual need to have some benchmarking in this regard. In contemporary undergraduate life people go around in large groups for social events. There is too often patterns of heavy drinking. This sometimes affects sexual conduct and respect across the genders. Some campuses have had terrible problems with violence both between students and between students and outsiders. We have been relatively fortunate in this regard. We have added a fair number of personnel in student support services. This is one of the cost factors in contemporary higher education. We are far from perfect but I think there is some excellent programming. We need to continue to reflect about ways in which we can enhance the coeducational environment and the multicultural environment. We are not immune from the pressures faced by the broader world around us including other higher educational institutions.

The last question is about a faculty alcohol policy. Actually, many years ago, I came to the senate and asked for assistance in this regard. We had existing policies at that time for students and for staff. There was also a federal regulation that mandated a policy for faculty as well. Unfortunately, nothing was forthcoming from the senate. I am sure that there was discussion, but nothing concrete happened. Some objected that the policy would be used as an excuse to fire people or that it was excessive administrative intrusion. My whole intention in bringing the matter to the senate was that I knew faculty members in my time at Notre Dame, some well known and highly regarded, who were chronic alcoholics and who died sad, terrible deaths. Nobody ever took the issue on. Nobody seemed to think that there was any connection between this sickness and peer responsibility. In my own religious community I have seen an amazing change in this regard. We developed a policy, implemented it vigorously, and some developed an expertise in intervention. There are many people who are healthy and functioning well who in the past would have been warehoused, written off, or kept on the sidelines. I think it is great to see what an enlightened policy can mean. It is not easy to establish a policy for faculty who are used to a degree of independence. What I hope would emerge from this conversation is a mutual accountability as professionals. The intent after intervention is to bring someone to health, not to punish them. Only when all alternatives have been exhausted would the interveners move to the next level of something to try to bring the person to recognition. I feel the same way about this as I do with addiction to other substances or gambling. What form such a policy should take is where we need the help of the senate. In the end the policy needs to be seen as life giving and restorative rather than an attempt to malign one's reputation unnecessarily.

QUESTIONS FROM THE FLOOR OF THE SENATE:

Prof. Blakey: You have reported to us in the past statistics that can be fairly described as deplorable in the hiring of Catholics at the University. If we are a Catholic university, the long run expectation is that we will not remain that unless a significant portion of our faculty is Catholic. How do we stand?

Father Malloy: I think we are seeing a vigorous effort in some parts of the University to identify, recruit, and seek to hire Catholic faculty, and I think in other parts of the University we are not seeing either the effort or the results that I think would be desirable. I've had this conversation, as you know, here and elsewhere. I remain firm in my convictions that if Notre Dame does not maintain the level of faculty who are committed Catholics that I tried to articulate in the Colloquy, that we will become a different kind of institution and over time I think the level of realization of our mission and identity will suffer. Once again we reiterate everyone who is here now is prized; everyone who is here now can contribute to that mission in their own fashion whether they happen to be of another religious tradition or none. We do not try to impose a religious test upon promotion, but when it comes to hiring, which is the first and most crucial step in constituting the faculty, I think we have a long way to go in incorporating this as a priority across the University. The conversations that I've had with departments and deans and others give me hope that we will once again take this on with a certain sense of urgency. I don't think we ought to play games. You do not get more brownie points if someone fits into two or three categories and not just one. That's the kind of old strategy that people can use to get you off their back. I think we need to pursue each of these affirmative actions goals as important in its own right. The seeking out, the hiring, and the support for women faculty, for members of historical minority groups, for Catholics, and for Holy Cross religious — each of these has its own set of challenges. I think all of them are

critical and, as I've said before, if we had a historically black institution that had a shrinking percentage of African-American faculty, if we had a women's college and a shrinking percentage of female faculty, it might seem self-evident that there was an issue. I've spoken on this topic and I know you personally have strong feelings about it. I am happy to say again for me in my period of stewardship and leadership in the University, if I fail to have an impact on this, I will feel that I didn't do everything that I should have done.

Prof. Bergstrand: I would like to return to the issue of the graduate student health benefits. You mentioned during some of your comments, Monk, that some of the officers, people involved in some negotiations at looking at this issue, although there are a lot of options still to be considered. You mentioned Roger Mullins. My understanding, being a little involved in overseeing this, is that the Student Health Benefits have been generally negotiated between the Student Health Services and that the Department of Human Resources traditionally has not been involved in it, yet you mention Roger Mullins, and I was wondering if you could shed a little more light the potential role, given the expertise of the Department of Human Resources, as to what role they might play in this issue in terms of negotiations?

Father Malloy: I would be happy to give an answer. What would be helpful to me is if you would write me a specific letter of request in terms of that role, because that would provide me a fitting opportunity to ask for clarification and get it back to you. Until now we have had no formal report about what has happened in the conversation among those who participated, so I do not know. I don't know whether Roger has had a role behind the scenes or in an advisory capacity or not. I do know that Jim Merz articulated very clearly, and has subsequently in the officers' meetings, that this was an area of great concern and of course Nathan knows that from his time as a vice president for graduate studies and research. But like a lot of resource-driven questions, this one has life quality dimensions related to it. I

don't know what the options are, what the costs are, how they could be driven, and, insofar as Roger Mullins or any unit of the University can provide helpful and professional experience to enhance that conversation, then we ought to utilize it. Everyone in the administration, as far as I'm concerned, ought to be readily available to offer expertise across any kind of problem with any unit if it makes sense. We are here to serve. We are not trying to have little bailiwicks or islands of separation. If you would direct that to me in some specific way then I will make sure you get an answer, but I honestly right now can't give you any details about what role Roger may have had up until now.

Prof. Borelli: Father, as you know about two weeks ago there was a meeting of various institutions of higher education from Indiana, and in fact you nominated me as representing Notre Dame. Part of the concern, among others, that we discussed was affirmative action, especially in light of Proposition 209. I was very proud to report, that the faculty addressed this last year. You quite openly stated that Notre Dame would continue pursuing affirmative action. I may have misunderstood you, but I sense some hedging to this, so I am going to ask you, if you're willing, would you please reconfirm for us and for me in particular, that the University's still devoted and committed to maintaining vigorous affirmative action programs for women, Catholics and racial minorities.

Father Malloy: In the face of legitimate disagreement among people of good will about whether affirmative action is the most appropriate or most effective strategy to diversify our campuses and, in justice, to provide opportunity to those who have been underrepresented in the past, I believe personally, and in so far as I can represent the University community, I assert that affirmative action is the most effective strategy. We've said it in our public documents, I've said it constantly since I've been president and I say it again here tonight. Everyone that I have had this discussion with in the administration agrees with me. We will do everything we can to make

it happen; not only in trying to do it in getting people here, students, faculty, staff and so on, but in trying to enhance the experience they have while they're here. But in doing it, we're not immune to all the tensions and misunderstandings and biases that people can bring from the outside. I have had conversations in my class. I teach, as you know, a very diverse group of students who are first-year students and, among other things, we talk about all these things in class because I want them to be informed and to have considered judgment about why we need certain strategies of public policy in order to make progress and to diffuse some of the antagonisms that have been generated by some of the statistical profiles of what's happened in states after this has been abandoned as a strategy. There is no doubt that there are people that use the strategy of affirmative action to their advantage. We have debates about socio-economic under-representation as opposed to category under-representation. I think we're doing a better job for example, on undergraduate admissions. The students that we accept have the capacity and usually the will to make it here and thrive here and we need to make sure, once they're here, we do everything we can to help them succeed. As far as the policy statement is concerned, if this body or other representative groups in the University thinks that this is a wrong direction, I am happy to have that report. I personally, and the University and so as far as we can do it administratively from the Board of Trustees, is firmly committed to our affirmative action goals as articulated.

Prof. Neal: I don't want to harp on the issue of graduate student health benefits, but I want to put in a broader context — some of the things you were saying early on about academic reputation being driven in our peer institutions by the quality of their research and graduate programs. Notre Dame, being a leader in trying to recruit good graduate students, having an excellent health policy certainly wouldn't hurt. Somebody who gets in the trenches and goes out trying to recruit graduate students into our department, that question does come up quite often es-

pecially when we get married student applicants coming in. I think to get good quality graduate students, taking a lead in that particular area would certainly help and enhance over time the reputation of their research and of faculty so on and so forth. Another thing, this is more of an observation and planting a seed and if this is already occurring and I don't know about it you can tell me, is again trying to advance the academic reputation of the faculty, what about endowing centers of research, whether it be conceptual or analytical, but part of my trouble is to find the money to fund the machinery that I need to run, to get the analysis to do the research, and finding the money to maintain said machinery, comes out of research grants. If there are endowed centers that actually paid for just a technician or paid for computer time or more computers, we would be able to kick start much more competitive proposals. That might be a way to go to enhance the academic reputation of the University.

Father Malloy: I would be happy to accept your considered judgment about the first point. I don't dispute that at all. There's a question of what weight you would give that factor relative to certain other factors in recruiting and supporting graduate students. With regard to the monies available for the purposes you suggested to promote research and equipment and that sort of thing, a number of years ago I was on a committee of seven or eight presidents and a couple of members of the senate that were trying to look at this in an organized way relative to federal dollars and competitive grants for equipment. That didn't go anywhere in the end even though our statistical information, I thought, was quite useful and it came up against the reality of earmarking and growing resistance to earmarking as a way to elude the process of peer review. Earmarking still goes on now. With the presidential line item veto, I don't know how often any president is going to exercise that, but it has the possibility of eliminating some of that earmarking phenomenon. The difficulty is money for equipment does not loom large comparatively in what researchers at the

national level are seeking money directly to do, and it is not a very attractive thing to our benefactor pool. We found for example, that getting people to give money to buy hardware or software for computing is very difficult, because whatever they're giving money for is going to be gone in two years at the most. And the same thing is generally true although we've had little isolated bits of success in getting money for some very expensive and highly technical research equipment. The schools that I think have been most successful in that regard have had fairly entrepreneurial faculty who were engaged or had a track record with people in the corporate world and who were able then to argue the case for that kind of investment, but it's something to continue to ponder and I'm sure that Nathan and Jim Merz will keep working at that too.

Prof. Sullivan: Your comments about increasing the number of full faculty, on achievements, and your goals are admirable. Also the comments that were made apparently with the new dean of arts and letters when he met with the chairs. He was looking at reducing the number of adjuncts and I'm wondering if such is true, if there are any extensive discussions going on as to how to go about that, how long it will take, what would be the impact upon full faculty, but most especially what about the income and the lack of benefits for adjuncts at this time? I realize that that's probably also a kind of a fund-raising goal that isn't all that popular with a lot of our prospective donors, but I think there's another problem involved here in terms of priorities. How much building should we be doing, how much landscaping should we be doing relative to the needs of folks who don't have a grand plan, not only the adjuncts, but some of our other staff people, and progress has been made with secretaries but there's more to be done? People who don't have a grand plan, people who live a little better than paycheck to paycheck and have very little in terms of bank holdings, I would hope that if there had been discussions along these lines, you could clue us in. If not, I'd like to see that they begin to be pursued.

Father Malloy: You raised a number of different things there Pat. The history of adjunct faculty being employed by universities has been driven by a number of realities. In some cases, they are people who have independent professional careers who want to teach a course or two and have the visibility and satisfaction that goes along with that. I realize that this is not the majority, but it is one category; and so in the Law School, for example, we have adjunct faculty of note who have been judges or successful attorneys; in the College of Business Administration, we have adjunct faculty who run their own advertising agencies or are involved in professional accounting and their motivation and their expectations are different from other categories. The most dramatic transformation in my time at Notre Dame relative to faculty is the reduced teaching load. For a private institution to be affordable with over 50 percent of its operating budget going to salaries and benefits, requires some discipline. I am not opposed to the evolution I have described. I think it serves us well in terms of our multiple expectations for the kind of university we want to be. But what that has meant is we have not had the financial resources to replace the equivalent of full-time faculty positions that have come from the reduced teaching loads of the faculty. One way that we and others have tried to handle that has been through the employment of adjuncts. Part of that, of course, is driven by our peer institutions because our costs are comparative in most cases. Our salary levels are comparative and teaching loads are comparable in terms of peer institutions. We have full-time faculty who teach less in a school that is 75 percent undergraduate. We cannot raise tuition beyond the capacity of families to pay. Already we're stretching that in terms of our financial aid resources. The area that has given us some flexibility, both from semester to semester and from year to year, has been the kind of fluidity that has been present in some instances of adjunct faculty. Some adjunct faculty are between jobs, some teach in multiple locations. I think we need, within our means, to do everything we can to be fair and equitable with all those who work and

teach here, but I don't see any magic formula on the horizon. In the College of Arts and Letters and in the College of Science, we see some of the core requirements being covered by a disproportionate percentage of adjunct faculty and in other cases by graduate students. You can make a strong case that we need to give our doctoral students a chance to teach and many of them have been quite effective. But you're up against the question of how many should a typical graduate student have in the course of an academic career here. There are some adjuncts who have been here for multiple years. Why are they here? Some because they have a spouse or because they like the University. They like the environment. Many because it's their best career alternative. They were not hired. They have a Ph.D. The job market has been poor. They wanted to be in the academic world instead of somewhere else and so they chose to exercise their talent in this kind of a setting with the limitations that go along with that. Those are factors that we do not control as an institution. When we are looking at the percentages of adjuncts, it's, for me, a question of proportionality and longevity and the kind of reward structure that goes along with good performance as in any other category of employee. I realize that it's a problem. There have been books and articles written about it. There has been a continual effort at the national level to figure out what the alternatives are, but the easiest alternative is the most expensive. That is that all faculty would be Teaching and Research Faculty. In my lifetime, I don't expect that to happen. I do not think we have the funding support available to do that and to have a level of teaching loads that prevail in Universities of our kind. Because who will pay for those additional costs? It will be the families who are already stretching themselves graduating in heavy indebtedness. So those are the factors we're trying to play off against one another. You mentioned in passing the cost of beautification. This is minuscule compared to the cost factors of salaries and benefits across the University. That is where the heart of the conversation should be. It's a real issue, one that we have to pay attention

to, but I don't see an easy resolution on the horizon.

Prof. Quinn: The thing I would like to follow up on is the justice issue with respect to adjuncts and part-timers. It does seem to me that the fact that mostly they're without the kinds of benefits that regular faculty get, particularly health care benefits, raises a serious issue of justice and I wonder if you would agree with me that that is a serious issue of justice and if you have any thoughts how we could work on that specific part of the problem?

Father Malloy: I'm always happy to be in favor of justice as opposed to injustice. I would say in terms of a structural analysis the question of justice needs to incorporate the context of the academy that led and that continues to promote the employment of adjunct faculty in the first place. Is it just for the modern university to be driven on the backs of undergraduate tuition? The multiple activities of faculty, inherently worthwhile in themselves, are supported largely in universities of this kind by money paid by families, and others who supplement that, for undergraduate tuition. Doctoral students do not pay generally, and professional students generally do so. That is one component. I don't want to underestimate the justice claim of anyone who works in an environment like this. We want, within our means, to be as fair and equitable and just as we can be. I want to be identified with that effort. The hard thing for me in these kind of justice issues is first the structural question. Where does the money come from? How does it get spent? At what point do the various levels of participants in the university community have special claims? Why do faculty generally get paid more than staff? Why do some categories of faculty get paid more than other categories of faculty? Why is the teaching load lower in some colleges than in other colleges? They're all justice matters as far as I'm concerned, or at least you can examine them under that rubric. They are very complex and difficult to resolve in isolation from each other. Yes, the justice question is there. But the question of the money that is available, who

pays it, and how is it distributed is effected by a multiple set of realities that are not simply focused on adjunct faculty. We cannot pass over legitimate claims that adjunct faculty have on that resource base. I think this conversation needs to go on here and needs to go on in the broader American academy. It will because I think that there is a lot of momentum in that direction.

Prof. Detelefsen: When you're asking why it is that faculty are paid more than staff, don't forget also to ask why it is that administrators are paid more than anybody.

Father Malloy: For the same reasons, I guess.

Prof. Sterling: Father Malloy, I'd like to return to the issue of rankings. My question is this. It's a broad question. We have made improvements in our standing in terms of the endowment, and so from an outsider's perspective it looks like there should be more resources. But at a time that our resources appear to be on the rise, we've been hurt most in the rankings on financial matters. At least in two of those we ranked 29th for faculty resources, which is not just faculty salaries, it's a complex formula; and we rank 53rd in financial resources, which is basically expenditures for the students. My question is, is there any effort to think about the way in which the monies are spent in terms of these rankings, or do you have any specifics that you can give us as we think about this and wrestle with this ourselves?

Father Malloy: There is a general claim that people have made in the modern university that the better your endowment position, the more strength you have in the long term, and a greater control you have over your destiny because you are then less dependent upon tuition dollars or the combination of tuition and room and board. We are fairly dependent still on tuition, room and board because we are primarily an undergraduate institution. It's also driven by the fact that our multiple faculty efforts at the graduate level bring in significantly less dollars than some of our peer institutions. We are, however, making

progress. We have some very vigorous and successful granting efforts. But just in raw statistics, the dollars that we bring in that help supplement the academic cost and provide additional resources, are not comparable to many of the institutions in our category. It is interesting that schools like the University of Chicago have recently been very vigorously trying to increase the size of their undergraduate student body and maintain or reduce the size of their graduate body because they think in the long run the money that comes for purposes like endowment and for general benefaction comes primarily from the graduates of the undergraduate program. Thus, some schools that have been very strong at the graduate level see the future being much more competitive. More institutions are trying to get access to the federal dollars available for example, and that they need to build strength of another sort. It is very difficult for people who are not used to talking in terms of a billion dollars to think that you could be cash poor and endowment rich, but you can be. Harvard, just this year, is going to operate on a balanced budget after 15 years of effort. With a plus 8 billion dollar endowment, their operating budget will finally break even. Other schools that have had a substantial endowment have been struggling. Some institutions have reduced the size of the faculty, cut back programs, even in very well known institutions. It depends on what you're using as your comparative benchmark. What I think has been happening at Notre Dame is that we've had additional resources because we've grown the endowment and we've increased the spending rate and that's been a wonderful supplement separate from tuition, room and board plus unrestricted benefaction that's allowed us to build a level of operating budget that was just totally unexpected not that long ago. In the process of doing that, we've expanded the physical plant, we've added considerably to the faculty, we've been able to be competitive for a level of students that we couldn't compete for before and we are in a much better situation with regard to financial aid than we were before. Many schools, it's a standard formula, are taking money from their operating

budget and discounting and basically using it to supplement financial aid. They are not real dollars in that sense. They are just playing games. I am on the board of at least one school that knows that it's gone as far as it can go eating into the operating budget to do that. Many schools are pulling back. I think that we have greater financial strength looking into the next decade or two than the vast majority of our peer institutions because we haven't done that and because we don't have that precedent and because I think we're going to soon find a way of meeting the need for financial aid which will make us much more competitive for the best students at the undergraduate level and for the mix of students we want to get. As we grow the size of the faculty, and we have the capacity and the quality of the faculty to be more competitive for research grants and for other support, then we'll build the operating budget. We'll build the academic resource base of the University to a point that I think will carry us to the next level of excellence. In the short term, when you build a budget from year to year and you have high aspirations and everybody thinks we can do it quickly because we're used to doing it quickly, you just have to have a lot more discipline. If we increase tuition 20 percent we can do a lot of things we can't do increasing it at 5 percent, but increasing it at 5 percent, we're in a much better position financial aid wise with our resource base than we would be if we increased it at 20 percent. There is a lot of give and take there. My perspective is this, that we have a solid financial foundation because we haven't played a lot of games and because we're building the endowment and we're using discretionary money effectively and we're building a base and we're building the infrastructure of a great university. When the reputation catches up with that, that's not in our control. We can do a better job of telling the story. It takes a new mindset to talk about 1.6 billion dollar endowment and how you can have a budgetary problem; but you can.

Prof. Sheehan: I would like to ask a question on the general area of secrecy, and I recognize that there are a

lot of decisions in the University setting that are going to have to take place behind closed doors if you're not going to want to undertake discussions in a meeting such as this. My concern is that the quality or types of decisions that have to be sometimes made behind closed doors would not pass the same tests of rigor, of ethics and would be potentially embarrassing to the University were those decisions to be public or to be undertaken in public forum which would be made public. It's not my intention at the moment to try to embarrass anyone to give specifics although I am quite willing to do that if you want me to. I would prefer to make this more or less a hypothetical question, but the question basically is what kind of checks and balances are there to make sure the same type of ethics and the same rigor of ethics pertaining behind closed doors is pertaining in a public forum?

Father Malloy: It's a question of character and it's a question of the capacity of people in various positions of leadership to have the confidence of those with whom they work and those for whom they have responsibility and to whom they are accountable. I have the same feelings about that that I do about unfounded rumors that can malign people's reputations unnecessarily. They don't take place behind closed doors, but there is never an effort to validate, and therefore, people's reputations can be hurt unnecessarily and unjustly; so I try to be as forthcoming and consistent in that regard as seems to me, in my professional judgment, to be desirable and if I think that somebody's reputation will be harmed by certain level of revelation, I think it's my responsibility to bite the bullet and if there's grief to come from that, not to say anything. Anybody who works with me on a consistent basis, who has been at meetings like the Academic Council or other groups that are representative, I would hope, regards me as being generally forthcoming. We've striven in information provision and in process description to be as straight forward as possible. Sometimes it's simply not possible because of the nature of the material being dealt with and decisions that are operative. Your comment had kind of a

threatening aura so I'm not going to ask you what the things are. I would be a fool if I would ask you that, but I try to be forthcoming and in the circumstances where I or others are not, I guess it's the track record over time that gives creditably or not.

Prof. Sheehan: First off, you were not the administrator to whom I refer, and it was not my intention to try to threaten you, but in terms of called rumors versus facts, what I had in mind, perhaps the most grievous case in this situation, of a deposition where administrator either told the truth under deposition and violated the Faculty Handbook or lied in the deposition and met the procedures spelled out in the Faculty Handbook.

Father Malloy: I don't know what to say because I don't know what you're talking about. I'm in favor of truth. Truth, justice and whatever. If we have people that are not volitionally abiding by that standard then that's a problem. If there is evidence that that's the case then if someone wants to present that to me, I would be happy to look at it.

Prof. Eagan: This is a question regarding the relationship of the University to the community, particularly the Northeast section, and that is some people in that area contacted me with questions. That is based upon material in the *South Bend Tribune*, and possibly rumors, the University has acquired a large piece of land at Eddy and Route 23. Therefore, following that, Aldi's and Goodwill are going to be forced to leave. This caused some concern for the people in the area and the question is does Notre Dame have a responsibility to ensure the people in the area have reasonable and convenient access to food and other necessities, particularly considering the low income, the poor, and non-existent transportation?

Father Malloy: The facts are that Aldi's and Goodwill made the decision to leave the neighborhood. Through their real estate agents, they came to the University and asked if we would be interested in the property. Aldi's is going out to Portage Avenue, I think, and I don't know what Goodwill is

doing. We will buy or at least express an interest in any property that's either contiguous to the campus, or that is in the area. The property you mention was of interest to us. When it became known that we were interested in the property, some people made the guess or the surmise that we were the ones that really drove them out. That was not the sequence at all. I do not know what happened there in terms of why they weren't making money or they thought they could serve a community better someplace else. I'm just not sure. I do know that obviously Goodwill has a certain orientation to service of the poor, but I don't know about Aldi's, I've never been in there. We are not equipped to be a grocery store or a Goodwill agency for the neighborhood. But surely we've tried to be a good neighbor in the Northeast neighborhood and elsewhere as vigorously as we can. People like Jim Roemer and Jim Lyphout and others have played a special role in community organizations. If there is a need there, surely Notre Dame would be happy to be an advocate to encourage the development of some kind of shopping opportunities for those who cannot travel. But I just don't think that it is an appropriate role for us to play to replace a grocery store and a Goodwill operation. If neighborhood organizations or residents in the neighborhood want to encourage us to try to help look at alternatives there, I'm sure that those who do that on a regular basis on behalf of the University would be happy to cooperate. You might also know that the Northern Indiana Children's Hospital announced that that property was being evacuated by the state and we had nothing to do with that either. But that is another property that we would at least pursue because it is so close to the campus. There are two buildings there. The Northern Indiana Children's Hospital is off of Notre Dame Avenue, but Logan Center is off Eddy. There are two separate buildings right next to each other, and they serve some of the same kinds of population, but the one that is being sold is the Northern Indiana Children's Hospital. I don't know what that would do to Logan Center in the long run. As far as I know they are planning to stay there.

Prof. Williams: Why exactly do we acquire Aldi's and Goodwill, why are we interested in those properties and what are the sorts of plans we have for them? I guess my main concern would be that we not block some other business from coming in that might want to provide services because we just hold the land and keep that land from being put to use to the good of the neighborhood. What are our plans for it and to what extent do we try to develop plans that not only benefit Notre Dame but benefit the surrounding communities.

Father Malloy: Clearly, we have been heavily involved in a variety of things in the broader South Bend area: the Center for the Homeless, Dismas House, Life Treatment Center, and a whole variety of things of that kind. Notre Dame people are continually involved at the city planning level and in the neighborhood organization level, so it's not a question of whether we think that is a good thing to do. Its just what form it should take and how much we should be focused on the Northeast neighborhood. We felt historically that it's desirable for us to buy property as it becomes available, partly because we control the future needs and also because we prevent others, who might have other things in mind, from moving in. When it comes to the Northeast neighborhood, you probably remember the Notre Dame Apartments. They had been reduced to weekly and monthly rentals. There had been robberies, shootings and one murder near there. There were complaints in the neighborhood that the quality of life was deteriorating. We had one of our Notre Dame administrators and his wife held up walking through the neighborhood. We made the money available to re-do those buildings plus about five houses that had become very problematic. We had one property where that old restaurant used to be on Notre Dame Avenue and Howard Street. We bought that and knocked it down because that had become problematic in the neighborhood. Insofar as we can affect the stability and the quality of life of the neighborhood around the University, we want to do that. People can disagree about what the right strategy is.

We made money available to try to assist the Northeast Neighborhood Center. We've been involved in the Neighborhood Housing Association, rebuilding and rehabbing housing. We've made some money available for that. Obviously, some of our students and faculty and staff have been involved in Habitat for Humanity projects, some of which are adjacent to that neighborhood. I've had the chance to bless and celebrate the completion of those buildings. All of that is a positive sign of our attempt to be neighborly. I recently set up a meeting with Mayor Luecke and the chief of police and the county sheriff and the judges and some of the staff to do a thorough tour with myself and others of the Juvenile Center and to talk to the judges about the situation with regard to crime. Mike Barnes, the county prosecutor, also joined us. Clearly the *South Bend Tribune* today is oriented to the number of shootings in the area over the last few days. This is a serious issue because once that gets out of control, confidence disappears. We have been very supportive of the St. Joseph County Major Crimes Unit which is headquartered down on Jefferson. Unlike a lot of the big cities, we have resolved a high percentage of violent crime. Once it gets out of hand, people are going to say "Oh, thugs are killing each other" or something and the whole notion of justice breaks down. I don't know what we're going to do with that property. We have some, I think, legitimate long-range academic purposes that we could put that to, so that it would be an expansion of our present plant. But we don't want to do that in a destructive fashion that would affect the quality of life in the neighborhood. We are trying to do all of these things simultaneously with regard to this particular property. We just responded to an opportunity and either you respond or you don't respond and somebody else moves in with other possible purposes in mind.

Prof. Zachman: I have a question with regard to teaching space at the University. This is the beginning of my seventh year here, and I've seen, since I've been here, a rather amazing explosion, if you will, in our physical plant and also expansion of offices,

departmental offices, administrative offices. But with the exception of the DeBartolo building, I think I've noticed consistently a reduction in classroom space. There was, at least, not an increase in classroom space. My question has to do with, is there any strategic planning at the University level which keeps an eye on classroom space and also the need to increase it over time because it seems to me we're getting into a situation where we are more and more pinched every year?

Father Malloy: That is a very good question and I am glad you brought that up. We do have a group, the space planning oversight group, which as I mentioned, Jeff Kantor and Jim Lyphout are overseeing. One of their responsibilities, but particularly Jeff and his staff, is to constantly examine from semester to semester along with the Registrar's Office, how many potential teaching sites there are and of what kind. One of the problems is as we have greater utilization of computerization in the learning process, we've had to try and bring into other facilities what was available in DeBartolo and in the business building. We have been doing that over time. The same thing happened in the language labs in O'Shaughnessy. We have comparable issues with regard to engineering and science. One of the things, of course, about the science teaching facility is that that would be, primarily if not exclusively devoted to undergraduate instruction. That is much needed and what that would do is free up additional space at Nieuwland and the other science areas for graduate students and faculty. The complicated areas are really art and letters. We have so many departments and sub-programs and we then have all the institutes and centers, all of which are kind of insatiable in the demand for additional space. As we've added faculty, one of the ways that we try to provide office space is by eating into some of the classroom facilities. The first thing to say is that we're not yet in a panic situation. We're monitoring the situation very closely. At the Land-O'Lakes review meeting that we have at the beginning of each year, Jeff Kantor went through a very thor-

ough analysis. The other question is the utilization of the space that we have and the hard thing there is who teaches when, and what's attractive, and can you do Monday-Wednesday-Friday, Tuesday-Thursday, or some other combination. Who wants to teach at 8:00 in the morning? Who wants to teach at 4:15? We all know how that gets played out in departments and what pecking order determines who teaches when, at least in some units. We are trying to pay attention to the raw reality, how much teaching space is there? What quality is it? How attractive is it? How do we distribute the teaching space across the various units; and how much prerogative do people have over their space as opposed to our space. I think we will be helped considerably with the coming on line of the Performing Arts Center when that is completed, but that doesn't mean something else won't be eaten into. We do know what our minimum space needs are and our hope is that we can get all the available space up to the quality we expect.

Prof. Sporleder: Father Malloy, a quick note on campus construction, and as you noted we are blessed with a quality physical environment here; but I just wanted to say thank you very much for your efforts in gaining that controlled intersection at Dorr Road and Route 31/33 at the Dorr Road exit to the University and the linkage with Holy Cross. It is a place where people now can cross that busy highway as they move from Holy Cross to the University here, and back and forth and they can do it on foot, on bike, and even those who jog back and forth; however that point raises a question of safe access in terms of those who walk and bike to campus and perhaps jog effectively on major access ways to the University. Dorr Road is a good example, once you leave that intersection, there is a question of where the pedestrian properly can go because it is only a roadway that leads into the campus at that point. The other relates to major construction under way by the University in that area from Douglas Road to Pendle and the Juniper/Douglas Road with the new golf course construction. Admirable things, we'll have the new hazardous

waste facility coming on line, but the question is, is there some way we accomplish those construction efforts to include perhaps pathways that would allow safe walking and biking along the road — Douglas Road being a key example as a major access point to the University and of course Juniper Road, likewise; and on that same point since the University is one of the major employers in our community, I just often have a concern relative to the fact that we do stand I believe as a clean air advocate, that as a major employer perhaps we could have a responsibility too, to encourage more action in terms of utilizing alternate transportation in moving back and forth from the campus, perhaps even carpooling, and encouraging better public transportation to come about in our community, and to gain those safe ways to access and egress our fine community.

Father Malloy: You have been a strong and vocal advocate for many of the points you just made to me and the broader community and I thank you for that. I appreciate the comments about the traffic light on the road to Holy Cross College. I really did think we were going to lose somebody there. We were able to get it done in collaboration between Holy Cross and us and the county. We co-shared the cost of that. I feel so much better that that is in now. As far as the pathways, I know there was that perhaps ill conceived or at least not well appreciated effort on Ironwood to have a bicycle path. We have made some progress particularly in the six months of the year of having decent weather. We're spoiled by the recent good weather we've enjoyed. I have visited a lot of campuses where, because of the weather, bicycling is a normal mode of transportation and the traffic problems are not as severe as they can get here. I hope that we can advocate institutionally alternate modes of transportation by encouraging it and rewarding it. I thank you for the role you have played in this regard.

University Committee on Libraries

November 19, 1997

The meeting was called to order at 8:30 a.m. the Dooley Room at LaFortune Student Center by Chairman John Halloran. Also in attendance were Harvey Bender, Maureen Boulton, Alan Krieger, Larry Rapagnani, Steven Schmid, Laurence Taylor, Jennifer Younger and secretary Melodie Eiteljorge.

The first order of business was to elect this year's chair. Bender nominated Halloran for a second term. Schmid seconded the nomination. Halloran was elected by a unanimous vote.

Bender formally welcomed Jennifer Younger as the new director of libraries. He then asked about electronic resources being offered by the libraries and noted that the Faculty Senate is very interested in this topic.

Younger reported that Ted Cachey, Greg Sterling and Librarian Sonja Jordan, as members of the Academic Affairs subcommittee of the Faculty Senate, met with her earlier in the week. They reviewed the status of issues that were raised by the senate last year. At that time they wrote a letter to Maureen Gleason, who responded to it in detail. So that there might be a more productive dialog, Gleason described how the libraries sort out and think about electronic services, electronic resources and the creation of local activities.

Electronic services include circulation and interlibrary loan. These are a function of the online system, which the libraries are in the process of replacing. It is hoped that we can migrate from NOTIS to Ex Libris by the end of May or the first of June. The libraries will work with the Office of Information Technology (OIT), the vendor and others across campus to develop more functionality for interlibrary loan.

Electronic resources include purchasing, subscriptions and access to various resources. Younger suggested that this might be a fruitful area of discussion for this year's agenda. From the library perspective, there has always been a selection and acquisition process. Now, with electronic technology, it is more complex and more dependent on the OIT. One issue is publicity for new products. For example, we purchased J-STOR, which is backfiles of 35 to 40 journals, and the knowledge across campus about this is uneven. What kinds of publicity are needed? How do we get the word out?

The third area is the creation of databases and special collections locally. This area is ripe for collaboration. Client/server architecture is very hospitable for creating a variety of databases.

Halloran asked if the Faculty Senate had specific ideas in these areas. Younger replied that they seemed most interested in having this group discuss electronic resources. She proposed an ad hoc "Electronic Advisory Committee" be established to advise the libraries and discuss issues, i.e., balancing print and online collections. The libraries need to draw on members of the teaching and research faculty and from the OIT to work with library groups. She explained that the libraries have a Collection Development Committee which has been in place for a number of years. Recently we also established an Advisory Committee on Electronic Resources within the libraries. These two groups are working together and need input from other constituencies in this new and costly area.

Bender noted that serving all constituencies is difficult because of varying needs. The overlap with OIT is apparent. He feels that we have an advisory group in place with the University Committee on Libraries and that a subgroup would not necessarily be useful.

Younger replied that she would be pleased to see this body discuss these issues and that it seems appropriate for the group to assume this role.

Boulton asked how we relate to colleagues and the various colleges what is going on. Bender noted that the minutes are published in *Notre Dame Report*. Schmid suggested that we consider establishing a listserve to which people can subscribe. Krieger asked the group if they felt the libraries' *Access* publication is widely read. Boulton replied that *Access* is something that she does read on a regular basis. Younger suggested that much of what is in *Access* could be published on a listserve as well as in the print version.

Bender recalled that in the past people thought in terms of monographs or serials, and typically arts and letters for the former and science for the latter. Now electronics have entered the picture. He asked if at some point it is likely that electronic products will consume all the budget.

Younger replied that this is a definite concern, which is one reason we brought the two library committees together. We are already struggling with these issues and having ongoing discussions. However, we don't anticipate everything, and we do need faculty input. She suggested that one way of getting started might be a distribution of background material on what we are currently doing and ways in which we are operating. From there the group could provide feedback and act as a sounding board.

Younger noted that another closely linked area is space requirements. She is aware that there is a space plan for the libraries and that plans are in place to begin a renovation of the Hesburgh Library. She feels that this must be tied in with the branches. We will need to look at the differences in colleges and their requirements. This is another major item for which she would like to be able to tap this group.

Boulton stated that she was a member of the Ad Hoc Committee on University Libraries that was established after the Colloquy. Space was a topic of that group. She knows that there are plans to move offices out of the basement of the Hesburgh Library. She is also

aware of space problems in the main library as well as in the branches.

Bender noted that we need to be sensitive to changing methods of information retrieval. Younger agreed. The turnstile count has decreased in recent years because of remote access. This, too, brings issues. Steve Hayes, librarian in the Business Information Center has received reports over the past month about lost access to several remote databases. We must find ways to notify remote users that we have not cut them off and that lost access is a vendor or a programmatic problem.

In summary, Rapagnani asked if there is agreement that this group should act as a sounding board. All agreed. Halloran noted that, to work effectively as a sounding board, the group needs to solicit appropriate feedback from colleagues across campus.

There was general agreement that we should publish minutes on a listserve. Younger suggested that we could also link the minutes to the library homepage.

Younger will prepare some concise background material for distribution electronically.

The next order of business was to set a schedule for the year. It was agreed that 7:30 a.m. meetings on Wednesdays are most convenient. The secretary will check on the availability of the Morris Inn and/or Greenfields.

The following dates were set:

December 10
January 14
February 11
March 18
April 8
May 6
August 19

It was noted that we need an undergraduate and a graduate student to serve on the committee. Younger and Halloran will follow up on that.

There being no further business, the meeting adjourned at 9:40 a.m.

Respectfully submitted,

Melodie Eiteljorge
Secretary

Awards Received and Proposals Submitted

In the period November 1, 1997, through November 30, 1997

AWARDS RECEIVED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	4	130,779	10	727,888	14	858,667
Facilities and Equipment	0	0	0	0	0	0
Instructional Programs	0	0	0	0	0	0
Service Programs	0	0	4	14,217	4	14,217
Other Programs	0	0	2	159,666	2	159,666
Total	4	130,779	16	901,771	20	1,032,550

PROPOSALS SUBMITTED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	8	4,283,770	31	2,981,522	39	7,265,292
Facilities and Equipment	0	0	2	164,640	2	164,640
Instructional Programs	0	0	0	0	0	0
Service Programs	0	0	0	0	0	0
Other Programs	0	0	0	0	0	0
Total	8	4,283,770	33	3,146,162	41	7,429,932

Awards Received

In the period November 1, 1997, through November 30, 1997

AWARDS FOR RESEARCH

Biological Sciences

Harvey A. Bender

Human Genetics Program-Regional Genetics Center
Indiana State Department of Health
\$31,250 6 months

David W. Severson

RFLP Mapping of Plasmodium Refractory Genes in Mosquitoes
National Institutes of Health
\$470 10 months

Chemical Engineering

Albert A. Miller

A Sealing Solution for Anodized Aluminum with Low Cr (VI)
Department of the Navy
\$67,848 36 months

Chemistry and Biochemistry

Gregory V. Hartland

Ultrafast IR Spectroscopy of Semiconductor Clusters
American Chemical Society
\$5,000 14 months

Dennis C. Jacobs

Dynamics of Hypervelocity Coll. at the Gas/Surface Interface
Department of the Air Force
\$140,470 12 months

Computer Science and Engineering

Hsing-Mean Sha

Architectures and Code Generations for Nested Loops
Midwestern State University
\$4,467 12 months

Electrical Engineering

Daniel J. Costello Jr.

Error Control Coding Techniques
National Aeronautics and Space Administration
\$48,200 6 months

Yih-Fang Huang, Daniel J. Costello Jr., et al.

Robust Transmission of Compressed Images over Noisy Channels
Lockheed Martin Corp.
\$50,000 12 months

Physics

David P. Bennett

Measuring Proper Motions of Galactic Microlenses
Space Telescope Science Institute
\$24,633 16 months

Bruce A. Bunker

Experimental Facilities Studies at Advanced Photon Source
Department of Energy
\$200,000 12 months

Walter R. Johnson and Jonathan R. Sapirstein

Weak Interactions in Atomic Physics
National Science Foundation
\$170,000 36 months

A. Eugene Livingston

Highly-Charged Ions in an Electron Beam Ion Trap
National Institute of Standards and Technology
\$27,329 6 months

Steven T. Ruggiero

Single Electron Tunneling
Department of Energy
\$24,000 12 months

Radiation Laboratory

Prashant V. Kamat

Reactive Species at the Solid/Liquid Interface
Unilever Research U.S.
\$65,000 12 months

AWARDS FOR SERVICE PROGRAMS

Center for Continuing Formation in Ministry

Rev. Eugene F. Lauer

Center for Continuing Formation in Ministry
Various Others
\$7,280 1 month

Center for Pastoral Liturgy

Sr. Eleanor Bernstein, C.S.J.

Center for Pastoral Liturgy
Various Others
\$4,127 1 month
Center for Pastoral Liturgy
Various Others
\$2,779 1 month

Institute for Church Life

Sr. Kathleen Cannon, O.P.

Institute for Church Life
Various Others
\$31 1 month

AWARDS FOR OTHER PROGRAMS

Alliance for Catholic Education

John J. Staud

ACE Program

Corporation for National Service

\$149,000 14 months

Graduate School

Peter Diffley

Local 32B-J Scholarship for Christine Siscaretti

Local 32B-J T. Shortman Fund

\$10,666 12 months

Proposals Submitted

In the period November 1, 1997, through November 30, 1997

PROPOSALS FOR RESEARCH

Aerospace and Mechanical Engineering

Hafiz M. Atassi

Special Opportunities for Visiting Scholars

National Science Foundation

\$33,000 12 months

Edmundo Corona

Buckling of Damaged Flat Panels Under Biaxial Loading

National Aeronautics and Space Administration

\$24,760 10 months

Thomas J. Mueller

Propeller Blade Response to Inflow Distortion

Department of the Navy

\$84,493 12 months

Biological Sciences

Malcolm J. Fraser Jr.

Transposon Mutagenesis of NPV

National Institutes of Health

\$392,591 12 months

David M. Lodge

Waterfowl Herbivory

Institute for Wetland/Waterfowl Resources

\$160,641 36 months

Michael C. Mossing

Linkage of Helix-Turn-Helix Domains in DNA Recognition

National Institutes of Health

\$255,570 12 months

Howard J. Saz

Intermediary Metabolism of Helminths

National Institutes of Health

\$250,507 12 months

Civil Engineering and Geological Sciences

Peter C. Burns

Crystal Chemistry of Pb Uranyl Oxide Hydrate Minerals

National Science Foundation

\$178,479 36 months

Jeremy B. Fein

Bacterial Effects on Silicate Mineral Dissolution

National Science Foundation

\$168,347 36 months

Jeremy B. Fein and Charles F. Kulpa Jr.

Surface Complexation Theory and Bacteria-Water-Rock Interaction

Department of Energy

\$375,803 48 months

Clive R. Neal, Stephen E. Silliman, et al.

International Research Collaboration

National Science Foundation

\$49,674 24 months

Chemistry and Biochemistry

- Francis J. Castellino and T. Blandl**
 Structure-Function Studies of NMDA Antagonist Peptides
 American Heart Association
 \$29,000 24 months
- Gregory V. Hartland**
 Dye Sensitization of Semiconductor Particles
 Department of Energy
 \$267,120 36 months
- Marvin J. Miller**
 Drugs and Delivery Systems for Opportunistic Infections
 National Institutes of Health
 \$235,388 12 months
- Asymmetric Syntheses of Diverse Sets of B-Amino Acids
 NSC Technologies
 \$56,231 12 months
- Slavi C. Sevov**
 Main-Group Clusters in the Solid-State and in Solution
 C. & H. Dreyfus Foundation, Inc.
 \$60,000 60 months

Core Course

- Alven M. Neiman**
 Liberal Education, Monasticism and Caring
 American Council Learned Societies
 \$20,000 12 months

Electrical Engineering

- Douglas C. Hall**
 Superfluorescent Fiber Sources for Fiber Optic Gyroscopes
 DARPA
 \$185,000 20 months

English

- Ewa Ziarek**
 Feminist Interrogations of Postmodern Ethics
 J.S. Guggenheim Memorial Foundation
 \$30,000 12 months

History

- Kathleen A. Biddick**
 Ethnography before Ethnography
 National Endowment for the Humanities
 \$4,000 2 months

Classics

- Daniel J. Sheerin**
 John of Salisbury, Entheticus de dogmate philosophorum
 Stanford Humanities Center
 \$35,000 9 months
- The Palaeghristian Roman Noir
 National Humanities Center
 \$35,000 9 months

East Asian Languages and Literatures

- Liangyan Ge**
 The Shuihu Chuan and the Rise of Chinese Vernacular
 Prose
 Chiang Ching-kuo Foundation
 \$30,000 9 months

German and Russian Languages and Literatures

- Thomas G. Marullo**
 Hoping Against Hope: The Poetics of Exile
 The Woodrow Wilson Center
 \$26,450 9 months
- Hoping Against Hope: The Poetics of Exile
 J.S. Guggenheim Memorial Foundation
 \$26,450 12 months

Romance Languages and Literatures

- Kristine L. Ibsen**
 Gender and Representation in Colonial Spanish America
 National Endowment for the Humanities
 \$4,000 3 months

Mathematics

- Francis X. Connolly**
 Aspherical Orbifolds and Surgery Theory
 National Science Foundation
 \$115,442 36 months
- Julia F. Knight**
 Computable Structure Theory
 National Science Foundation
 \$72,762 36 months
- Gerard K. Misiolek**
 Diffeomorphism Groups, Symplectic Reduction and
 Nonlinear PDE
 National Science Foundation
 \$81,833 36 months
- Stephan A. Stolz**
 Curvature and Topology
 National Science Foundation
 \$144,609 36 months

Medieval Institute

- Patrick J. Geary**
 Mellon Seminar in Medieval Studies
 A.W. Mellon Foundation
 \$80,000 24 months

Philosophy**Michael J. Kremer**

The Kantian Roots of Frege's Philosophical Semantics
American Council Learned Society

\$20,000 12 months

The Kantian Roots of Frege's Philosophical Semantics
J.S. Guggenheim Memorial Foundation

\$30,000 12 months

Physics**David P. Bennett**

MACHO Project Research
University of California, Berkeley

\$49,640 12 months

Jacek K. Furdyna

Neutron Scattering Studies of Magnetic Semiconductors
National Science Foundation

\$297,754 36 months

Randal C. Ruchti, Mitchell R. Wayne, et al.

Experimental Particle Physics with Colliding Beams
National Science Foundation

\$2,717,827 60 months

Michael C. Wiescher

Low Energy Nuclear Reactions in Late Stellar Evolution
National Science Foundation

\$314,472 36 months

Sociology**Maureen T. Hallinan**

Determinates and Consequences of Schedule Changes for
Mathematics and Science

National Science Foundation
\$285,351 24 months

Theology**Rev. Michael S. Driscoll**

Biocultural Study of Urban Monasticism
Association of Theological Schools

\$38,098 10 months

PROPOSALS FOR FACILITIES AND EQUIPMENT

Chemical Engineering**Salma R. Saddawi and Roger A. Schmitz**

ILI - Cooling Tower

National Science Foundation

\$38,542 12 months

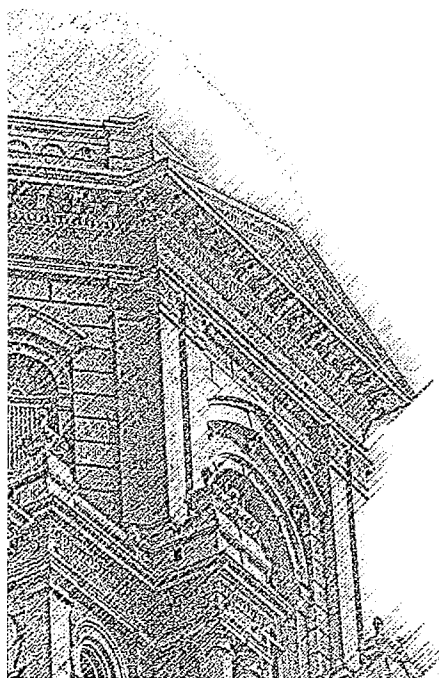
Electrical Engineering**Patrick J. Fay, Oliver Collins, et al.**

Wireless Communications: Microwave Measurement and
Design

National Science Foundation

\$126,098 24 months

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