



# NOTRE DAME REPORT

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## Nanovics Increase Endowment of Center for European Studies

Notre Dame has received a \$5 million commitment from Robert S. and Elizabeth Nanovic of North Yarmouth, Maine, to increase the endowment of the Nanovic Center for European Studies.

A 1954 Notre Dame graduate, Robert S. Nanovic received an M.B.A. degree from Lehigh University in 1960. He recently retired from a career as an investment counselor and has been a member of the advisory council for the College of Arts and Letters since 1993. Elizabeth Nanovic is a graduate of Hofstra University.

Established in 1993 with a previous gift from the Nanovics, the Robert and Elizabeth Nanovic Center for European Studies supports discussion and research of European issues in a variety of scholarly fields. It has sponsored conferences, seminars and lectures by internationally recognized scholars and government officials on such problems as nationalism, citizenship, ethnicity, immigration and the place of Europe in the international community. Most recently, it has helped organize a major conference which will bring 225 scholars from Europe, Israel and the United States to the Notre Dame campus to discuss moral, political and theological issues arising from the Holocaust.

The new benefaction will enable the Nanovic Center to expand its program of support for Notre Dame faculty and students engaged in the study of European affairs. According to center director J. Robert Wegs, professor of history, the Nanovic's gift will provide the resources to bring prominent foreign dignitaries and European scholars to Notre Dame for short visits and conferences and will significantly improve the library and curricular resources available in European fields.

Among the Nanovics' other benefactions to Notre Dame are the Nicholas S. Nanovic Scholarships, which were established in 1983 in honor of Robert Nanovic's father. The Nanovics' gift is a component of the University's \$767 million Generations campaign.

## Trautman Receives Mathis Award

Bishop Donald W. Trautman of Erie, Pa., has received the 1997 Michael Mathis Award from the Center for Pastoral Ministry. The Mathis award, named for the Holy Cross priest who established Notre Dame's liturgical studies program, is annually conferred by the center on people who have made "a significant contribution to the ongoing renewal of pastoral liturgy and life in the spirit of Vatican Council II."

Bishop Trautman, the 15th recipient of the Mathis award, chaired the U.S. Catholic bishops' committee on the liturgy from 1993 to 1996. During his tenure the committee considered revisions of the lectionary and sacramentary — the principle texts used in all Catholic liturgies — and submitted them for a vote by the bishops' conference.

When it was established in 1971, the Center for Pastoral Liturgy was one of three centers mandated by the National Conference of Catholic Bishops (NCCB) to encourage and support liturgical reform. Since the founding of those centers, other institutions have been recognized by the NCCB, but only the Notre Dame center and the Mexican American Cultural Center survive today. The center provides resources to parishes and other church institutions nationwide, holds an annual pastoral liturgy conference, administers educational programs in liturgical renewal, and conducts research on current liturgical issues.

## Center for Environmental Science and Technology Is New Name for Bioengineering and Pollution Control

The Center for Bioengineering and Pollution Control at Notre Dame has changed its name to the Center for Environmental Science and Technology (CEST), effective July 1. This name change will better reflect the goals, research and interactions that the center is developing.

An interdisciplinary center established in 1987 to provide and develop research opportunities, education and new technologies pertinent to environmental problems, CEST is rapidly becoming one of the leading environmental research centers in the world.

## National Science Foundation Awards Grant

The National Science Foundation (NSF) has awarded the University a \$350,000 grant that will allow it to connect to the NSF's Very High Performance Backbone Network Service (vBNS), a sophisticated telecommunications network that enables scientists across the continent to share powerful computing resources.

The grant to Notre Dame and 34 other major research universities moves the nation one step closer to Internet 2, a newer, higher-speed version of the global system of computer networks. The vBNS is the primary telecommunications network of the Internet 2 project, a consortium of universities, including Notre Dame, committed to the development of advanced networking to support future educational applications of telecommunications and technology.

In addition to the Internet 2 project, the new connections will allow six Notre Dame researchers to make use of powerful supercomputers to perform complex calculations or to conduct simulations that otherwise would be difficult, if not impossible, over conventional telecommunications networks.

The vBNS is capable of transmitting vastly larger amounts of data much more quickly than existing networks — as many as 622 million bits per second, and ultimately as many as 2.4 billion bits per second. By comparison, the average modem in a home personal computer transmits 28,000 bits per second. The large capacity will allow scientists and engineers at Notre Dame and elsewhere to run, for example, more accurate and comprehensive simulations of natural phenomena or to collect and analyze huge sets of data from geographically dispersed remote sensors.

Notre Dame projects and project areas that will benefit immediately from the high-speed vBNS connections include:

- **Advanced Photon Source project:** Under the direction of Bruce Bunker, professor of physics, the APS project is developing tools for the study of the structure and electronic properties of advanced materials.
- **High Energy Physics:** Directed by John LoSecco, professor of physics, the High Energy Physics group at Notre Dame is participating in three projects requiring high-performance network access, including the D0 Project at the Fermi National Accelerator Laboratory that was responsible for the recent discovery of the top quark.

- **Astrophysics:** Notre Dame astrophysicists are engaged in several large scale numerical simulation and modeling calculations as well as the MAssive Compact Halo Objects (MACHO) project. Directed by David Bennett, assistant professor of physics, the MACHO project studies the dark matter that comprises about half the total mass of the Milky Way. The work is being done in conjunction with the Mount Stromlo observation site in Australia and the Lawrence Livermore National Laboratory.

- **Hydrodynamic computations in continental margin waters:** Joannes Westerink, associate professor of civil engineering and geological sciences, uses computer models to predict the hydrodynamics of coastal waters, including the storm surge of hurricanes in the Gulf of Mexico.

- **Grand Challenge Project:** The NSF-funded Grand Challenge Project, under the direction of Hafiz Atassi, professor of aerospace and mechanical engineering, is a numerical laboratory for multi-model and multi-domain computational methods in aerodynamics and aeroacoustics.

- **Distributed scientific computing:** Andrew Lumsdaine, assistant professor of computer science and engineering, is engaged in a comprehensive study seeking to provide fundamental new understanding of specific aspects of high performance parallel computing for scientific and engineering applications.

Closely related to the research applications of vBNS is the Internet 2 project, a partnership of 108 universities to create a network that is 100 times faster than the current Internet.

Larry Rapaganani, assistant provost for information technologies, was the principal investigator for the NSF grant proposal, in collaboration with Kantor, Atassi, Bunker, Lumsdaine, LoSecco, Westerink, Bennett and other faculty.

# FACULTY NOTES

## Honors

**Peter H. Bauer**, associate professor of electrical engineering, received an Alexander von Humbolt Fellowship for the academic year 1997-98 to perform research on "Stability of Time-variant Discrete Systems" at the Technical University Munich.

**Gina Costa**, assistant professional specialist in the Snite Museum of Art, received the second place award for the children's video she produced titled "Just Ask: Your Eyes Will Tell You Everything!" an 11-minute video which teaches children how to look at and think about art and explains what a trip to an art museum is all about, at the annual Association of American Museums Conference in Atlanta, Ga., April 26-30.

**Ronald A. Hellenthal**, professor of biological sciences, received the North American Benthological Society Distinguished Service Award at the annual meeting at Southwest Texas State University in San Marcos, Tex., May 23-June 3.

**David T. Link**, Matson dean and professor of law, was named the chair and was involved in the creation of the World Law Institute, a not-for-profit organization that will sponsor educational programs in fields of law relating to the global economy, world organizations, and the emerging world common law. The mission of the institute is to promote the study and reinforcement of common elements in the legal systems of the world that facilitate global economic interaction, respect for human rights, protection of the environment, dispute resolution, and other matters.

**Scott Van Jacob**, associate librarian, was elected a member-at-large for a three-year term to the executive board of the Seminar on the Acquisition of Latin American Library Materials.

## Activities

**Albert-Laszlo Barabasi**, assistant professor of physics, gave the Condensed Matter Seminar "Morphology of Ion-sputtered Surfaces: Corrections to the Kardor-Parisi-Zhang and Kuramoto-Shivashinsky Equations" at the Department of Physics at Ohio State University in Columbus, Ohio, Feb. 17. He gave the seminar "Interface Motion in Porous Media: Pinning, Depinning and Scaling" at the Center for Nonlinear Studies at Los Alamos National Laboratory in Los Alamos, N.Mex., Feb. 20. He gave the talk "Self-assembled Quantum Dot Formation on Semiconductor Surfaces" at the American Physical Society

March Meeting in Kansas City, Mo., March 21. Barabasi presented the invited talk "Self-assembled Quantum Dot Formation on Semiconductor Surfaces" at the 213th American Society Meeting, Division of Physical Chemistry, in San Francisco, Calif., April 13. He gave the seminar "Self-assembled Quantum Dot Formation" at the Hewlett Packard Laboratories in Palo Alto, Calif., April 15. He gave the invited talk "Invasion Percolation and Global Optimization" at the DIMACS Workshop of Combinational Optimization at Rutgers University in Newark, N.J., May 17.

**Matthew J. Barrett**, associate professor of law, gave a presentation on "Tax Ethics" to the Taxation Committee of the Indiana State Bar Association at the spring meeting in South Bend, Ind., April 17.

**Joan F. Brennecke**, associate professor of chemical engineering, presented the invited talk "Supercritical CO<sub>2</sub> as a Replacement Solvent for Reactions" to the Department of Chemical Engineering at West Virginia University in Morgantown, W.Va., Feb. 25. She co-authored the paper "Measurement and Modeling of Phase Equilibrium in a Reaction System Using an Environmentally Benign Solvent" with Benito Stradi-Granados, **James P. Kohn**, professor emeritus of chemical engineering, and **Mark A. Stadtherr**, professor of chemical engineering, presented at the spring AIChE meeting in Houston, Tex., March 9-14. Brennecke presented the invited talk "Energy Transfer Reactions in Supercritical CO<sub>2</sub>" to the Department of Chemical Engineering at the University of Connecticut in Storrs, Conn., April 28. She co-authored "Solvation Effects on Energy Transfer Reactions in Supercritical Fluids from Fluorescence Spectroscopy" with Jianwei Zhang, Daniel P. Roek and Chateaneuf, and co-authored "Measurement and Modeling of Phase Equilibrium in a Reaction System Using Environmentally Benign CO<sub>2</sub>" with Stradi-Granados, Stadtherr and Kohn at the fourth international symposium on Supercritical Fluids in Sendai, Japan, May 11-14.

**Ian C. Carmichael**, associate professional specialist in the Radiation Laboratory, presented "Spin Density from Correlation-Consistent Basis Sets and Density Functional Theory" at the 30th Midwest Theoretical Chemistry Conference at the Beckman Institute of the University of Illinois in Champaign-Urbana, Ill., May 22-24.

**Neal M. Cason**, professor of physics, presented an invited talk titled "Hadronic Physics at Brookhaven" at Brookhaven National Laboratory in Upton, N.Y., May 22. He presented an invited talk titled "Exotic Meson Signatures from BNL E852" at the VIth international conference on the Intersections of Particles and Nuclear Physics at Big Sky, Mont., May 28.

# FACULTY NOTES

**Hsueh-Chia Chang**, professor of chemical engineering, gave the keynote lecture "Fast-Igniting Catalytic Converters" at the second joint U.S./China Chemical Engineering Conference in Beijing, China, May 20.

**Daniel M. Chipman**, professional specialist in the Radiation Laboratory, presented "New Quantum Mechanical Operations for ESR Hyperfine Coupling and NMR Spin-Spin Coupling Constants" and co-authored "Fully Polarizable Continuum Model: Volume Polarization Effects on Molecular Properties" presented by graduate student Chang-Guo Zhan at the 30th Midwest Theoretical Chemistry Conference at the Beckman Institute at the University of Illinois in Champaign-Urbana, Ill., May 22-24.

**Peter Cholak**, McAndrews assistant professor of mathematics, gave the invited talk "Automorphic Computably Enumerable Sets" in the logic seminar in the Department of Mathematics at the University of Chicago in Chicago, Ill., May 19. He gave the invited talk "More on the Strength of Ramsey's Theorem for Pairs" in the mini-symposium in Logic at the Ph.D. Centennial Conference at the Department of Mathematics at the University of Wisconsin in Madison, Wis., May 22.

**Malgorzata Dobrowolska-Furdyna**, associate professor of physics, co-authored the contributed paper "Interface Effects on the Magnetic Properties of Ultrathin Diluted Magnetic Semiconductors" with S. Lee, **Jacek K. Furdyna**, Marquez professor of physics, and L.R. Ram-Mohan at the meeting of the American Physical Society in Kansas City, Mo., March 17-19. She co-authored the following papers at that meeting: "Wavefunction Mapping of the Multiple Quantum Well Using Diluted Magnetic Semiconductors" with Lee, Furdyna and Ram-Mohan; "Interface Effects on Zone-center and Zone-edge Transitions in Small-offset Superlattices" with M. Syed, G.L. Yang, Furdyna and Ram-Mohan; "Giant Magneto-Photoluminescence Intensity Changes in  $Zn_{1-x}Mn_xSe$ " with Furdyna, Lee, A. Pareek and T. Schmiedel; and "Two-dimensional Electron Gas in DMS Quantum Wells" with M.S. Salib, G. Kioseoglou, **Hsueh-Chia Chang**, professor of chemical engineering, H. Luo, A. Petrou, Schmiedel and Furdyna.

**William G. Dwyer**, Hank professor of mathematics, gave an invited talk titled "Homology Decompositions" in the Department of Mathematics at Northwestern University in Evanston, Ill., May 21.

**Douglas Fishkind**, assistant professor of biological sciences, presented a research seminar titled "Actin-Myosin Dynamics in Cell Division" at the University of Michigan, Department of Anatomy and Cell Biology, in Ann Arbor, Mich., Jan. 29-30.

**Michael J. Francis**, professor of government and international studies, delivered a paper on "NAFTA: Globalization versus Regional Competition" at the Midwest Political Science Association meeting in Chicago, Ill.

**Malcolm J. Fraser Jr.**, associate professor of biological sciences, gave an invited presentation titled "Analysis of piggyBac Transposable Element Excision in Cultured Insect Cells and Embryos" at the second international workshop on Transgenesis of Invertebrate Organisms in Asilomar, Calif., May 9-13.

**Paquita Davis Friday**, assistant professor of accountancy, presented the paper titled "Accounting Valuation and Current Cost Disclosures: The Case of Mexico" at the Indiana-Notre Dame-Purdue Accounting Research Conference at the University of Notre Dame, Notre Dame, Ind., June 6.

**E. Ann Gabriel**, assistant professor of accountancy, served as a panel moderator for "Experimental Economics as Behavioral Accounting Research" at the American Accounting Association Accounting Behavior and Organizations Section Research Conference in Pittsburgh, Pa., May 9.

**James A. Glazier**, assistant professor of physics, gave the invited seminar "Three Dimensional Liquid Foams" at the Department of Materials Engineering, Instituto Superior Technico, in Lisbon, Portugal, May 22.

**Dirk M. Guldi**, associate professional specialist in the Radiation Laboratory, presented "Pulse Radiolysis and Flash Photolysis Studies on Water-Soluble Fullerene Clusters and Capped Fullerenes" and "Ruthenium (II)/C60 Based Donor-Bridge Acceptor Dyads; Photoinduced Electron and Energy Transfer" at the 191st meeting of the Electrochemical Society in Montreal, Quebec, Canada, May 4-9.

**Glenn S. Hendler**, assistant professor of English, delivered the lecture "Sentimentality and Civil Society in Washingtonian Temperance Narratives" at the annual conference of the American Literature Association in Baltimore, Md., May 24.

**David R. Hyde**, associate professor of biological sciences, gave the seminar "Drosophila Retinal Degeneration B Protein: Its Function in the Fly Photoreceptor and Potential Role in Human Retinal Degeneration" to the Institute of Development and Molecular Biology at the Russian Academy of Sciences in Moscow, Russia, May 12, and at Moscow State University in Moscow, Russia, May 14.

**Prashant V. Kamat**, professional specialist in the Radiation Laboratory, presented "Excited State Behavior of Fullerene Derivatives" and "Optical Effects in CdS Capped

# FACULTY NOTES

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**SnO<sub>2</sub> and TiO<sub>2</sub> Semiconductor Nanoclusters** at the 191st meeting of the Electrochemical Society in Montreal, Quebec, Canada, May 4–9. He gave the presentation “Photosensitization of SnO<sub>2</sub> Nanocrystallites with H-aggregates of Cresyl Violet. Dynamics of Forward and Back Electron Transfer Processes” at the third international meeting of the New Trends in Photoelectrochemistry in Estes Park, Colo., May 11–14.

**M. Cathleen Kaveny**, associate professor of law, addressed the Roman Catholic bishops on topic of legal aspects of assisted suicide at their annual conference on medical ethics in Dallas, Tex., Feb. She delivered the paper “Economic Pressures: Managed Care and the Poor” at the conference Life at Risk: A Closer Look at Assisted Suicide at Columbus School of Law in Washington, D.C., March 8. She appeared in a teleconference on the Catholic Common Ground Project broadcast on Odyssey Channel, March 10. She gave the Cardinal Bernardin Lecture at Georgetown University in Washington, D.C., April 2.

**Gary A. Lamberti**, associate professor of biological sciences, presented the invited paper “Sources and Sinks: Dispersal and Impacts of Exotic Species in Coupled Lake-Stream Systems” and a contributed paper titled “Periphyton Accrual Dynamics in Eleven Midwestern Streams in Relation to Phosphorus and Nitrogen Availability” at the annual meeting of the North American Benthological Society in San Marcos, Tex., May 25–31. He presented the posters “Impact on Benthic Invertebrates by Ruffe (*Gymnocephalus Cernuus*), an Exotic Fish to the Great Lakes,” “Extent and Controlling Factors of Nitrification in Stream Sediments” and “Breakdown of Surface and Buried Leaf Packs in Upwelling and Downwelling Reaches of a Lower Michigan Stream” at that meeting.

**Jay A. LaVerne**, professional specialist in the Radiation Laboratory, presented “Fluorescence in the Heavy Ion Radiolysis of Benzene” at the 45th annual meeting of the Radiation Research Society in Providence, R.I., May 3–7.

**Reuy-wen Liu**, Freimann professor of electrical engineering, was invited by the Russian Academy of Sciences to present a lecture titled “Blind Signal Processing” at the Institute of Radio Engineering and Electronics in Moscow, Russia, May 20.

**George A. Lopez**, professor of government and international studies and fellow in the Kroc Institute, chaired the Selection Committee for the MacArthur Foundation’s 1996 program for grants in research and writing in peace and international cooperation in New York, N.Y., Dec. 11–13.

**Edward J. Maginn**, assistant professor of chemical engineering, gave the invited lecture “Understanding Sorp-

tion and Diffusion in Microporous Materials Through Molecular Simulations” at the Midwest Thermodynamics and Statistical Mechanics Conference at George Williams College in Williams Bay, Wis., May 16.

**Scott Mainwaring**, Conley chairperson and professor of government and international studies, presented a paper on “Democratic Survivability in Latin America, 1940–1995” at the conference on Democracy in Latin America, Asia, and the Middle East at the University of Wisconsin in Madison, Wis., May 2. He presented a paper on “Robust Federalism and Democracy in Brazil” at the conference on Federalism, Nationalism, and Democracy at Oxford University in Oxford, England, June 6.

**Bradley J. Malkowsky**, assistant professor of theology, lectured on “Islam and Muslim-Christian Relations,” “Hinduism and Hindu-Christian Relations” and “Buddhism and Buddhist-Christian Relations” at St. Michael and All Angels Episcopal Church in South Bend, Ind., Feb. 16, 23, March 9, respectively. He lectured on “Comparative Theology” for the proseminar for undergraduate majors in theology at the University of Notre Dame, Notre Dame, Ind., Feb. 26. He served on a panel discussion on “Race and Religious Diversity at Notre Dame” in Lewis Hall, Notre Dame, March 22. He presented “Teaching the Bhagavad-Gita in the Core Course” at a session of Core Course faculty at Notre Dame, April 18. He presented “Swami Vivekananda and Bede Griffiths on Religious Pluralism: Hindu and Christian Approaches to Truth” at the annual convention of the College Theology Society at the University of San Diego in San Diego, Calif., May 31.

**Anthony N. Michel**, McCloskey dean of engineering and Freimann professor of electrical engineering, presented a plenary talk titled “Modeling and Qualitative Theory for General Hybrid Dynamical and Control Systems” at the IFAC conference on the Control of Industrial Systems in Belfort, France, May 21–23. He chaired a technical session at the 1997 American Control Conference titled Neural Network Applications held in Albuquerque, N.Mex., June 4–6. Michel, with Ling Hou, presented the papers “Stability Analysis of a General Class of Hybrid Dynamical Systems” and “Robust Stability of Systems with Saturation Constraints” at that conference.

**Philip E. Mirowski**, Koch professor of economics, gave an invited lecture titled “Machine Dreams: Economics Becomes a Cyborg Science at the Fishbein Center at the University of Chicago in Chicago, Ill., Jan. 24. He was a visiting professor at the University of Paris, Sorbonne, March 20–May 2. He gave the invited lecture “Artificial Economic Agents of Very Little Intelligence” at the Seminar on Complexity and Economic Theory at the Technical University of Lisbon in Lisbon, Portugal, April 10–11.

# FACULTY NOTES

**Thomas J. Mueller**, Roth-Gibson professor of aerospace and mechanical engineering, presented a talk titled "Unsteady Pressure Measurements on Scale Models in Low Speed Wind Tunnels" at the 1997 Subsonic Aerodynamic Testing Association at the U.S. Air Force Academy in Colorado Springs, Colo., June 11.

**Ingrid Müller**, assistant professor of biological sciences, presented a lecture titled "Charakterisierung der Leishmania major induzierten Immunantwort in IL4-defizienten BALB/c-Mouse" at Jussieu Universität in Giessen, Germany, May 9-14.

**James S. O'Rourke IV**, associate professional specialist in the Fanning Center for Business Communication and concurrent associate professor of management, delivered an invited address titled "Communication, Innovation, and Leadership" to the United States Department of Energy Center for Policy and Regulatory Assistance at the Idaho National Engineering Laboratory in Idaho Falls, Idaho, May 7.

**Catherine Perry**, assistant professor of Romance languages and literatures, delivered the paper "Retour au Mythe Païen dans L'oeuvre D'Anna de Noailles" at the 10th annual conference of the Conseil International d'Études Francophones held at Point-a-Pitre, Guadeloupe, May 10-17.

**Russell A. Pickett**, professor of naval sciences, presented a talk titled "NROTC — Critical to the Submarine Force" at the Naval Submarine League Symposium in Washington, D.C., June 4.

**Simon M. Pimblott**, associate professional specialist in the Radiation Laboratory, presented the poster "Consequences of Spur Overlap in Determining Radiation Damage" at the 45th annual meeting of the Radiation Research Society in Providence, R.I., May 3-7.

**John E. Renaud**, Clark assistant professor of aerospace and mechanical engineering, presented the paper "Convergence of Trust Region Augmented Lagrangian Methods Using Variable Fidelity Data" at the second world congress of Structural and Multidisciplinary Optimization in Zakopane, Poland, May 26-30.

**Joachim J. Rosenthal**, associate professor of mathematics, gave the invited talk titled "A BCH Construction for Convolutional Codes" at the conference CRYPTO/CODES 1997 held in Lincoln, Nebr., June 1-4.

**Daniel J. Sheerin**, professor of classics, delivered the paper "Invitations to Baptism: Genre Pragmatics" at the annual general meeting of the North American Patristics Society at Loyola University in Chicago, Ill., May 30.

**Susan Guise Sheridan**, assistant professor of anthropology, presented "Biocultural Reconstruction of a Byzantine Monastic Community: Human Adaptability at St. Stephen's Monastery, Jerusalem" at the North American Patristic Society annual meeting in Chicago, Ill., May 29-31.

**Andrew J. Sommese**, Duncan professor of mathematics, gave the invited lecture "On Adjunction Theory and Hilbert Functions" at the University of Genova, May 28. He gave four invited lectures "On Adjunction Theory and the Hilbert Function," "What We Know About the Second Adjunction Mapping," "Tools to Study the Second Adjunction Mapping" and "Numerical Algebraic Geometry" at the University of Milan in Milan, Italy, June 4-6, 9.

**Billie F. Spencer Jr.**, professor of civil engineering and geological sciences, organized and chaired the workshop on Response and Reliability of Stochastic Dynamical Systems: Numerics and Applications at the University of Notre Dame, Notre Dame, Ind., May 21-24. He presented the paper titled "Moment Closure Methods for Nonlinear Stochastic Systems" at that meeting.

**Mark A. Stadtherr**, professor of chemical engineering, gave the invited talk "Strategies for Process Engineering Computations Using High Performance Computing Technology" at the Technology Reviews in Process Design and Analysis Symposium at the AIChE national meeting in Houston, Tex., March 9-13. He co-authored "A Parallel Frontal Solver for Process Stimulation" with J.U. Mallya, S.E. Zitney and S. Choudhary at the eighth SIAM conference on Parallel Processing for Scientific Computing in Minneapolis, Minn., March 14-17. He presented "A Parallel Block Frontal Solver for Large Scale Process Simulation: Reordering Effects" with Mallya, Zitney and Choudhary at the fifth international symposium on Process Systems Engineering in Trondheim, Norway, May 26-29.

**William C. Strieder**, professor of chemical engineering, co-authored the papers "Kinetic Theory of High Temperature Heat Transfer within Closed Cavities: Void Radiation Conductivity across an Oblate Spheroid" and "Transport Coefficients in Random Two-Phase Media with Interfacial Resistance" presented by graduate students Sean Fitzgerald and Giorgio Zoia, respectively, at the 1997 Midwest Thermodynamics and Statistical Mechanics Conference at George William College in Williams Bay, Wis., May 15-16.

**Lee A. Tavis**, Smith professor of business administration, participated in a drafting seminar for a statement on "Social Responsibility in the Age of Globalization" to mark the 10th anniversary of the Catholic Bishops' Letter on the U.S. Economy held in Milwaukee, Wis., May 27-29.



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He presented the paper "Actualizing the Developmental Response of Multinational Corporations" at a seminar titled "Legal and Ethical Foundations of Emerging Economies: Problems and Prescriptions" at the Wharton School in Philadelphia, Pa., May 30.

**Rafael A. Tenorio**, assistant professor of finance and business economics, presented the paper "Analyzing Sequential Game Equilibrium: A Natural Experiment from 'The Price is Right'" with co-author **Robert H. Battalio**, assistant professor of finance and business economics, at the Department of Management and Strategy at the Kellogg Graduate School of Management at Northwestern University in Evanston, Ill., May 14; and at the Midwest Economic Theory Meeting in Evanston, Ill., June 1.

**Dominic O. Vachon**, concurrent assistant professor of psychology, presented a workshop with Elder Sunshine Eagle on "Finding Our Common Ground in the Paradigm Shift: Building Bridges Between Our Various Spiritualities, Philosophies, and Religions" at the conference Engaging the World with Compassion at the Union Theological Seminary in New York, N.Y., Jan. 18. He presented the workshop "Caring: An Oversentimentalized Concept in Medical Practice?" as part of the continuing medical education program to physicians at Saint Joseph's Medical Center in South Bend, Ind., March 19. Vachon and Suhayl J. Nasr gave a poster presentation titled "The Relationship Between the Temperament and Character Inventory and the SCL-90" at the 52nd annual scientific meeting and convention of the Society of Biological Psychiatry in San Diego, Calif., May 14-18.

**J. Samuel Valenzuela**, professor of sociology, gave a short course on Democratization in the Southern Cone of Latin America as a visiting professor at the Institut d'Etudes Politiques in Paris, France, March and May. He presented a paper "Landowners, Peasants, the Bourgeoisie, and Democratization in Chile: A Reassessment of Barrington Moore's Model" at the Latin American Studies Association's XXth international conference at Guadalajara, Mexico, April 20. He gave a lecture titled "Aix origines de la démocratie chilienne: les pratiques electorales au XIXème siècle" at the Centre d'Etudes et Recherches Internationales of the Fondation Nationale de Sciences Politiques in Paris, France, May 20. He presented the paper "Civil Wars in Chile: Facts or Faults in the Work of Maurice Zeitlin and Luis Vitale" at a workshop on 19th-century civil wars in Latin America organized at the Institute of Latin American Studies, University of London, London, England, May 23.

**Scott Van Jacob**, associate librarian, gave a demonstration of the Brazilian Government Documents Digitalization Project at the Latin American Studies Association Meeting in Guadalajara, Mexico, April 16-19. He moder-

ated and presented a report on the recently acquired Porrua Spanish Inquisition Collection on the panel "Confessions of a Bibliographer: Newly Acquired Inquisition Collections" at the 42nd annual seminar on the Acquisition of Latin American Library Materials.

**Arvid Varma**, Schmitt professor of chemical engineering, presented a paper titled "The Effects of Gravity on Combustion and Structure Formation during Combustion Synthesis in Gasless Systems" at the International Microgravity Combustion Workshop held in Cleveland, Ohio, May 19-21.

**Raimo Väyrynen**, professor of government and international studies and Regan director of the Kroc Institute, made a presentation on the "Enlargement of NATO and its Impact on Northern Europe" in a conference organized by the University of Washington and the Seattle World Affairs Council on "NATO Enlargement and the Baltic States" in Seattle, Wash., May 6-7. He presented a paper on "Norms, Compliance, and Enforcement in Global Governance: Theories and Policies" for the Canadian-U.S. Conference on Global Governance organized by the Joan B. Kroc Institute for International Peace Studies at the University of Notre Dame, Notre Dame, Ind., May 8-10. He delivered the inaugural lecture on "Globalization and its Impact on Small States" for the course of Finnish economic and political leaders which was organized by the National Fund for Research and Development in Helsinki, Finland, May 21. He presented a paper titled "Towards a Security Community in the Baltic Region" for a conference on Long-Term Security Prospects for the Baltic Sea Area organized by the Norwegian Institute of International Affairs in Oslo, Norway, May 23-24.

**Kathleen Maas Weigert**, professional specialist and associate director for academic affairs and research in the Center for Social Concerns, concurrent associate professor of American studies and fellow in the Kroc Institute, with **Kathy Royer**, director of community partnerships and service learning in the Center for Social Concerns, conducted a workshop on service-learning at Valparaíso University in Valparaíso, Ind., May 19. Weigert spoke on service-learning to faculty at DePaul University in Chicago, Ill., May 23.

**Eduardo E. Wolf**, professor of chemical engineering, presented a paper titled "Partial Oxidation of Methane to Syngas in a Fast Flow Membrane Reactor" co-authored with M. Allibrando at the Clean Fuels Symposium of the American Chemical Society Meeting in San Francisco, Calif., April 13-16. He presented two talks titled. "Nuevos Metodos de Diseno de Catalizadores y Reactores Cataliticos" at the Departamento de Ingenieria Quimica at the Universidad de Chile in Santiago, Chile, May 1-10.



# ADMINISTRATORS' NOTES

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## Honors

Frederick H. Baumer Jr., special assistant to the comptroller, a 1958 Notre Dame graduate, has received the John Cardinal O'Hara, C.S.C., Award from the Alumni Association. The O'Hara Award is named for the 13th president of the University, who later became the cardinal archbishop of Philadelphia. It is conferred annually on a graduate and former employee of Notre Dame who has rendered outstanding service to the University. Baumer served as University comptroller from 1975 until his retirement from that position last December. Hired as assistant comptroller, he directed the design project for Notre Dame's first computerized accounting system in 1972.

## Publications

Alan S. Bigger, director of building services, and Linda B. Bigger, assistant director of purchasing, wrote "Looking Ahead. Diversification: Key to Success in the 21st Century" published in the June 1997 issue of *Executive Housekeeping Today*.

## Faculty Senate Journal April 2, 1997

The chair Professor Richard McBrien called the meeting to order at 7:03 p.m. in room 202 of the Center for Continuing Education, and asked Professor Patrick Sullivan, C.S.C., to offer an opening prayer. The journal for the meeting of March 4 having been presented, the chair called for corrections, changes, etc. None was offered. Professor Jean Porter, seconded by Professor Philip Quinn, moved for approval, and the senate agreed. McBrien then made his chair's report, which is printed as appendix A of this journal, including an exchange of letters between the chair and the Director of Human Resources Roger Mullins, in regard to a health insurance issue. McBrien urged senators to run for senate office, and other faculty members to run for positions on the senate. Porter remarked on the difference in meaning between what Professor Mario Borelli had reported to the senate in March and what Mullins stated in his letter to the chair. Professor William Eagan said Borelli's report reflected what Mullins said at the meeting in question. McBrien asked Professor Michael Hemler to serve as acting chair of the Benefits Committee in Borelli's absence and review the correspondence to seek clarification, and he agreed to do so. Professor Joseph Blenkinsopp pointed out that Mullins did not directly answer McBrien's question on keeping confidentiality. Professor Jill Godmilow said that this issue concerned all faculty members, men and women, as a matter of rights.

The chair turned to the next item on the agenda: a memorial to the late Professor John Broderick, the only sitting senator in memory who passed away while a senator. McBrien read a memorial to Broderick, a former member of the law faculty, and then the senate observed a moment of silence in his memory. The memorial is printed as appendix B of this journal and will be sent to his family and colleagues. The senate then recessed for committee meetings.

Upon reconvening, the chair announced that Professor Ted Warfield had been elected to the 12th spot on the judicial review committee. Then followed committee reports.

**1. Academic Affairs** — the chair Professor Sonja Jordan said Vice President and Associate Provost Jeffrey Kantor had visited with the committee earlier in the evening to talk about computer support at Notre Dame, especially the new IBM proposal. The committee asked him many questions, particularly about whether faculty should subsidize its own access to this support. He agreed to ponder questions like this and consider them further. She urged next year's senate to monitor this area of activity very closely.

**2. Administration** — the chair Professor Clive Neal urged next year's senate to make the development of a faculty alcohol/drug abuse policy its number one priority; this year's committee did not have time to address the issue. The committee reviewed a letter from Professor Kenneth Sayre on a handicapped parking issue, and will seek information to try to resolve the situation. The committee will report a resolution later in the meeting.

**3. Benefits** — Hemler reported that the committee has many questions still on the birth control/health insurance issue, and will seek to find the answers. He will consult with McBrien on drafting a letter to Mullins asking: What does the policy say in fine print, what are the formal procedures, how is confidentiality maintained, and why is a consultation with priests necessary if a physician determines that some procedure is a medical necessity? Professor Richard Sheehan asked if the senate might have some answers by its last meeting at the end of April, and Hemler said he would try. Jordan wondered if the committee would ask this question: If a faculty member is not Catholic, is he or she still to have Catholic teachings imposed on him or her via medical insurance? Hemler said he would ask. Blenkinsopp wished to clarify what the provider of insurance says, so that the doctors may know. Professor Richard LaManna thought it was odd that no one until now even knew that this was a possibility; why was such possible coverage a secret? Godmilow agreed, saying the assumption has always been if something is medically necessary, you get it. McBrien pointed out that the discussion indicated a high level of interest in the topic; perhaps the senate should consider inviting Mullins to a meeting. Professor Jeffrey Bergstrand said it was a good start to look at the policies to see what coverages existed. Neal spoke of a personal experience with prescription coverage and pointed out that not as much is covered as one might think. The chair asked all senators to pose their questions and concerns to Hemler or himself, so that a letter to Mullins from the senate might incorporate these within the week.

**4. Student Affairs** — Sullivan said the committee will report a resolution later in the meeting. It has a letter prepared for the Academic Council in response to the North Central Association accreditation report's criticism of the Office of Student Affairs. It too believes the alcohol issue should be a high priority for the senate in 1997-98.

**5. Ad Hoc Nominating Committee** — the chair Professor Thomas Runge reported on its work. Its standards for running for senate office were minimal: not a member's first year on the senate, and interested in serving. It has no candidates as yet for chair or vice chair. Its goal is to report to the senate by April 15. Porter asked if the committee had two people for each of the other slots. No, according to Runge — only some yesses and maybes. Eagan asked him to clarify the standards for running, and Runge

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said familiarity and experience on the senate would count heavily. McBrien thanked the members of the committee for their work, and he hoped the myth of self-perpetuation (of the executive committee) would finally be obliterated.

On behalf of the executive committee (no second needed), Porter presented a motion to change the senate bylaws in several instances: as a follow-up to a recent resolution, one change would make the nominating committee a regular part of the senate and have it report to the full senate rather than the executive committee; the other change would make ex-officio members serve on committees. McBrien said the amendments had been distributed 10 days in advance, and approval would require an absolute majority of the full senate membership, as stipulated in the bylaws.

Godmilow asked why the bylaws would say "two candidates" rather than "at least two candidates" for each post. Porter said it seemed utopian to ask for more than two; she pointed out that even with the nominating committee slate any member could still submit a nomination from the floor. McBrien said the wording did not preclude the possibility of nominating more than two. The senate voted to approve the changes, 28-0-0. The changes are printed as appendix C of this journal.

A resolution on graduate student health insurance was presented by Neal on behalf of the Administration, Benefits and Academic Affairs Committees (no second needed). Porter wished to see the resolution strengthened by eliminating the clause "It is desirable." Neal said the committee wanted to be taken seriously and believed it was better to say "desirable." Professor Joel Urbany supported Neal, saying credibility was important. The senate was not a health expert, yet presumes to say what health insurance would be valuable for graduate students. Why be so specific? Neal responded that their specifics came from the Graduate Student Union (GSU), especially to cover families; they wanted to be credible but also to have points on which to build a discussion. Urbany wondered if Mullins had been advised of this resolution. Neal said he was not involved in it, but had told a senate committee his office would welcome such a resolution and would participate in its ultimate implementation (if passed and subsequently approved by the administration). Urbany asked if he had seen this specific resolution, and Neal said no. As a point of information Professor Ava Preacher said the Office of Student Affairs currently handled graduate student health insurance, not the Department of Human Resources.

Professor Michael Detlefsen spoke of the superior health insurance coverage other universities provide their graduate students (including those schools with medical schools), and this hurts Notre Dame's recruitment efforts.

Any resolution the senate would pass has to be based on the evidence at hand; this would only serve to increase our credibility and keep it high. In the case of this resolution, the senate need not say "It is desirable," but should simply propose the coverage, and in a friendly amendment he resolved to strike the clause. Neal agreed to do so.

Godmilow returned to the issue of Human Resources and their possible involvement, asking if they were willing to be. Jordan repeated what Mullins had told a senate committee, that he welcomed the chance, and James Carroll, the GSU representative to the senate, supported her. Quinn said the expertise of the department would be welcome in dealing and bargaining with providers, not necessarily in proposing coverage. Urbany asked if the length of coverage the senate was proposing was comparable to other universities. Neal said he did not have concrete data to answer that, but he knew some were better than this proposal, and some were not. Eagan moved the previous question, and the senate agreed to vote on the resolution. It was passed unanimously, 28-0-0.

The chair asked who should receive a copy of the resolution. The sense of the senate was to send copies to the following: provost, vice president for graduate studies and research, vice president for student affairs, Graduate Student Union, Academic Council committee on graduate studies, and director of human resources. The resolution is printed as appendix D of this journal.

Next the senate turned to a resolution from its Student Affairs Committee, calling for a student bill of rights to be included in the student handbook *du Lac* (no second needed). Sullivan acknowledged the good work of the new Student Union representative Brendan Kelly, and asked Professor Valerie Sayers to present the motion. She said that, before 1988, *du Lac* listed 14 rights available to students in disciplinary hearings; in 1988, that number was cut to five, and as published now there are none explicitly stated. Student Government, after some research, asked in the fall of 1996 for an explicit statement of student rights, but this request was denied by the vice president for student affairs. The Campus Life Council (CLC) also asked for this, and the vice president denied them too. The Student Affairs Committee, believing such a statement was good for the academic environment and life of the University, unanimously recommended passage of the resolution. Sheehan asked if Sayers would read a portion of the vice president's rejection letter in the senate, and she did. Sayers commented on the twisted logic in the letter: No judge had ever told the University to remove all rights — only to clarify those as they applied on campus. Sheehan asked if there was any student input into the process of revising *du Lac*. None, according to Sayers. Eagan wondered why the resolution did not include faculty in the process of revising *du Lac* to

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add a student bill of rights. Sayers said this was considered, but timing was a problem: *du Lac* would be revised for the fall 1997 semester; in addition the students had done a great deal of work already on the process and were well into their proposals for change. Preacher pointed out that the CLC had asked for student, rector and faculty input, and was denied. Eagan believed the faculty should be involved.

Sheehan felt that the resolution should be forwarded (if passed) not only to Student Affairs but also to the provost and the Academic Council. Sayers said Student Union will take the resolution (if passed) to the trustees. The chair said that, although trustees usually see what the senate has passed, it was often in his view a waste of time to send anything to them. They seemed nonresponsive. Sullivan, respecting the chair's view, said too often an administrator will use the excuse "The trustees won't let me do this." If we sent more to the trustees, maybe they would take better notice and administrators will not have such an excuse.

Sheehan moved a rewording of the "Be it resolved" clause to urge the Academic Council to require revision of *du Lac* to be done in collaboration with students, rectors and faculty. Detlefsen seconded. Porter asked to substitute another version of this clause, calling for action by the Academic Council rather than the Office of Student Affairs, in order to push the action in a direct line, where the senate has right of agenda. Jordan seconded. She would not include rectors and faculty, only as a matter of time and quick routing. Detlefsen moved as a friendly amendment to include rectors and faculty, and Porter agreed. Debate continued on Porter's substitution. Professor Greg Sterling asked if any senate action, especially this one, will be ignored or accomplish something; Porter had no ready answer, but no matter what the senate did, time would be a problem. Her substitute amendment asked for quick council action and then implementation by Student Affairs this spring and summer. LaManna worried about subsequent and fuller revisions of *du Lac*. Was this substitute strong enough? Porter thought it would be a mistake to push too much into the resolution, and she worried too that perhaps Student Affairs would say they already had input — albeit in an informal or unstructured or non-deliberative way. Sullivan agreed with Porter, and thought a separate resolution might be needed.

Neal, saying the issue of the student bill of rights should not be clouded, called the question, Eagan seconded, and the senate agreed to vote on the Porter amendment. The vote was 28-1-0. The senate then voted on the amended resolution and approved it, 29-0-0. The resolution is printed as appendix E of this journal.

Sullivan said his committee would defer consideration of its letter to the Academic Council to the next meeting because of the hour.

The senate then adjourned, at 9:35 p.m.

**Present:** Bayard, Bergstrand, Berry, Blenkinsopp, Carroll (Graduate Student Representative), Chami, Cholak, Davis, P., Derwent, Detlefsen, Eagan, Godmilow, Hemler, Huang, Jordan, Kelly (Student Government Representative), Lamanna, Lombardo, Mason, McBrien, Neal, Porter, Preacher, Quinn, Ramsey, Runge, Sayers, Sheehan, Sterling, Sullivan, Urbany, Williams

**Absent:** Biddick, Blakey, Borelli, Collins, Delaney, Garg, Gundlach, Schmid, Zachman

**Excused Absence:** Bigi, Borkowski, Buttigieg, Coll, De Langhe, Hill, Hyde, Kirkner, Rai, Sheerin

Respectfully submitted,

Peter J. Lombardo Jr.

## Appendix A

### Chair's Report April 2, 1997

1. Since January of this year I have been reporting regularly to the Faculty Senate on the progress, or lack thereof, of the administration's ad hoc committee named by the president of the University to address the issue of non-discrimination in University policies. As I reported earlier, University Counsel Carol Kaesebier indicated that the committee had decided to take a comprehensive approach, reviewing all University statements on non-discrimination and not just the item in the *Manager's Guidebook* to which the May 1996 resolution of the Faculty Senate referred. Attorney Kaesebier had hoped that her committee's work might be completed in time for consideration at the meeting of the officers of the University on February 18. That was not the case. Attorney Kaesebier indicated to me yesterday that, because of the travel schedules of various members of the ad hoc committee, the committee was also unable to address the issue in March. The next meeting of the ad hoc committee is scheduled for Monday, April 7. The next meeting of the officers is Monday, April 21. If there is time, the matter of non-discrimination in University policy statements will be discussed at the next meeting of the officers, but Carol Kaesebier can give no guarantees that it will be discussed. One hopes, nevertheless, that this matter will come to some closure during April. If not, I urge my successor in the chair to continue to pursue this matter until it is satisfactorily resolved.

2. The Faculty Senate's Nominating Committee, composed of Kathleen Biddick, Ikaros Bigi, Ralph Chami, David Kirkner, William Ramsey and Thomas Runge, has been duly constituted, has held its first meeting, and has elected its chair or convener, Professor and Colonel Thomas Runge. I will ask Tom to give us a progress report following the recess for standing committee meetings.

3. I would like to read into the record, for inclusion in the journal of this evening's meeting, my correspondence with Roger Mullins, associate vice president for human resources, regarding a matter that arose at last month's meeting of the Faculty Senate concerning health care benefits for birth control. [Reading of letter of March 7, 1997, to Roger Mullins, and of Roger Mullins's reply of April 1, 1997. See Appendix.]

4. The adjunct faculty survey developed by the senate's Committee on the Administration of the University and informally reviewed at last month's meeting of the senate has been forwarded to the Faculty Affairs Committee of the Academic Council for its consideration and for the subsequent consideration of the Academic Council's Executive Committee.

5. Special Faculty Senate elections were held by mail ballot between last month's senate meeting and this evening's. Just over half the membership of the senate returned ballots. The senate's co-secretary, Ava Preacher, has been re-elected to the Campus Life Council. Our colleague Kathleen De Langhe has been re-elected to the Board of Traffic and Parking Appeals. We had a tie vote for the 12th position on the Judicial Review Board. The following 11 members of the faculty have been elected: Charlotte Ames, Angie Chamblee, Kathleen De Langhe, Stephen Hayes, Carmela Kinslow, Kerry Marsh, Ava Preacher, Robert Rhodes, John Robinson, Susan St. Ville and Marsha Stevenson. Following this chair's report, there will be a run-off election between Rudolph Smith, assistant professor of aerospace studies, and captain, United States Air Force, and Ted Warfield, assistant professor of philosophy, for the 12th position on the Judicial Review Board.

6. Vice President and Associate Provost Jeffrey Kantor will meet with the Academic Affairs Committee this evening in room 106 to talk about computing.

7. I should like to make one final comment about the forthcoming elections to various committees and other University bodies. Based on the results of the annual poll of faculty conducted by the Faculty Senate, one is led to conclude, however reluctantly, that there is a low-level of willingness and readiness on the part of most members of the Notre Dame faculty to contribute to the academic governance of the University beyond their own fields of

research, and beyond their own departments, colleges, schools and libraries. Clear exceptions to this apparent parochialism are the library faculty and the special professional faculty. There are four candidates in the library faculty for one opening in the Faculty Senate, and eight candidates for one opening on the Academic and Faculty Affairs Committee of the Board of Trustees. Similarly, there are nine candidates within the Special Professional Faculty for one opening on the Academic Council and 10 candidates for two openings on the Faculty Senate. At the other end of the spectrum, the College of Business Administration yielded only one candidate for one opening on the Faculty Senate and only one candidate for one opening on the Provost's Advisory Committee (PAC). (There are no openings for the College of Business Administration on the Academic Council.) The College of Science yielded only one candidate for the Faculty Senate, where there are six openings, although there are 10 candidates for one science opening on the Academic Council. In the College of Engineering there are six candidates for one opening on the Academic Council, five candidates for one opening on the Academic and Faculty Affairs Committee of the Board of Trustees, four candidates (all full professors, as required) for one opening on the Provost's Advisory Committee, and *no* candidates for two openings on the Faculty Senate. In the Law School there is one candidate for one opening on the Academic Council. For purposes of comparison, in the largest academic unit, the College of Arts and Letters, there are 15 candidates for three openings on the Academic Council and eight candidates for seven openings on the Faculty Senate: five three-year terms and two one-year terms. To his credit, the dean of arts and letters, Harold Attridge, is working with the Elections Committee of his college to recruit additional candidates for the Faculty Senate. I am not aware of similar efforts in the other colleges.

When the Faculty Senate's Nominating Committee comes calling to invite members of the senate to consider standing for election as officers or committee chairs, please remember these statistics and their meaning. A University is only as good as its faculty, and a Faculty Senate is only as good as its membership and its leaders.

## Appendix B

### Memorial resolution in honor of Professor John Broderick

Whereas Professor Emeritus John J. Broderick was a member of the Faculty Senate since May 1994; and

Whereas Professor John Broderick served on the Law School faculty of the University of Notre Dame for

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twenty-nine years, from 1947 to 1976, and also for several years as Assistant Dean; and

Whereas Professor John Broderick served as President of Notre Dame's chapter of Phi Beta Kappa, as a member of the American Bar Association sections on international law, labor law, outer-space law, and education law, and as a member of the Indiana Criminal Justice Agency from 1969 through 1976; and

Whereas Professor John Broderick was known affectionately as "the Chief" from his days as an instructor in the Naval Officer Training Program at Notre Dame during the Second World War; and

Whereas Professor John Broderick's support of Notre Dame's athletic program was almost legendary, particularly his pep rallies in the Law School lounge on football weekends and his regular presence on the sidelines during games; and

Whereas his colleagues in the Law School faculty once recognized him in a resolution as "an indispensable part of the spirit and climate of the Notre Dame Law School" and as one who "touched so many minds and hearts [and] endeared himself to so many students — not only law students, but students all over the campus"; and

Whereas Professor John Broderick died on February 28, 1997;

Be it therefore resolved that the Faculty Senate of the University of Notre Dame express its affection and esteem for its late colleague, Professor John Broderick; and

Be it further resolved that the Faculty Senate express its appreciation for the many contributions Professor John Broderick made to the University of Notre Dame and particularly to its Law School during his time of service on its faculty; and

Be it further resolved that the Faculty Senate observe a moment of silence in grateful memory of Professor John Broderick; and

Be it further resolved that a copy of this resolution be sent to Professor Broderick's widow, Louise, and his daughter, Mary, and to the faculty of the Law School of the University of Notre Dame.

Passed unanimously  
April 2, 1997

## Appendix C

### II. STANDING COMMITTEES

#### Section 1. Senate Committees

The Committees of the Senate shall be an Executive Committee, and standing Committees on the Administration of the University, on Academic Affairs, on Student Affairs and on Benefits. The Chair shall annually appoint each member of the Senate to one of the Standing Committees excepting that ~~members~~ officers of the Senate ~~who are also members of the Academic Council~~ need not serve on any Standing Committee unless they so request. The Chair is empowered to appoint from the membership of the full Senate whatever ad hoc committees are necessary to conduct the business of the Senate.

#### Section 2. Executive Committee

For the annual election of the members of the Executive Committee, ~~the executive~~ a Nominating Committee, appointed by the Chair, shall prepare a slate of candidates for the Senate officers and standing committee chairs prior to the meeting at which the elections are held, and shall attempt to provide two candidates for each office. ~~In the event that the executive committee does not include at least one member~~ The Nominating Committee shall be composed of not less than five and not more than seven members drawn, as far as possible, from each of its constituencies (as enumerated in the Academic Articles of the *Faculty Handbook*). ~~Members from these constituencies shall be selected to join in the nomination process.~~

## Appendix D

### Graduate Student Health Care

Whereas the University is striving to become a national research institution; and

Whereas the strength of any research program depends on the quality of graduate students; and

Whereas it is the moral responsibility of the University to attend to the welfare of the graduate students as they are part of Notre Dame; and

Whereas adequate health benefits can be used not only to retain quality graduate students, but also to increase the quality of the applicant pool;

Be it therefore resolved that the University expeditiously improve the standard of graduate student health care, especially in the area of family coverage; and

Be it further resolved that such medical coverage be extended from enrollment to five years after enrollment, or to the point at which the student graduates or leaves the University, whichever comes first; with coverage after five years for a student in good standing to be determined annually on a case-by-case basis; and

Be it further resolved that in this endeavor, the Faculty Senate strongly urges the University to utilize the goodwill expressed and expertise developed by the Department of Human Resources to seek ways of improving graduate student health care.

Passed 28-0  
April 2, 1997

## Appendix E

### Student Bill of Rights

WHEREAS it is to the benefit of students, faculty and administration to understand clearly student rights in the context of university regulations regarding all areas of student life; and

WHEREAS the North Central Association of Colleges and Schools in their 1994 review of the University of Notre Dame expressed strong concern that students perceive the Office of Student Affairs as "an authoritarian and legalistic place where judgments are made without explanation and requests and proposals are routinely denied without rationale"; and

WHEREAS peer universities have clearly and formally articulated students' rights in the areas of academic and non-academic speech, procedures and appeal in disciplinary matters, rights of assembly, and so forth; and

WHEREAS the Office of Student Affairs affirms that student rights are implied in the text of the Notre Dame student handbook, *du Lac*, but refuses to set forth those rights explicitly in *du Lac*,

BE IT THEREFORE RESOLVED that the Academic Council requires the Office of Student Affairs to write, in complete collaboration with representatives from the Student Union, rectors and faculty, an explicit Student Bill of Rights and to publish it in the next edition of *du Lac*.

Passed 29-0  
April 2, 1997

## Appendix F

### Faculty Governance

A Report by Patrick J. Sullivan, C.S.C.

**Introduction** — This paper has three parts. One, a summary of the proceedings of a three-day conference, entitled "Shared Governance Versus Corporate Management," which was held on the Ann Arbor campus of the University of Michigan, September 6-8, 1996, under the sponsorship of A.A.U.P. Two, reflections on some applications to the University of Notre Dame. Three, suggested speakers and/or consultants for Notre Dame's Faculty Senate or an A.A.U.P.-contemplated conference on "Faculty Governance at Religiously Affiliated Colleges and Universities."

### I. Summary of Conference Proceedings

#### A. Themes Presented by

1. **Dr. Homer Neal**, Interim President, University of Michigan, Ann Arbor.

The faculty are the heart of the College or the University, called to the highest standards of scholarship and teaching, and collegiality and core values.

2. **Dr. Mary Burgan**, General Secretary of A.A.U.P.

In the document of the Western Governors Conference (referred to as "Virtual University"), faculty are called to fit in the re-engineering of the institution. Such would exclude faculty from decision-making processes, yet would hold the faculty responsible for many of the problems of modern academic institutions. The sources for such ideas are prevalent in "new" approaches to management flooding bookstores, especially Robert Frank and Philip Cook, *Winners Take All Society*, New York: Free Press, 1995. Whether we agree or disagree, these ideas represent an ideology and present a structure with which faculty must cope and deal. Corporate management is faced with endless competition and vast concentration of wealth in fewer and fewer people — with the consequent costs to others, especially employees and consumers. For academia the costs to faculty and students are terrifying and overwhelming.

Faculty are told to admit the need for tough leaders for tough times. Management is called the religion of the new culture. Education belongs to the managers. So, faculty should relinquish self-governance. The only value of the faculty is their contribution to competition. Hence, the search for superstars, famous for research, publications, athletics or management. Cash, sabbaticals and perks are made available to them. The crumbs are left to the teaching faculty.



## B. Basic Principles from A.A.U.P.'s "Redbook"

1. Presentation by Dr. Larry Gerber, History, Auburn University

A.A.U.P. 1966 "Statement on Governance of Colleges and Universities," jointly formulated with the Association of Governing Boards and the American Council of Education.

- a. Association of Governing Boards' seemingly present backtracking makes this document all the more striking. Originally, the universal principle of governance had to be a joint effort among faculty-administration-board.
- b. Communication and cooperation are of fundamental importance.
- c. The faculty had responsibility for curricular and classroom matters, teaching and research, promotion and tenure. Indeed, it was their "primary responsibility"!
- d. In selection of presidents, deans, etc., there was to be joint responsibility of faculty-administration-board.

## 2. A.A.U.P. 1994 "Statement on the Relationship Between Faculty Governance and Academic Freedom"

- a. Academic freedom cannot be enjoyed in a meaningful manner, if the faculty do not play a *primary* role in governance. That is, without participation in decisions on matters that control teaching, research, and curriculum issues.
- b. Whenever people feel intimidated about or do not enjoy academic freedom, shared governance is impossible. Academic freedom and faculty-shared governance are mutually reinforcing.

## C. Structures of Governance — Medium-Sized Private University, Vanderbilt University.

Presentation by Dr. Staros, Biology.

1. **Background** — 10,000 students, 1,600 faculty. Medical students less than 50 percent, while the rest are undergraduates in 10 schools. The largest number of undergraduates are in Arts and Sciences, Education, Engineering, Music.
2. **Structure** (academic and fiscal) — Most schools have Faculty Councils. In Arts and Sciences all curricular matters and work of standing committees answer to its Faculty Senate, as well as its educational policy, for legislation in regularly scheduled and open meetings.

## 3. Governance

- a. **Tuition drives income**, 87 percent of unrestricted funds in Arts and Sciences. Exception is Medical School.
- b. **Board of Trustees** — owns university and answers only to itself. An activist Board could be a problem. However, present Chancellor has been a faculty champion.
- c. **Faculty Senate** — established in 1967, an elected body with proportional representation from all schools, chaired by a faculty member. However, the Dean of each School is a voting member. Chancellor and other officers are *ex officio* but non-voting members. The university by-laws give the Chancellor power to dissolve any faculty body, including the Faculty Senate. Chancellor, by agreement, responds to any faculty resolutions, either by acceptance and implementation or by coming and explaining to Faculty Senate rejection of any resolutions. Despite the precarious structural flaw in governance, the present Chancellor's goodwill makes for good system.

## D. Faculty Participation in Selection and Evaluation of Administrators

Presentations by Dr. Donald Anderson, University of Michigan, Dearborn, Political Science; Dr. James Perley, Wooster College, English; Dr. William Plater, Vice Chancellor of Faculty, Indiana University/Purdue University (available upon request).

## E. Building Governance Participation by All the Faculty

1. **Leadership** — Leadership requires keeping pace with changes in the larger society. A.A.U.P. dimensions of faculty governance attend to curriculum development by proposing/implementing/evaluating new educational initiatives.
2. **Faculty Governance as Commitment to the Institution and Profession** — concern only for research and classroom teaching short-changes their institutions and profession. Thinking more globally, keeping up-to-date on the literature and direction's in one's own discipline and figuring out the directions one's discipline should take in the broader educational arena is the essence of an enlightened faculty member.
3. **Remedies for Faculty Non-Involvement Must be Pursued** and Governance should not be left to Administrators and Boards. Otherwise,
  - a. neglect of democratic character in the institution impedes university growth and functioning;
  - b. neglect of democratic character negatively affects faculty morale and effectiveness.

## F. Understanding the Budget and Impact of New Strategies on Faculty Governance

1. **Budget is the skeleton of the institution**, stripped bare of its misleading ideology and rhetoric, i.e., follow the money.

### 2. Universities must do with less

a. to update physical plant, telecommunications, instructional and research technologies;

b. to retool curriculum so that it reflects changing interests, composition of student body and increasing body of knowledge;

c. to initiate or expand considerably programs to address increasingly evolving and expanding role of modern university.

3. **Universities are re-thinking their internal systems** of resource allocations in order to be more cost-effective, in the face of an environment of slow or no or negative growth in funding from public and private sources.

a. **Historically University Budgeting** has been highly centralized, incremental and invisible to most faculty and lower administrators. Budgets in the past demanded little faculty time and energy.

b. **Currently University Budgeting** is a significant process of decentralization on expense and revenue side. Progressive university administrators know that the expertise for achieving success in the diversity of university goals lies in the faculty and not in the managers.

c. **Various Names for New Budgeting** — e.g., "Responsibility Centered Management" (RCM), "Performance Responsibility Budgeting" (PRB), "Revenue Responsibility Budgeting" (RRB). At Michigan it is "Value Centered Management" (VCM).

### 4. Faculty Reactions to VCM — initially mixed

a. **Welcoming** of opening to authentic and effective faculty participation.

b. **Skeptical** about "authenticity" and "effectiveness" of faculty participation, that is, will net benefits outweigh net costs?

### 5. Critically Objective Evaluation of VCM

#### a. Benefits

1) introduction to some sensitivity about real costs,

2) assistance in negotiating with university's monopolies or near-monopolies,

3) provision of best knowledge from each department, knowing its own needs best and how to spend its resources best,

4) affording units better control over their own futures, i.e., manages its own funds, makes its own space allocations, builds its own buildings.

#### b. Costs

1) Inhibiting cooperation.

2) Increasing self-serving behavior through political infighting among units.

3) Valuing moneys in a manner inconsistent with the avowed purpose and nature of the university.

4) Creating morale problems — i.e., transfer of resources to activities generating revenues arouses resentment among those living off subsidies.

5) Stimulating atmosphere fostering ill-conceived research and course offerings.

6) Generating greater transaction costs, i.e., staffing, record-keeping, accounting tasks better left to a central administration.

#### c. Remedies

1) Pilot experiments.

2) Clear mechanisms devised and used to effect cooperative behavior in pursuit of collective goals, i.e., retention of a share of revenues based on evidence of effective cooperative behavior.

3) Real penalties for persistent counter-productive or gaming behavior.

4) Honoring core values, threatened by VCM (i.e., collegiality, cooperation, collaboration) by taking seriously VCM's principles of decentralized responsibility, explicit and broadened accountability, increased openness, greater initiative, and attention to quality at every level.

5) Guiding the planning and implementation

a) enlarging a group can only increase its total knowledge base;

b) buying into university decisions, if honest and broad input is sought and not merely to co-opt them or enhance administrator's image by making faculty "feel good";

c) enhancing faculty's capacities and talents by participation in mutually determined activity in pursuit of mutually shared goals.

6) **Conclusion** — University governance is not a call to governing by plebiscite, a demand for consultation by everyone about everything. It is just a call for authentic leadership.

## G. Working with Boards — Presentations by

1. Shirley McFee, Board Member, University of Michigan, Ann Arbor — working relationship.

### a. What

1) Importance of open discussion and shared governance in civic and business spheres today.

2) Stress on fiduciary responsibility of Board members to university, public and body politic.

3) Strong role of faculty in assisting Board to develop suitable policies, especially in curriculum and teaching procedures.

4) Standards of university set by faculty. Thus, high quality faculty attract high quality students and vice-versa. Thus, need for adequate faculty compensation, working conditions, etc.

### b. How

1) Easy when economy on upward swing, or when there is a high birth rate, great student pool, etc. Difficult when there is a downturn, tenure problem, etc.

2) Communication essential between faculty, administrators, and Board. Board committees should hear faculty reports. Faculty should serve on Board special committees, e.g., Athletics.

2. John Walda, President of Board of Regents, Indiana University, Bloomington

a. President is the buffer in any attempt to by-pass the faculty on part of the Board.

b. Regular reports to the Board from Faculty Senate, etc.

c. Invitation to Faculty Senate Officers to sit-in on Board executive sessions for discussion on faculty related issues. "If that happened more often, the atmosphere would be better."

d. Faculty Retreats with Board members opportunities for mutual exchange and experience.

e. Greater faculty involvement in faculty governance, lest Board perceive a non-representative Faculty Senate, i.e., small numbers, ineffective proceedings, paucity of young faces.

f. Different concepts of time for faculty and Board. Often the perception is that the faculty will "wait-out" Board. Board is impatient to know not only *what* the faculty is going to do, but also *when* it is going to do it.

## H. Discussion After Presentations

**Participant** — Task Forces and Committees too often are "anointed" by administrators. Thus, Board and administrators can say, "See we have faculty input." The best insurance for faculty involvement is their own elected representatives. It will motivate the faculty to collaboration on budget, student recruitment, expansion of continuing education in wider community.

**Participant** — Boards should search for "non-market" language, better Board orientation. Faculty must realize the wider world is asking, "Why is education so expensive?"

**Participant** — Faculty role in presidential search committees is essential to collegiality.

**Participant** — Board and administrators must overcome their anxiety in thinking faculty representatives are "a radical fringe," while being comfortable with "the dog and pony shows" brought out to put spin on pseudo-collegiality.

**Participant** — Examine carefully the risks for junior faculty involvement in faculty governance. In many places evaluation process of Deans et al., was established to avert possibility of junior faculty having to confront administration with ideas and/or grievances early in career.

**Participant** — Pass periodic resolutions that no one not elected by the faculty speaks for the faculty. It educates administrators, Boards and faculty when faculty refuse to serve on "dog and pony shows."

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## II. Possible Applications to Notre Dame

### A. Re: Themes

1. Swelling of middle management in Academia, as well as in Business and Athletic areas of the University.
2. Preponderance of corporate leaders and lawyers on the Board of Trustees and paucity of academic leaders.

### B. Re: Basic A.A.U.P. Principles

1. Flaws in communications and cooperation from administration and Board, e.g., reappointment of president, vice president, provost in last five years.
2. Subtle ways of administration intimidation of academics and staffs, especially in the absence of contracts and/or tenure.

### C. Re: Structure of Governance

1. Corporate tone and symbols.
2. Salaries of business, academic and athletic managers.
3. Prevalence of "kingdom" and/or "corporation" rather than "community."
4. Limited role of faculty in planning, especially use of "anointed" faculty or committees rather than elected faculty.
5. Usurpation of "Colloquy 2000" as personal planning document by president three years ago.
6. Contrast power of Provost Advisory Committee, Academic Council, and Faculty Senate with Wartburg College's faculty role on Standing Committees and Faculty Groups (available upon request).
7. Notre Dame's adherence to A.A.U.P.'s standards would be less than average.
8. Ambiguities in Notre Dame's Faculty Senate's authority on paper and in reality.
9. Limited Faculty Senate's structural access and communication with Board as a whole or its committees.
10. Protection of Faculty Senate from dissolution by Board and/or administration.
11. Failure of appropriate officers to respond in a timely fashion, let alone in person, to Faculty Senate's resolutions.

12. Little or no reference to governance in "Colloquy 2000," despite prominent place of participation in Catholic Social Teaching.

### D. Mechanics of Faculty Governance

1. Lack of Faculty Senate representatives on Advisory Councils of Colleges and Schools.
2. Need to clarify, expand and publicize any grievance procedures for faculty, staff administrators and students, especially for protection of "whistle-blowers."
3. Examination of purposes, competency, and reimbursement of consultants, especially in view of increase of "the suits."
4. Promotion material to encourage more faculty in Faculty Senate, i.e., dedication to "N.D. Community," governance as integral part of academic profession, outreach for agenda items crucial to faculty, curbing role of "anointed," improving faculty morale.
5. Virtual ignoring of faculty in establishing departments, colleges, centers and university budgets.
6. Service of faculty, especially Faculty Senate representatives, on Board committees as widely and frequently as possible.
7. President should ensure faculty, and especially Faculty Senate, access to Board.
8. Arrangement for retreat and/or joint meeting of Executive Committees of Board and Faculty Senate.
9. Meeting of new Board members with Executive Committee of Faculty Senate.
10. Urging faculty to resist temptations to become administrators' "anointed ones," especially by "blowing the cover" of present ones.

## III. Suggested Speakers and/or Consultants—based on their positive impression at A.A.U.P. conference at Ann Arbor:

- Gregory Scholtz, Wartburg College
- James V. Staros, Vanderbilt University
- Larry Gerber, Auburn University
- James Perley, A.A.U.P. President
- Mary Burgan, A.A.U.P. General Secretary
- John Hopper, Rockhurst College
- Gregory Markus, University of Michigan, Ann Arbor
- Donald Anderson, University of Michigan, Dearborn
- John Walda, President, Indiana University Board of Regents

## University Committee on Libraries April 14, 1997

The meeting was called to order at 8 a.m. the Foster Room at LaFortune Student Center by Chairman John Halloran. Also in attendance were John Adams, Harvey Bender, Robert Coleman, Maureen Gleason, Christopher Hamlin, Janis Johnston, Alan Krieger, Larry Rapagnani, Steven Schmid, Laurence Taylor and secretary Melodie Eiteljorge.

The minutes of the meeting of March 17, 1997, were approved as written.

Prior to the meeting, and based on discussions at the last meeting, Maureen Gleason distributed by e-mail a draft resolution on the cataloging of the Snite Museum collection. This project would be the responsibility of the new art/architecture librarian position. She proposed that she send it on to the Cataloging Department for their response.

Robert Coleman asked if the person in the new position will have enough time for such a project. Gleason responded that he or she would coordinate the project but not necessarily do the cataloging. Larry Rapagnani asked about the effect of a new system on such a project. Gleason replied that there would be no real effect. The same work would be done under any system.

Approval of the resolution would also have funding implications. If the cost is to come from the library budget, Cataloging would submit a request as part of the regular budget process. Coleman suggested that Dean Porter might be willing to seek outside funding.

Chris Hamlin asked about the process of seeking donors for projects. Gleason replied that normally we begin by receiving suggestions for funding possibilities, frequently the acquisition of collections. Advancement Officer Katharina Blackstead, in coordination with faculty members and librarians, develops proposals. The Development Department maintains a file of proposals which they offer to prospective donors according to the area of interest and the amount they wish to support. This is an ongoing process.

Halloran called for a vote on whether or not to forward the resolution on behalf of the committee. By a show of hands, the vote was unanimous in favor of this.

At the last meeting, there was a discussion of problems in getting access to journal articles, both owned and not owned by the libraries. A library group is meeting to identify ways in which patrons retrieve and use serial literature and levels of satisfaction with current access.

Since the last meeting, the group's focus has become more specific. They will examine alternative approaches including: circulation (loan periods, recall strategies, re-shelving practices); photocopying and printing of journal articles (ease of access, costs, impact of the new single ID card); clipping and indexing of articles in the International Studies Resource Center (use, satisfaction, alternatives); retrieval of articles not owned by Notre Dame (interlibrary loan and alternative services); and local delivery of articles to individual users.

Gleason asked for any further comments. Halloran asked about the status of having the group contact college councils. Gleason replied that she forwarded that suggestion to the group but has not heard back from them. She assumes they will go forward with it.

Gleason noted that if there are any significant policy changes proposed, these will be brought back to the University Committee on Libraries (UCL) for comment. Meanwhile, the library group is seeking input throughout campus.

John Adams asked about the possibility of direct user requests, outside interlibrary loan. He feels this would be useful. Gleason replied that this is a possibility which will probably be implemented eventually. Some libraries have done it. It does, however, require some technical programming. It must be set up so that articles are not being ordered and charged from journals we already have available here. Halloran asked about budget implications for such a project. Gleason replied that we can generally base estimates on the experiences of other libraries. Adams suggested that there could be a system for charging articles to users' accounts. Gleason agreed that there are many possibilities; she does not know the ramifications of the new single ID card system. Halloran asked if there are exceptions or differences among departments that might hinder this. Gleason replied that she does not think we must have one rule that applies everywhere.

Gleason noted that there have been some objections to the circulation of serials over the years. Our policy is more liberal than those of many libraries. The target date for the library group to submit initial proposals is September 1. Those proposals will be submitted to UCL for the group's reactions. There are certain limitations because of time constraints. Harvey Bender noted that many departments have library committees that might be able to provide input. Gleason stated that she will be meeting with the task force and will determine their approach. She added that the task force is representative of all areas of the libraries.

Gleason next reported on the search for a new automated system. A request for information (RFI) was sent out on

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March 31 to 10 vendors. Their responses are due back by May 1. The Task Force on Systems Migration will also conduct some site visits between now and then to four or five installations of the most likely systems. Before the end of the fiscal year they hope to have a recommendation on the top two to three candidates. Copies of the RFI have been sent to Nathan Hatch, Jeffrey Kantor and Larry Rapagnani.

Bender asked about the process of choosing a vendor. Gleason replied that the task force has been studying information and talking to a number of people. The process began last year with a series of demonstrations in the libraries. Vendors also set up displays at the winter American Library Association (ALA) meeting. Bender asked about the anticipated cost. This can vary, but Gleason estimates it will be at least \$700,000. Halloran asked if the University administration is aware of the funding needs. Gleason replied that they are and that they realize the initial costs are considerable. The goal is to sign a contract by September for full installation in the summer of 1998.

The next agenda item, proposed prior to the meeting by Chris Hamlin, was the confidentiality of patron records. He stated that he is aware of the current policy, which requires the submission of a form from anyone who does not wish to have his or her name released. His question is: Why is it that one can only request information about a borrower in person? Why can't this be handled by telephone? This would be more convenient, especially since the requested book might well be in an office next door.

Gleason provided some background on the policy, which is contrary to general library practice. Most libraries, as recommended by ALA, do not reveal names under any circumstances. The creation of a form was a compromise because of a widespread objection on campus to a general refusal to reveal names. Thus, any further compromise is unlikely. Under the present policy, one must verify membership in the University community through an ID card, which is run through the system. This must be done in person.

Bender recalled that there were many discussions about this in UCL a few years ago. There were such considerations as mischief, legalities and federal investigations. At the time, the committee agreed that there were legitimate needs but felt that a compromise was the best solution. He asked if this problem is occurring with great regularity. Hamlin replied that it is fairly frequent. He feels the compromise policy is a good one and understands the problem of security. Still, he wonders if there is a solution that would eliminate the need to appear in person.

Janis Johnston noted that in the Law Library they sometimes take a name and number, then call the person who has the material to forward the request. Gleason replied that the problem with this is the difference in scale. One must balance how much time can be devoted.

Gleason stated that she would not want to make the process routine. Since most libraries find it unacceptable to release patron records at all, she would argue for making requests a little troublesome. There have been complaints in the past that people have received late night phone calls, etc., asking for books. She will ask library administrators how the current policy is working and if there are any new approaches that can be made. However, she would discourage any loosening of the policy.

In following up with an earlier discussion, Halloran asked about the status of setting up a meeting with Sonja Jordan of the Academic Affairs Committee of the Faculty Senate. Gleason replied that she recently sent a reply to Jordan, addressing each of the committee's questions. It is her understanding that the committee is postponing this until next year. Meanwhile, if the library director meets with the committee, she will recommend that the chair of UCL attend as well.

Gleason next announced that Professor Milton Anastos died on April 10 in California. For many years he has been working closely with the libraries and building a Byzantine collection which will come to Notre Dame. Bender suggested that UCL write a letter of condolence to Professor Anastos' widow, Rosemary Park, who has been a Trustee of the University. Halloran agreed to draft a letter on behalf of the committee.

There being no further business, the meeting adjourned at 8:50 a.m.

Respectfully submitted,

Melodie Eiteljorge  
Secretary

## Summary of the Minutes of the Faculty Board on Athletics January 29, 1997

**In attendance:** Rev. E. William Beauchamp, C.S.C., chair; Professor Tex Dutile; Professor Morton Fuchs; Professor Joseph Guiltinan; Professor Alexander Hahn; Professor Kate Halischak, recorder; Professor George Howard; Professor David Kirkner; Ms. Kristine Kramer; Professor James McAdams; Professor Patricia O'Hara; Professor William Ramsey; Mr. Michael Wadsworth

**Absent:** Professor Frank Reilly

**Visitors:** Fr. Mark Poorman

The meeting was called to order at 4:38 p.m.

The minutes of the December 19, 1996, meeting were accepted.

1. Father Beauchamp presented for board consideration the revised playing schedule for Men's Golf. The board voted approval.
2. Father Beauchamp presented for board consideration the recommendations for monograms in Men's Soccer, as well for Raki Nelson in Football (he was left off the original list). The board voted approval of these monograms.
3. Father Beauchamp presented for board consideration the names of Mara Grace and Eileen Regan as captain candidates in Women's Lacrosse. He also presented the names of Holly Manthei, Julie Maund and Kathryn Sobero as captain candidates in Women's Soccer. The board voted approval of all names.
4. Father Beauchamp presented information regarding the academic performances of student-athletes during the fall semester. Of the 689 student-athletes, cheerleaders, trainers and managers, 179 made the dean's list, 475 were in good standing, 25 went on probation, six graduated, and four had x-grades. The report also included semester and cumulative GPA's for each sport.
5. Father Beauchamp handed out copies of the voting results at the NCAA convention held earlier this month in Nashville. No discussion followed.
6. Mr. Wadsworth brought to the board's attention several recent news articles that discussed the return of certain senior Football players for a fifth year of competition. He wanted the board to know that all of these players are in the process of writing their letters of appeal that

must come before the board for approval. Professor Kirkner raised questions regarding the fifth-year policy and its difference from other universities' "red-shirt" policies. Board members engaged in a discussion of the policy, but the discussion ended when Fr. Beauchamp brought the board back to the main topic for the meeting: senior grant-in-aid student-athletes living off campus.

7. Professor O'Hara was asked to present information pertinent to the question of senior student-athletes living off campus. Professor O'Hara discussed her concerns that (1) although student-athletes do not comprise a disproportionate number of total University disciplinary matters, they do comprise a disproportionate number of the more serious disciplinary cases; and (2) without the resources of the residential system and Campus Security, Student Affairs faces significant obstacles in obtaining information and conducting effective disciplinary hearings to address behavioral problems involving off-campus students. In light of these factors and the national attention focused on the conduct of student-athletes, Professor O'Hara argued that the University's institutional interests warranted the on-campus residence requirement for student-athletes who receive grant-in-aid.

Following her presentation, board members engaged in a discussion of the topic. The majority of the board was in favor of seniors living off (Professor O'Hara voted against the initial proposal to allow senior student-athletes to live off campus); however, the board was divided on the types of restrictions to apply. Ultimately, the board voted to allow senior grant-in-aid student-athletes to live off campus under the following provisions:

- They must petition the athletic director
- They must receive clearance from the Office of Student Affairs
- They must have their coach's permission
- They must have the athletic director's permission
- They must have a cumulative 2.70 GPA or have had 3.00 semester GPA in the two preceding semesters

The meeting was adjourned at 6:35 p.m.



## Summary of the Minutes of the Faculty Board on Athletics March 19, 1997

**In attendance:** Rev. E. William Beauchamp, C.S.C., chair; Professor Tex Dutile; Professor Morton Fuchs; Professor Joseph Guiltinan; Professor Alexander Hahn; Professor Kate Halischak, recorder; Professor George Howard; Ms. Kristine Kramer; Professor Patricia O'Hara; Professor William Ramsey

**Absent:** Professor David Kirkner; Professor James McAdams; Professor Frank Reilly; Mr. Michael Wadsworth

**Visitors:** Fr. Mark Poorman and Ms. Missy Conboy

The meeting was called to order at 4:35 p.m.

The minutes of the January 29, 1997, meeting were accepted with additional comments provided by Professor O'Hara to be incorporated as an official part of the board minutes.

1. Ms. Conboy presented an update on off-campus living requests by grant-in-aid third-year student-athletes. She stated that of the 34 eligible candidates, 24 had requested permission to move off campus next year. Twenty-one were approved, but only 16 have chosen to move off campus.
2. Father Beauchamp presented for board consideration the playing schedule for Men's Soccer and Women's Soccer. The board voted approval.
3. Father Beauchamp presented for board consideration the recommendations for monograms for Cheerleaders, Men's Fencing, and Women's Fencing. The board voted approval.
4. Father Beauchamp presented for board consideration addenda to the recommendations for monograms in Football and Managers. The board voted approval of these monograms.
5. Father Beauchamp presented for board consideration the names of Stephen Cardwell, John Kennedy, Brian Najarian and Slade Stolz as captain candidates in Men's Swimming. The board voted approval of all names. (A third name was withdrawn.)
6. Father Beauchamp presented for board consideration requests for a fifth year of eligibility in Football for Chris Clevenger, Melvin Dansby, Mike Doughty, Rick Kaczinski and Ron Powlus. After a discussion of the candidates, the

board voted approval for each petition. Board members asked to discuss the issue of fifth-year eligibility in upcoming meetings. Father Beauchamp asked Ms. Conboy and Professor Halischak to gather information on the performance of fifth-year students and present it at an upcoming meeting.

7. Father Beauchamp informed the board regarding upcoming changes in shoe and apparel contracts for the University's athletic teams. He then updated the board on negotiations concerning the television broadcasting rights that would extend the NBC contract.

8. Father Beauchamp asked the Board to reconvene on April 9 to vote on the Byron V. Kanaley Award, which is annually awarded to the senior monogram athlete who is most exemplary as a student-athlete and as a leader.

The meeting was adjourned at 5:55 p.m.

## Summary of the Minutes of the Faculty Board on Athletics April 9, 1997

**In attendance:** Rev. E. William Beauchamp, C.S.C., chair; Professor Tex Dutile; Professor Morton Fuchs; Professor Joseph Guiltinan; Professor Alexander Hahn; Professor Kate Halischak, recorder; Professor George Howard; Professor David Kirkner; Ms. Kristine Kramer; Professor James McAdams; Professor Patricia O'Hara; Professor William Ramsey; Mr. Michael Wadsworth

**Absent:** Professor Frank Reilly

The meeting was called to order at 4:37 p.m.

The minutes of the March 19, 1997, meeting were accepted.

1. Father Beauchamp presented for board consideration the recommendations for monograms for Men's Tennis. The board voted approval.
2. Father Beauchamp presented for board consideration the names of Melvin Dansby, Ron Powlus and Allen Rossum as captain candidates in Football. He also presented the names of Matt Johnson and Ryan Turner as captain candidates in Men's Soccer. The board voted approval of all names.
3. Father Beauchamp presented for board consideration requests for a fifth year of eligibility in Women's Tennis for Erin Gowen. After a brief discussion of the candidate, the board voted approval for the petition.

4. Father Beauchamp called to the board's attention a letter he had received from Dean Eileen Kolman writing on behalf of the University Committee for the First Year of Studies expressing concern about first-year student-athletes traveling to away games. Father Beauchamp asked Mr. Wadsworth to talk to coaches about their travel policies, and he asked Professor Halischak to provide data on the travel done by first-year student-athletes this year. All of this information is to be presented in an upcoming meeting when the board will discuss this issue.

5. Father Beauchamp asked the board for its vote on the Byron V. Kanaley Award, which is annually awarded to the senior monogram athlete who is most exemplary as a student-athlete and as a leader. The board noted the number of strong candidates, discussed many of the candidates, and then voted to award Pete Miller of Men's Basketball, Bill Lester of Men's Fencing, Jen Renola of Women's Soccer, and Katie Marten of Softball 1997 Byron V. Kanaley Awards.

The meeting was adjourned at 5:35 p.m.

## Summary of the Minutes of the Faculty Board on Athletics May 2, 1997

**In attendance:** Rev. E. William Beauchamp, C.S.C., chair; Professor Tex Dutile; Professor Morton Fuchs; Professor Joseph Guiltinan; Professor Alexander Hahn; Professor Kate Halischak, recorder; Professor David Kirkner; Ms. Kristine Kramer; Professor James McAdams; Professor Patricia O'Hara; Professor William Ramsey; Professor Frank Reilly; Mr. Michael Wadsworth

**Absent:** Professor George Howard

**Visitor:** Rev. Mark Poorman, C.S.C.

The meeting was called to order at 9:35 a.m.

The minutes of the April 9, 1997, meeting were accepted.

1. Father Beauchamp noted that the final term of Professor David Kirkner on the Faculty Board on Athletics was ending. He thanked Prof. Kirkner for his service to the board.

2. Father Poorman and Professor McAdams informed the board of progress made in the Academic Honors Program for Student-Athletes. In particular, they discussed a faculty-student mentoring program meant to begin this upcoming fall term in which faculty members will be paired with student-athletes interested in their field of study.

3. Father Beauchamp presented for board consideration the recommendations for monograms for Men's Basketball, Women's Basketball, Men's Golf, Women's Golf, Hockey, Women's Lacrosse, Softball, Men's Swimming, Women's Swimming and Women's Tennis. The board voted approval.

2. Father Beauchamp presented for board consideration the names of Patrick Garrity and Derek Manner as captain candidates in Men's Basketball; Stephane Auriol and Luke LaValle in Men's Fencing; Myriah Brown and Anne Hoos in Women's Fencing; Bryan Weeks in Men's Golf; Katherine King and Tracy Melby in Women's Golf; Kelly Nichols and Kelly Rowe in Softball; and Kelley Olson in Women's Tennis. The board voted approval of all names.

3. Father Beauchamp presented for board consideration requests for a fifth year of eligibility in Baseball for Larry Mohs, in Football for Cikai Champion, and in Women's Track for Heidi Reichenbach. After a brief discussion of the candidates, the board voted approval for the petition.

4. Father Beauchamp asked the board for its permission to act on the board's behalf in routine matters throughout the summer. He proposed a possible meeting in June if board members were available to begin discussion of issues regarding the fifth year of eligibility and travel by first-year students to away games.

The meeting was adjourned at 10:40 a.m.

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Jacobs, Dennis C.

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## COLLEGE OF ENGINEERING

### Aerospace and Mechanical Engineering

Renaud, John E.

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### Chemical Engineering

Brennecke, Joan F.

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J. Zhang, K.A. Connery, J.F. Brennecke and J.E. Chateauf. 1996. Pulse Radiolysis Investigations of Solvation Effects on Arylmethyl Cation Reactivity in Supercritical Fluids. *Journal of Physical Chemistry* 100 (30): 12394-12402.

Stadtherr, Mark A.

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M.A. Stadtherr. 1997. Strategies for Chemical Process Engineering Using Parallel Computation. In *Proceedings, 1997 NSF Design and Manufacturing Grantees Conference*, Arlington, Va., 93-94.

Strieder, William C.

W.C. Strieder. 1997. Radiation Heat Transport in Disordered Media. *Advances in Water Resources* 30 (2-3): 171-187.

S. Fitzgerald and W.C. Strieder. 1997. Radiation Heat Transfer Down and Elongated Spheroidal Cavity. *American Institute of Chemical Engineers Journal* 43 (1): 2-12.

M. Maalmi, W.C. Strieder and A. Varma. 1997. Spatiotemporal Evolution of Conversion and Selectivity for Simultaneous Noncatalytic Gas — Solid Reactions in a Compact of Particles. *Industrial and Engineering Chemistry Research* 36:1470-1479.

Varma, Arvind

M. Apostolo, A. Tredici, M. Morbidelli and A. Varma. 1997. Propagation Velocity of the Reaction Front in Addition Polymerization Systems. *Journal of Polymer Science, Part A: Polymer Chemistry* 35:1047-1059.

S. Hwang, A. S. Mukasyan, A.S. Rogachev and A. Varma. 1997. Combustion Wave Microstructure in Gas-Solid Reaction Systems: Experiments and Theory. *Combustion Science and Technology* 123:165-184.

See under Strieder, William C. 1997. *Industrial and Engineering Chemistry Research* 36:1470-1479.

### Electrical Engineering

Bauer, Peter H.

K. Ralev and P.H. Bauer. 1997. Implementation Options for Block Floating Point Digital Filters. In *Proceedings, 1997 International Conference on Signal Processing*, Munich, Germany, 2197-2200.

P.H. Bauer and K. Permaratne. 1997. Limit Cycles in Delta-Operator Formulated I-D and m-D Discrete Time Systems with Fixed Point Arithmetic. *IEEE Transactions on Circuits and Systems, Part I: Fundamental Theory and Applications* 44 (6): 529-537.

# THE GRADUATE SCHOOL OFFICE OF RESEARCH

Michel, Anthony N.

L. Hou and A.N. Michel. 1997. Robust Stability of Systems with Saturation Constraints. In *Proceedings, 1997 American Control Conference*, vol. 3, Albuquerque, N.Mex., June 4-6, 1724-1728.

L. Hou and A.N. Michel. 1997. Stability Analysis of a General Class of Hybrid Dynamical Systems. In *Proceedings, 1997 American Control Conference*, vol. 5, Albuquerque, N.Mex., June 4-6, 2805-2809.

## COLLEGE OF BUSINESS ADMINISTRATION

### Economics

Goulet, Denis A.

D.A. Goulet. 1996. Desarrollo Economico, Desarrollo Humano ¿Como Medirlo?: Evaluando los Costos y Beneficios Culturales del Desarrollo. Lima, Peru: Fundacion Freidrich Ebert, 119 pp.

### Finance and Business Economics

Tenorio, Rafael A.

R.A. Tenorio. 1997. On Strategic Quantity Bidding in Multiple Unit Auctions. *Journal of Industrial Economics* XLV (June): 207-217.

R.A. Tenorio and L.S. Goldberg. 1997. Strategic Trading in a Two-Sided Foreign Exchange Auction. *Journal of International Economics* 42 (May): 299-326.

## RADIATION LABORATORY

Guldi, Dirk M.

Guldi, D.M. 1997. Capped Fullerenes: Stabilization of Water-soluble Fullerene Monomers as Studied by Flash Photolysis and Pulse Radiolysis. *Journal of Physical Chemistry A* 101 (21): 3895-3900.

B. Mainusch, A. Karocki, D.M. Guldi, Z. Stasicka, F. Wasgestian. 1997. Charge Transfer Photochemistry of Reinecke's Salt and Some of its Analogues Containing Organic Amines. *Inorganica Chimica Acta* 255: 87-93.

Kamat, Prashant V.

U. Stafford, K.A. Gray and P.V. Kamat. 1997. Photocatalytic Degradation of 4-chlorophenol: A Mechanistically-based Model. *Research on Chemical Intermediates* 23 (4): 355-388.

U. Stafford, K.A. Gray and P.V. Kamat. 1997. Photocatalytic Degradation of 4-chlorophenol: The Effects of Varying TiO<sub>2</sub> Concentration and Light Wavelength. *Journal of Catalysis* 167:25-32.

C. Nasr, K. Vinodgopal, S. Hotchandani, A.K. Chattopadhyay and P.V. Kamat. 1997. Photocatalytic Reduction of Azo Dyes Naphthol Blue Black and Disperse Blue 79. *Research on Chemical Intermediates* 23 (3): 219-231.

P.V. Kamat, M. Gevaert and K. Vinodgopal. 1997. Photochemistry on Semiconductor Surfaces. Visible Light Induced Oxidation of C<sub>60</sub> on TiO<sub>2</sub> Nanoparticles. *Journal of Physical Chemistry B* 101 (22): 4422-4427.

C. Nasr, P.V. Kamat and S. Hotchandani. 1997. Photoelectrochemical Behavior of Coupled SnO<sub>2</sub>/CdSe Nanocrystalline Semiconductor Films. *Journal of Electroanalytical Chemistry* 420:201-207.

## KROC INSTITUTE FOR INTERNATIONAL PEACE STUDIES

Valenzuela, J. Samuel

J.S. Valenzuela. 1997. Hacia la formación de instituciones democráticas: Prácticas electorales en Chile durante el siglo XIX. *Estudios Públicos* 66 (Fall): 215-257.

Väyrynen, Raimo.

R. Väyrynen. 1997. Preventive Action: Failure in Yugoslavia. In *The U.N., Peace and Force*, ed. M. Pugh. London: Frank Cass, 21-42.

## LAW SCHOOL

Fick, Barbara J.

B.J. Fick. 1997. *The ABA Guide to Workplace Law*. New York, N.Y.: Times Books. xv + 192.

B.J. Fick. 1997. Federal Labor and Employment Law. In *Specialized Legal Research*, ed. L.F. Chanin, 5-1-5-70. New York, N.Y.: Aspen Law and Business.

Kaveny, M. Cathleen

M.C. Kaveny. 1997. Assisted Suicide, Euthanasia, and the Law. *Journal for Peace and Justice Studies* March.

# THE GRADUATE SCHOOL OFFICE OF RESEARCH

## Awards Received and Proposals Submitted

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

### AWARDS RECEIVED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	7	822,603	15	646,854	22	1,469,457
Facilities and Equipment	0	0	0	0	0	0
Instructional Programs	0	0	0	0	0	0
Service Programs	0	0	3	4,883	3	4,883
Other Programs	<u>0</u>	<u>0</u>	<u>5</u>	<u>1,141,760</u>	<u>5</u>	<u>1,141,760</u>
Total	7	822,603	23	1,793,497	30	2,616,100

### PROPOSALS SUBMITTED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	13	1,353,136	21	5,595,324	34	6,948,460
Facilities and Equipment	0	0	0	0	0	0
Instructional Programs	0	0	0	0	0	0
Service Programs	0	0	0	0	0	0
Other Programs	<u>0</u>	<u>0</u>	<u>4</u>	<u>1,290,355</u>	<u>4</u>	<u>1,290,355</u>
Total	13	1,353,136	25	6,885,679	38	8,238,815

# THE GRADUATE SCHOOL OFFICE OF RESEARCH

## Awards Received

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

### AWARDS FOR RESEARCH

#### Aerospace and Mechanical Engineering

- Thomas, F.  
Characterization of Unsteady Aspects of Jet Screech  
McDonnell Douglas Corporation  
\$35,000 8 months
- Corona, E.  
Bending of Aluminum Extrusions  
ALCOA  
\$19,952 7 months
- Mueller, T.  
Propeller Blade Response to Inflow Distortion  
Department of the Navy  
\$70,000 7 months
- Skaar, S.  
Camera Space Manipulation Using Tripod Operators  
Department of the Navy  
\$13,000 28 months
- Renaud, J.  
Prototype Parts for Roof Lifter  
Jayco, Inc.  
\$480 12 months

#### Biological Sciences

- Grimstad, P.  
Arbovirus Surveillance Laboratory Service  
Indiana State Department of Health  
\$26,578 12 months
- McAbee, D.  
Hepatic Metabolism of Lactoferrin  
National Institutes of Health  
\$152,505 12 months

#### Civil Engineering and Geological Sciences

- Westerink, J.  
Enhancements of ADCIRC for Inlets  
U.S. Army Corps of Engineers  
\$60,000 60 months

#### Chemistry and Biochemistry

- Smith, B.  
Molecular Recognition Using Organoboron Acids  
National Science Foundation  
\$83,000 24 months
- Novel Membrane Processes  
American Chemical Society  
\$125,000 60 months
- Miller, M.  
Siderophores, Analogs and Bioconjugates  
National Institutes of Health  
\$277,358 12 months
- Huber, P.  
Protein Binding Domains on Eukaryotic 5S rRNS and rDNA  
National Institutes of Health  
\$211,438 12 months
- Basu, S., Blasquez, V.  
Structure/Function of Chromatin in B-Cell Development  
National Institutes of Health  
\$79,724 6 months

#### Computer Science and Engineering

- Lumsdaine, A.  
Parallelism for Computational Science and Engineering  
National Science Foundation  
\$62,361 36 months
- Hu, X.  
Design Exploration for Real-Time Embedded Systems  
National Science Foundation  
\$151,177 36 months

#### Electrical Engineering

- Costello, D.  
REU Supplement in Convolutional Codes  
National Science Foundation  
\$5,000 24 months
- Hall, D.  
Model 2010 Upgrade  
Metricon Corp.  
\$680 36 months
- Collins, O.  
Equipment Supplement  
National Science Foundation  
\$17,000 27 months



# THE GRADUATE SCHOOL OFFICE OF RESEARCH

## Government and International Studies

Barber, S.  
Welfare and the Instrumental Constitution  
American Council of Learned Societies  
\$20,000 12 months

## Mathematics

Herzog, I.  
Model Theory of Modules  
National Science Foundation  
\$18,000 24 months

## Sociology

Hachen, D., Davern, M.  
Social Networks and Labor Market Mobility  
National Science Foundation  
\$4,204 12 months

## Theology

Ashley, J.  
Ignatius and the Theologians  
Jesuit Institute at Boston College  
\$37,000 12 months

## AWARDS FOR SERVICE PROGRAMS

### Center for Continuing Formation in Ministry

Lauer, E.  
Center for Continuing Formation in Ministry  
Various Others  
\$2,229 1 month

### Center for Pastoral Liturgy

Bernstein, E.  
Center for Pastoral Liturgy  
Various Others  
\$1,476 1 month  
Center for Pastoral Liturgy  
Various Others  
\$1,178 1 month

## AWARDS FOR OTHER PROGRAMS

### Civil Engineering and Geological Sciences

Kareem, A.  
Large Scale Wind Testing Facility Workshop  
National Institute of Standards and Technology  
\$8,000 3 months  
U.S. Japan Panel on Wind and Seismic Effects  
National Science Foundation  
\$9,500 12 months  
Large Scale Test Facility  
National Science Foundation  
\$19,980 12 months

### GEM Program

Johnson, R., Fortenberry, N.  
Doctoral Bridge Project  
National Aeronautics and Space Administration  
\$301,780 60 months  
Johnson, R.  
GEM Biomedical/Bioengineering Research Initiative  
National Institutes of Health  
\$802,500 36 months

# THE GRADUATE SCHOOL OFFICE OF RESEARCH

## Proposals Submitted

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

### PROPOSALS FOR RESEARCH

#### Aerospace and Mechanical Engineering

Skaar, S.  
Robotic Technology Development  
Pratt/Whitney  
\$19,357 11 months

Renaud, J.  
National Science Foundation Young Investigator  
National Science Foundation  
\$64,886 48 months

#### Art, Art History and Design

Pyne, K.  
Women Artists and Modernism in Manhattan,  
1900-1930  
National Endowment for the Humanities  
\$30,000 12 months

#### Biological Sciences

O'Tousa, J., Zimmerman, M.  
Characterization of the Invertebrate Rhodopsin Kinase  
National Institutes of Health  
\$20,700 12 months

Bridgham, S., Kellogg, L.  
Save the Dunes Proposal  
Save the Dunes Council  
\$1,000 12 months

Adams, J.  
Malaria Reagent Program  
National Institutes of Health  
\$149,062 12 months

Molecular Analysis of Apical Organelles of Plasmodium  
National Institutes of Health  
\$113,285 12 months

Bender, H.  
Human Genetics Program-Regional Genetics Center  
Indiana State Department of Health  
\$98,127 12 months

O'Tousa, J.  
Genetic Analysis of Retinal Degeneration  
National Institutes of Health  
\$200,174 12 months

#### Civil Engineering and Geological Sciences

Fein, J.  
Radionuclide-Bacteria-Organic-Mineral Interactions  
Department of Energy  
\$586,675 36 months

Experimental Determination of Metal Contaminant  
Mobility  
Lawrence Livermore National Laboratory  
\$416,966 36 months

Spencer, B.  
Supplement to NSF Grant #CMS 95-28083  
National Science Foundation  
\$12,807 12 months

#### Chemical Engineering

Miller, A.  
Superconducting Quantum Structures  
Purdue University  
\$51,229 12 months

#### Chemistry and Biochemistry

Lieberman, M.  
Formation and Replication of Nanoparticles  
Research Corp.  
\$51,100 12 months

Crosslinking Reactions Applied to Layered Materials  
National Science Foundation  
\$40,000 12 months

Castellino, F.  
Structure-Function Studies on Plasminogen and  
Plasmin  
National Institutes of Health  
\$402,816 12 months

Wiest, O.  
New Building Blocks for Molecular Computing  
Research Corp.  
\$35,000 24 months

#### Electrical Engineering

Bernstein, G.  
Circuit Fabrication and Testing  
Department of the Navy  
\$1,182,896 24 months

Snider, G., Lent, C., et al.  
Quantum-Dot Cellular Automata  
National Science Foundation  
\$1,660,179 36 months

Collins, O.  
Code Capacity and Code Design  
National Science Foundation  
\$258,220 36 months

# THE GRADUATE SCHOOL OFFICE OF RESEARCH

## English

Ziarek, E.  
Feminist Interrogations of Postmodern Ethics  
National Endowment for the Humanities  
\$30,000 9 months

## Romance Languages and Literatures

Boulton, M.  
Pious Fictions: Apocryphal Gospels in Medieval French Literature  
National Endowment for the Humanities  
\$30,000 12 months

## Philosophy

Kremer, M.  
The Kantian Roots of Frege's Philosophical Semantics  
National Endowment for the Humanities  
\$30,000 12 months

## Physics

Blackstead, H.  
Microwave and Optical Studies of HTSC  
Purdue University  
\$125,000 12 months

Berry, H.  
Multipole Moments of Nuclei  
Research Corp.  
\$39,000 18 months

LoSecco, J.  
Research Opportunity Award  
Research Corp.  
\$28,600 12 months

Kolata, J.  
R.O.A. Supplement  
National Science Foundation  
\$12,444 2 months  
Academic Year Undergraduate Research  
National Science Foundation  
\$10,000 12 months

Ruggiero, S.  
Transport Properties of YBCO Thin Films  
Purdue University  
\$77,684 12 months

Bennett, D.  
Search for Extra-Solar Planets via Gravitational Microlensing  
Research Corp.  
\$34,968 12 months

Glazier, J.  
National Young Investigator Award and REU Supplement  
National Science Foundation  
\$35,622 12 months

## Psychology

Turner, J.  
Avoidance Beliefs and Behaviors in Mathematics  
Spencer Foundation  
\$362,631 48 months

Dakin, S., Reno, R.  
The Role of Norms in Prosocial Behavior and Recycling  
Social Psychology Study of Social Issues  
\$900 12 months

## Radiation Laboratory

La Verne, J.  
Hazardous Gas Production in Transuranic Waste Matrices  
Department of Energy  
\$737,132 36 months

## PROPOSALS FOR OTHER PROGRAMS

## Alliance for Catholic Education

Sheehan, L.  
ACE Program  
Corporation for National Service  
\$161,075 12 months  
ACE Program  
Helen Brach Foundation  
\$25,000 12 months

## GEM Program

Johnson, R.  
GEM Biomedical/Bioengineering Research Initiative  
National Institutes of Health  
\$802,500 36 months  
Johnson, R., Fortenberry, N.  
Doctoral Bridge Project  
National Aeronautics and Space Administration  
\$301,780 60 months

# THE GRADUATE SCHOOL OFFICE OF RESEARCH

## Awards Received and Proposals Submitted

In the period May 1, 1997, through May 31, 1997

### AWARDS RECEIVED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	4	318,868	14	974,451	18	1,293,319
Facilities and Equipment	0	0	1	87,995	1	87,995
Instructional Programs	0	0	0	0	0	0
Service Programs	0	0	4	14,105	4	14,105
Other Programs	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total	4	318,868	19	1,076,551	23	1,395,419

### PROPOSALS SUBMITTED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	8	980,861	23	2,619,809	31	3,600,670
Facilities and Equipment	0	0	0	0	0	0
Instructional Programs	1	197,535	1	64,000	2	261,535
Service Programs	0	0	0	0	0	0
Other Programs	<u>0</u>	<u>0</u>	<u>1</u>	<u>16,500</u>	<u>1</u>	<u>16,500</u>
Total	9	1,178,396	25	2,700,309	34	3,878,705

# THE GRADUATE SCHOOL OFFICE OF RESEARCH

## Awards Received

In the period May 1, 1997, through May 31, 1997

### AWARDS FOR RESEARCH

#### Aerospace and Mechanical Engineering

Renaud, J.  
Prototype Parts for Roof Lifter  
Jayco, Inc.  
\$200 12 months

Batill, S.  
Visiting Scholar Support  
Japan Patent Office  
\$12,000 12 months

Thomas, F., Nelson, R.  
A High Lift Flow Physics Experiment  
National Aeronautics and Space Administration  
\$60,000 12 months

#### Biological Sciences

Feder, J.  
REU Supplement to CAREER Grant  
National Science Foundation  
\$5,000 36 months

Lamberti, G.  
Effect of Stormwater Filters on Stream Temperature  
SJADB  
\$17,995 4 months

Lodge, D.  
REU Supplement: Herbivory on Macrophytes  
National Science Foundation  
\$5,000 36 months

#### Office of Information Technologies

Rapagnani, N.  
A High Performance Connection to the Internet and  
vBNS  
National Science Foundation  
\$175,000 12 months

#### Civil Engineering and Geological Sciences

Fein, J.  
Bacterial Effects During Biogenesis  
American Chemical Society  
\$50,000 24 months

#### Chemical Engineering

McCreedy, M., Chang, H., et al.  
Fundamental Processes of Atomization  
National Aeronautics and Space Administration  
\$98,000 48 months

Maginn, E.  
Molecular Simulation: Additive Perform in Boundary  
Lubrication  
Alcoa Foundation  
\$10,000 12 months

#### Chemistry and Biochemistry

Sevov, S.  
Synthesis, Structure and Properties of Metal  
Borophosphates  
National Science Foundation  
\$109,500 12 months

Miller, M.  
Consulting Program for 1997  
Eli Lilly Company  
\$20,000 12 months

Wiest, O.  
Electron Transfer Induced Reactions of Strained  
Systems  
Volkswagen-Stiftung  
\$88,506 36 months

Scheidt, W.  
X-ray and Chemical Studies of Metalloporphyrins  
National Institutes of Health  
\$288,868 12 months

#### Computer Science and Engineering

Hu, X.  
Performance Analysis and Tradeoff for Design  
Exploration  
National Science Foundation  
\$110,000 24 months

#### Electrical Engineering

Merz, J., Snider, G.  
Properties of Self-Assembling Quantum Dots in  
InGaAs/GaAs  
University of California, Santa Barbara  
\$62,250 36 months

# THE GRADUATE SCHOOL OFFICE OF RESEARCH

## Physics

Barabasi, A.  
Driven Interfaces in Random Media  
National Science Foundation  
\$106,000 24 months

Schiffer, P.  
Novel Low Temperature Behavior in Materials  
National Science Foundation  
\$75,000 12 months

## AWARDS FOR FACILITIES AND EQUIPMENT

## Physics

Schiffer, P., Furdyna, J., et al.  
Acquisition of a SQUID Magnetometer  
National Science Foundation  
\$87,995 12 months

## AWARDS FOR SERVICE PROGRAMS

### Center for Continuing Formation in Ministry

Lauer, E.  
Center for Continuing Formation in Ministry  
Various Others  
\$9,830 1 month

### Center for Pastoral Liturgy

Bernstein, E.  
Center for Pastoral Liturgy  
Various Others  
\$1,831 1 month  
Center for Pastoral Liturgy  
Various Others  
\$2,433 1 month

### Institute for Church Life

Cannon, K.  
Institute for Church Life  
Various Others  
\$11 1 month

## Proposals Submitted

In the period May 1, 1997, through May 31, 1997

## PROPOSALS FOR RESEARCH

### Aerospace and Mechanical Engineering

Batill, S.  
Multidisciplinary Design Application to Automotive Systems  
Honda Initiative Grant Program  
\$25,000 12 months  
Jumper, E., Atassi, H.  
Stage-to-Stage Interactions  
Carnegie Mellon University  
\$264,903 36 months

### Anthropology

Cunningham, M.  
Rockefeller Foundation Fellowship, University of Toronto  
University of Toronto  
\$35,000 8 months

### Art, Art History and Design

Haywood, R.  
Interventions: Art, Happenings, and Cultural Politics  
National Endowment for the Humanities  
\$30,000 12 months

### Biological Sciences

Grimstad, P.  
St. Joseph Co. (Indiana) Mosquito Surveillance Project  
St. Joseph County Health Department  
\$30,000 8 months  
Severson, D.  
AI-33127-06 Supplement  
National Institutes of Health  
\$144,472 12 months  
Hyde, D.  
Molecular Analysis of Phototransduction  
National Institutes of Health  
\$254,098 12 months  
Müller, I.  
Analysis of T Cells in Secondary Leishmania Infection  
National Institutes of Health  
\$99,770 12 months  
Lodge, D.  
Exotic Species  
National Research Council  
\$15,000 28 months

# THE GRADUATE SCHOOL OFFICE OF RESEARCH

Lodge, D., Feder, J.  
Crayfish as a Model Exotic Species  
Purdue University  
\$88,835 24 months

## Civil Engineering and Geological Sciences

Silliman, S.  
Estimating Transmissivity Parameters  
National Science Foundation  
\$389,887 36 months

Neal, C.  
Interaction between South American and Caribbean  
Plates  
National Science Foundation  
\$101,112 24 months

Johnson, P.  
Investigating Chemical Mechanisms of Fines  
Mobilization  
American Chemical Society  
\$20,000 27 months

Pyrak-Nolte, L.  
NSF - Young Investigator  
National Science Foundation  
\$65,789 12 months

Fein, J., Kulpa, C.  
Quantifying Bacteria-Water-Rock Interactions  
National Science Foundation  
\$279,257 36 months

## Chemical Engineering

McGinn, P.  
Buffer Layers for Superconductor Tapes  
Purdue University  
\$10,000 12 months

## Chemistry and Biochemistry

Rosen, E., Castellino, F.  
Coagulation Initiation in FVII Deficient Mice  
National Institutes of Health  
\$234,903 36 months

Helquist, P.  
Chemical and Biological Studies of New Cytotoxic  
Agents  
National Institutes of Health  
\$248,947 12 months

## Computer Science and Engineering

Sha, H., Hu, X.  
Design Aids for Real-Time Adaptive Fuzzy Systems  
Honda Initiative Grant Program  
\$24,992 12 months

Kogge, P., Brockman, J., et al.  
Scalable Spaceborne Computing Using PIM Technology  
Jet Propulsion Laboratory  
\$150,000 6 months

## Electrical Engineering

Antsaklis, P.  
Travel Funds for Hybrid Systems V (HS97)  
National Science Foundation  
\$10,000 12 months

## German and Russian Languages and Literatures

Marullo, T.  
"Hoping Against Hope: Ivan Bunin (1920-1953)"  
National Endowment for the Humanities  
\$30,000 12 months

## Physics

Tanner, C.  
Precision Measurements of Atomic Lifetimes  
Department of Energy  
\$140,000 12 months

Schiffer, P.  
Experimental Studies of Wet Granular Media  
American Chemical Society  
\$20,000 12 months

Berry, H.  
Studies of Octupole Moments  
National Research Council  
\$14,440 24 months

## Psychology

Borkowski, J., Whitman, T., et al.  
Precursors of Retardation in Children with Teen  
Mothers  
National Institutes of Health  
\$231,204 12 months

Bergeman, C.  
Longitudinal Family Study of Optimal Aging  
National Institutes of Health  
\$203,449 12 months

Methodological Issues in Gerontological Research  
National Institutes of Health  
\$83,378 60 months



# THE GRADUATE SCHOOL OFFICE OF RESEARCH

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Cummings, E.

Marital Conflict Resolution and Child Development  
National Institutes of Health

\$237,630 12 months

Radvansky, L.

Interpreting Spatial Relations  
National Institutes of Health

\$92,380 12 months

## Radiation Laboratory

La Verne, J.

Ion Beam Radiation Chemistry  
National Science Foundation

\$26,224 24 months

## PROPOSALS FOR INSTRUCTIONAL PROGRAMS

### Aerospace and Mechanical Engineering

Batill, S.

Engineering Faculty Development Workshop  
National Science Foundation

\$64,000 24 months

## O.S.I.P.A.

Borelli, M.

CANDAX MCNAIR  
Department of Education

\$197,535 12 months

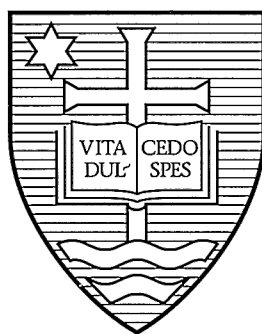
## PROPOSALS FOR OTHER PROGRAMS

### College of Engineering

Michel, A.

Student Travel Program  
National Science Foundation

\$16,500 6 months



# NOTRE DAME REPORT

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