

# Notre Dame Report

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## Faculty Notes

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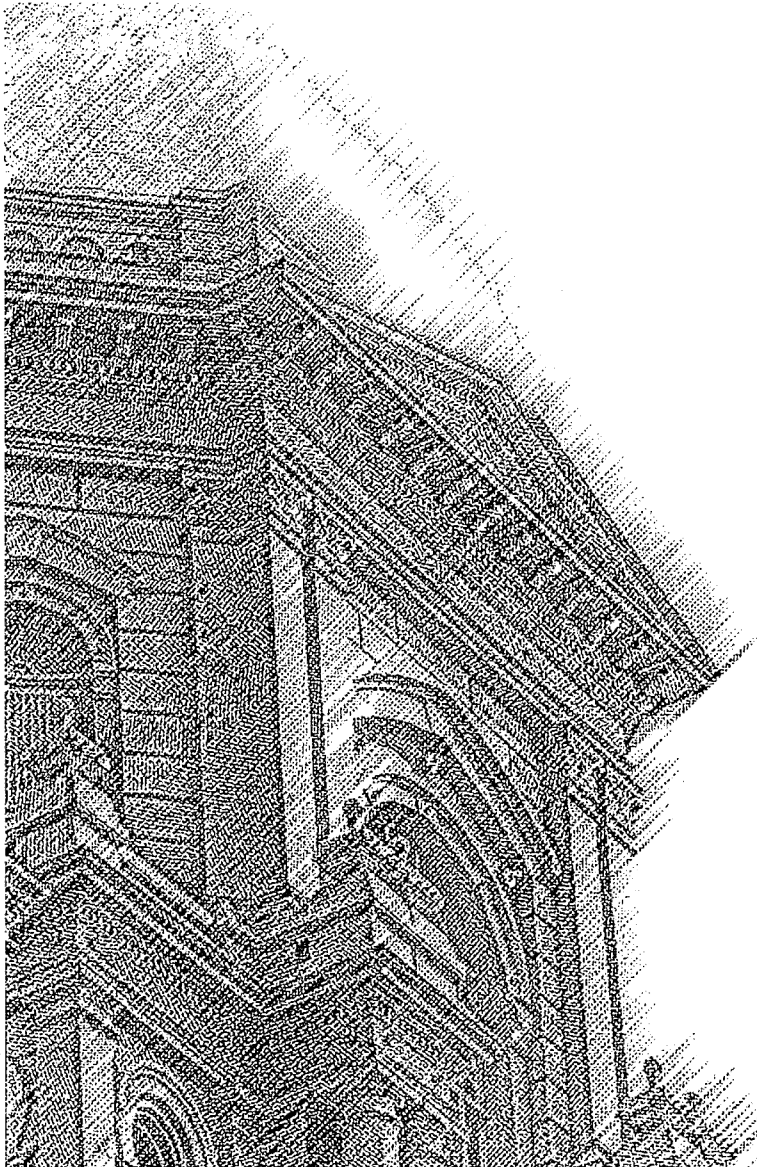
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DECEMBER 12, 1997

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NUMBER 8

# Faculty Notes

## Honors

**Jorge A. Bustamante**, Conley professor of sociology, has been designated a member of the United Nations' special task force on international migrations and human rights by the United Nations member countries of Latin America and the Caribbean.

**Oliver M. Collins**, associate professor of electrical engineering, received the 1998 Judith A. Resnik Award from the Institute of Electrical and Electronic Engineers for his work which was instrumental in allowing the Galileo probe of Jupiter to transmit information without needed telecommunications upgrades and his concepts which helped the Jet Propulsion Laboratory complete a decoding machine in 1990.

**Edward J. Conlon**, professor of management, **Khalil Matta**, professor of management, and **Sarvanan Devaraj**, instructor in management, received the Best Application Paper award for their paper "Is Quality Perception a Self-fulfilling Prophecy?: The Case of the Automotive Industry" during the Decision Sciences Institute annual meeting, Nov. 25.

**Gregory Dowd**, associate professor of history, was appointed to the Collaborative Research Committee for Early American History in the Division of Research and Education Programs of the National Endowment for the Humanities.

**Gerald J. Iafrate**, professor of electrical engineering, was appointed to the Physics Planning Committee of the American Physical Society for the years 1998 to 2000.

**LeRoy Krajewski**, Daley professor of manufacturing strategy, Department of Management, and **Jerry Che-Yung Wei**, associate professor of management, won the Best Theory/Empirical Research Paper award for their paper "The Effective Use of Supply-Chain Flexibility" during the Decision Sciences Institute annual meeting, Nov. 25.

**Rev. Richard A. McCormick, S.J.**, O'Brien professor emeritus of Christian ethics, received the first annual Kino Award on the 25th anniversary of the Kino Institute in Phoenix, Ariz., Nov. 6.

**Guillermo O'Donnell**, Kellogg professor of government and international studies, was awarded an honorary doctorate by the National University of Mar del Plata on the occasion of the Argentine Congress of Political Science, Nov. 7.

## Activities

**Jeffrey H. Bergstrand**, associate professor of finance and business economics and fellow in the Kroc Institute, presented the paper "International Trade in Goods and Services and Regional Free Trade Agreements" co-authored with **Scott L. Baier**, assistant professor of finance and business economics, at the Midwest International Economics Group meeting at Indiana University in Bloomington, Ind., Oct. 25. Bergstrand presented "The Growth of World Trade: Tariffs, Technology and Intermediate Goods" co-authored with Baier at a joint workshop of the Department of Economics and the Department of Business Economics at Indiana University in Bloomington, Ind., Nov. 7.

**Neal M. Cason**, professor of physics, presented a colloquium titled "Evidence for Production of an Exotic Meson" at Yale University in New Haven, Conn., Oct. 31.

**Naomi R. Cassirer**, assistant professor of sociology, spoke on "Nonstandard Work Arrangements and Families" at a Capitol Hill briefing on nonstandard work arrangements sponsored by the Women's Research and Education Institute and the Economic Policy Institute in Washington, D.C., Oct. 28.

**Patricia M.Y. Chang**, assistant professor of sociology, presented the paper "The Role of Institutional Environment in Denominational Policy Making: Report from a Comparative Case Study" on the panel Power and Conflict in Religious Organizations and served as an invited critic on the panel Author Meets Critics: Money Matters: Personal Giving in American Churches by Dean Hoge, Charles Zech, Patrick McNamara and Michael J. Donohue, at the annual meetings for the Scientific Study of Religion in San Diego, Calif., Nov. 7-9.

**Xavier Creary**, Huisling professor of chemistry and biochemistry, presented a lecture titled "Advances in the Chemistry of  $\alpha$ -Carbonyl,  $\alpha$ -Thiocarbonyl, and  $\alpha$ -Oximino Carbocations" at the symposium on Moving Toward the Second Century of Carbocation Chemistry at the fifth Chemical Congress of North America in Cancún, Mexico, Nov. 14.

**Michael J. Crowe**, professor in the Program of Liberal Studies, presented the paper "Investigating the Ways of Nature: An In-Class Experiment" at the annual meeting of the History of Science Society in San Diego, Calif., Nov. 6-9.

**Lawrence S. Cunningham**, professor of theology, presented four conferences titled "Thomas Merton, Spiritual Master" at the Santa Sabina Retreat Center in San Rafael, Calif., Nov. 15-17.

**Gregory Dowd**, associate professor of history, chaired the Committee for West, Central and Southern Africa in the Council for the International Exchange of Scholars, which administers the Fulbright Senior Scholars Teaching/Research Program.

**Elizabeth D. Eldon**, assistant professor of biological sciences, gave the research talk "The Immune Response in Insects" to the biology department of the University of Nevada in Las Vegas, Nev., Oct. 23-25.

**Harald E. Esch**, professor of biological sciences, gave the seminar "Navigation in Bees: Cognitive Maps or Dead Reckoning?" at the Department of Zoology at INRA in Avignon, France, Oct. 27. He gave the seminar "How Bees Find Feeding Sites: Energy Expenditure or Optic Flow" at the Department of Entomology at the University of Illinois in Urbana, Ill., Nov. 10.

**Robert Florence**, visiting assistant professor of business economics, presented the invited paper "An Analysis of PAC Contributions and Legislator Quality" at the International Atlantic Economic Society meetings in Philadelphia, Pa., Oct. 9-11.

**Malcolm J. Fraser Jr.**, associate professor of biological sciences, presented the seminar "TTAA Specific Transposable Elements of Lepidoptera: Characterization and Mobilization in Insect Cells and Embryos" at the Department of Entomology at Ohio State University in Columbus, Ohio, Oct. 27-28.

**John H. Garvey**, professor of law, gave the lecture "What Are Freedoms For?" at the South Texas Law School in Houston, Tex., Sept. He lectured on religious liberty at the invitation of the Poynter Center for the Study of Ethics and American Institutions at Indiana University in Bloomington, Ind., Oct. He gave the faculty colloquium "Constraints on Freedom" at the Indiana University Law School in Bloomington, Ind., Oct. He was a featured author at the Kentucky Book Fair in Frankfort, Ky., Nov. 22.

**David Hartvigsen**, associate professor of management, presented "Compact Representations of Cuts" at the INFORM Conference in San Diego, Calif., May. He gave the talk "Compact Representation of Cuts" at the 16th Mathematical Programming Symposium in Lausanne, Switzerland, Aug. He presented "Multi-terminal Cut Problems" at the Combinatorial Optimization Seminar at the University of Waterloo in Waterloo, Canada, Nov.

**Bei Hu**, associate professor of mathematics, gave the invited Colloquium talk "Homogenization of Free Boundary — Chemical Vapor Deposition in the Semiconductor Device Manufacturing" and the PDE seminar talk "Regularity of Biharmonic Functions in a Singular Domain" at the Department of Mathematics at the University of Iowa in Iowa City, Iowa, Nov. 11-12.

**David R. Hyde**, associate professor of biological sciences, gave the invited talk "Cloning and Molecular Characterization of the Zebrafish UV Opsin" at the fifth Indo-Pacific Fish Conference in Noumea, New Caledonia, Oct. 31-Nov. 9. He gave an invited seminar titled "Insights on a Novel Membrane-anchored Phospholipid Transfer Protein in Retinal Degeneration" to the Division of Nephrology at the Indiana School of Medicine in Indianapolis, Ind., Nov. 17.

**Maxwell Johnson**, associate professor of theology, presented the two-day workshop "The Liturgies of the Paschal Triduum" at the Western North Dakota Synod, ELCA, Fall Theological Conference, at Assumption Abbey in Richardton, N.D., Nov. 2-4.

**Donald P. Kommers**, Robbie professor of government and international studies and professor of law, read a paper dealing with the constitutional problems in public finance under the German and Polish constitutions at the fifth annual conference on the Individual and the State sponsored by the Central European University in Budapest, Hungary, June 19. He delivered the concluding address "What We Americans Can Learn from Constitutional Developments in Eastern and Western Europe" at an international colloquium on Comparative Constitutionalism, 1945-1995: Rights and National Identity sponsored by the College of Humanities and Merston Center at Ohio State University held in Columbus, Ohio, Oct. 9-11. He discussed his research on comparative constitutionalism in the public address "The Function of Judicial Review and the Role of Constitutional Courts in Europe" at Emory University in Atlanta, Ga., Oct. 16.

**Charles Kulpa**, professor of biological sciences, presented the invited seminar "The Use of Microbial Processes for Solving Environmental Problems: Biodegradation and Biotransformation of Hazardous Compounds" at Ball State University in Muncie, Ind.

**Louise Litzinger**, assistant dean and associate professional specialist in the First Year of Studies, presented the showcase "The First Year: Quality Academic Advising and Critical Academic Support" at the third national conference on Students in Transition sponsored by the National Resource Center for the Freshman Year Experience and Students in Transition in Oak Brook, Ill., Nov. 5.

**Mary Ann Mahony**, assistant professor of history, presented "From Sugar to Cacao: Pre-existing and Emergent Fields of Power in Bahia" at the fourth meeting of the Brazilian Studies Association in Washington, D.C., Nov. 12-16.

**Rev. Richard P. McBrien**, Crowley-O'Brien-Walter professor of theology, presented "The Present and Future Church: Challenges and Prospects" at the fifth annual John XXIII Lecture at the Fellowship of Southern Illinois Laity at Kaskaskia College in Centralia, Ill., Nov. 7. He gave the radio interview on the "Osgood File" with Charles Osgood on "The recent Vatican symposium on 'The Roots of Anti-Judaism in the Christian Milieu,'" Nov. 24.

**Rev. Richard A. McCormick, S.J.**, O'Brien professor emeritus of Christian ethics, received an honorary degree and delivered the chancellor's lecture "Vive la Différence! Killing and Allowing to Die" at Regis College in Toronto, Canada, Nov. 22.

**Thomas V. Merluzzi**, associate professor of psychology, presented the colloquium "Self-Efficacy and Coping with Cancer" to the Health Services and Policy Research Division of Eli Lilly and Company in Indianapolis, Ind., Oct. 30.

**James L. Merz**, vice president for graduate studies and research and professor of electrical engineering, gave the invited lecture "Low Dimensional Quantum Structures Made by Man and by God" as the distinguished lecturer for the IEEE Electron Device Society to the North Jersey section of the IEEE: EDS, C&S, MTT AND AP-S chapters in conjunction with the New Jersey Institute of Technology in Newark, N.J., Nov. 13.

**Joseph E. O'Tousa**, associate professor of biological sciences, presented the seminar "Mechanisms of Degeneration in Dominant Rhodopsin Mutants" at the Department of Ophthalmology and Visual Sciences at the University of Illinois in Chicago, Ill., Nov. 18-19.

**Catherine Perry**, assistant professor of Romance languages and literatures, delivered the paper "De l'Ironie Discrète au Rire 'Insensé' Chez Anna de Noailles" at the Rocky Mountain MLA in Denver, Colo., Oct. 16-18.

**Teresa Godwin Phelps**, professor of law, was on the faculty for the First Appellate Practice Skills Institute for the Indiana Continuing Legal Education Forum in Indianapolis, Ind., Nov. 14.

**Dean A. Porter**, director of the Snite Museum of Art and concurrent professor of art, art history and design, moderated the panel on Competing Perspectives: Culture and Authenticity at the New Mexico Art History Conference in Taos, N.Mex., Oct. 23.

**Jean Porter**, professor of theology, gave the lecture "What the Wise Person Knows: Virtue and Natural Law in Aquinas' *Summa theologiae*" at the conference on the ethics of Thomas Aquinas and its contemporary significance at Northwestern University in Evanston, Ill., Nov. 8.

**Karen Richman**, visiting assistant professor of anthropology, presented the paper "The Gender of Migrant Money" to the Panel on Engendering Transnationalism at the 96th annual meeting of the American Anthropological Association in Washington, D.C., Nov. 21.

**Joachim Rosenthal**, associate professor of mathematics, presented the invited colloquium talk "Pole Placement Problems, Inverse Eigenvalue Problems and Some Relations to the Quantum Ring of the Grassmannian" in the Department of Mathematics at the University of Toronto in Toronto, Canada, Oct. 22.

**Daniel J. Saracino**, assistant provost for enrollment, gave a seminar on enrollment management to a group of college presidents from Japanese private universities in San Francisco, Calif., Oct. 14.

**Peter Schiffer**, assistant professor of physics, gave the condensed matter seminar "Geometrically Frustration in Magnets: Common Behavior and Unique Ground States" to the Department of Physics at Northwestern University in Evanston, Ill., Oct. 23.

**Mark A. Schneegurt**, research assistant professor of biological sciences, gave the talk "Application of Traditional and Molecular Techniques in Microbial Ecology" at the Environmental Science and Engineering Symposium at Indiana University-Purdue University in Indianapolis, Ind., Sept. 25-26.

**David Severson**, associate professor of biological sciences, presented the invited seminar "Quantitative and Population Genetics of Mosquitoes" in the Department of Entomology at the University of Illinois in Urbana-Champaign, Ill., Sept. 22-23. He gave the talk "Structure and Gene Flow Among Natural Populations" in a symposium at the second international congress of Vector Ecology in Orlando, Fla., Oct. 18-24.

**Dominic O. Vachon**, concurrent assistant professor of psychology, gave the research poster presentation "Helping Beliefs and Dispositional Empathy's Influence on Resident Assistant Burnout" at the 105th annual convention of the American Psychological Association in Chicago, Ill., Aug. 18. He gave the workshop "Applying to an APA-Approved Pre-doctoral Internship in Counseling and Clinical Psychology" for the doctoral students in the Department of Counseling Psychology at Loyola University Chicago in Mallinckrodt, Ill., Sept. 26. He gave the workshop "Caring: An Oversentimentalized Concept in Clinical Practice?" for mental health professionals at Nasr Psychiatric Services in Michigan City, Ind., Sept. 27.

**Arvind Varma**, Schmitt professor of chemical engineering, chaired the session "Fundamentals of SHS," presented the invited talk "Combustion Wave Microstructure in Heterogeneous Reaction Systems: Experiments and Theory" and co-authored the paper "The Effects of Gravity on Combustion and Structure Formation in Heterogeneous Systems" with Alexander Mukasyan, at the international symposium on Self-Propagating High-Temperature Synthesis in Toledo, Spain, Oct. 6-9. He gave the invited talk "Optimal Distribution of Catalyst in Pellets, Membranes and Reactors" at the Institute of Catalysis in Madrid, Spain, Oct. 10.

**Olaf Wiest**, assistant professor of chemistry and biochemistry, gave the invited lecture "Pericyclic Reactions of Radical Ions" at Ohio State University in Columbus, Ohio, Nov. 7.

**Erhard Winkler**, professor emeritus of civil engineering and geological sciences, gave the invited lecture "Urban Stone Decay" at Restoration and Renovation, Merchandise Mart, in Chicago, Ill., Oct. 16-18.

**Hong-Ming Yin**, assistant professor of mathematics, presented the talk "Campanato Type of Estimate for Parabolic Equations and Applications" at the Mathematical Science Research Institute at the University of California in Berkeley, Calif., Nov. 12.

## Publications

**Scott L. Baier**, assistant professor of finance and business economics, and **Jeffrey H. Bergstrand**, associate professor of finance and business economics and fellow in the Kroc Institute, wrote "International Trade, Regional Free Trade Agreements, and Economic Development" published in *Review of Development Economics*, vol. 1, no. 2, 1997, pages 153-170.

**Albert-László Barabási**, assistant professor of physics, co-authored "Ion-induced Effective Surface Diffusion in Ion Sputtering" with Maxim A. Makeev, published in *Applied Physics Letters*, vol. 71, no. 19, Nov. 1997, pages 2800-2802. Barabási co-authored "Dislocation-Free Island Formation in Heteroepitaxial Growth: A Study at Equilibrium" with István Daruka, published in *Physical Review Letters*, vol. 79, no. 19, Nov. 1997, pages 3708-3711.

**Paul Bradshaw**, professor of theology, edited *Coronations Past, Present, and Future. Alcuin/GROW Liturgical Study 38*, Nottingham: Grove Books, 1997. He edited *Essays on Early Eastern Eucharistic Prayers*, Collegeville: Liturgical Press, 1997.

**Naomi R. Cassirer**, assistant professor of sociology, co-authored *Nonstandard Work, Substandard Jobs: Flexible Work Arrangements in the United States* with Arne L. Kalleberg, Edith Rasell, Barbara F. Reskin, Ken Hudson, David Webster, Eileen Appelbaum and Roberta M. Spalter-Roth, Economic Policy Institute, 1997, 90 pages. She co-authored *Managing Work and Family: Nonstandard Work Arrangements among Managers and Professionals* with Roberta M. Spalter-Roth, Arne L. Kalleberg, Edith Rasell, Barbara F. Reskin, Ken Hudson, David Webster, Eileen Appelbaum and Betty L. Dooley, Economic Policy Institute, 1997, 70 pages.

**Francis J. Castellino**, Kleiderer-Pezold professor of chemistry and biochemistry, and **Roger K. Bretthauer**, professor of chemistry and biochemistry, co-authored "Characterization of the Acidic Oligosaccharides Assembled on the *Pichia pastoris*-expressed Recombinant Kringle 2 Domain of Human Tissue-type Plasminogen Activator" with Robert G. Miele, published in *Biotechnology and Applied Biochemistry*, vol. 26, 1997, pages 79-83. Castellino co-authored "The NMR Solution of the NMDA Receptor Antagonist, Conantokin-T, in the Absence of Divalent Metal Ions" with Scott E. Warder, Zhigang Chen, Yi Zhu, Mary Prorok and Feng Ni, published in *Federation of European Biochemical Societies Letters*, vol. 411, 1997, pages 19-26.

**Lawrence S. Cunningham**, professor of theology, wrote "Praying the Psalms" published in *America*, vol. 177, no. 3, Aug. 9, 1997, pages 7-11. He wrote "Thomas Merton" published in *Makers of Christian Theology*, edited by M. Toulouse and J. Duke, Nashville, Tenn.: Abingdon, 1997, pages 504-511. He wrote "On Asceticism: A Review Essay" published in *Cistercian Studies Review*, vol. 32, no. 4, 1997, pages 545-550. He co-authored *Culture and Values: A Survey of the Western Humanities*, fourth edition, with John Reich, Ft. Worth, Tex.: Harcourt Brace, 1997, vol. I: 456 pages, vol. II: 514 pages, alternate vol.: 569 pages. He wrote "In Brief" published in *Commonweal*, vol. 124, no. 17, Nov. 7, 1997, pages 41-43. He wrote "Religion Booknotes" published in *Commonweal*, vol. 124, no. 20, Nov. 21, 1997, pages 26-28.

**Thomas P. Fehlner**, co-authored "Origins of Unsaturation in Group 6 Metallaboranes. Synthesis, Crystal Structure, and Molecular Orbital Calculations for (Cp\*MoCl)<sub>2</sub>B<sub>3</sub>H<sub>7</sub> (Cp\* = Pentamethylcyclopentadienyl)" with Simon Aldridge and Maoyu Shang, published in *Journal of the American Chemical Society*, vol. 119, 1997, pages 11120-11121.

**John H. Garvey**, professor of law, wrote "What's Next After Separationism?" published in *Emory Law Journal*, vol. 46, winter 1997, pages 75-83.

**Denis A. Goulet**, O'Neill professor in education for justice, Department of Economics, wrote "Development Ethics: A New Discipline" published in *International Journal of Social Economics*, vol. 24, no. 11, 1997, pages 1160-1171.

**Alan Gunn**, Matthews professor of law, wrote "Basis and the Bad-Debt Deduction" published in *Tax Notes*, vol. 77, no. 3, Oct. 20, 1997, pages 337-347. He co-authored *1997 Supplement to Cases, Texts and Problems on Federal Income Taxations*, third edition, with Larry D. Ward, St. Paul, Minn.: West Publishing Co., 1997, xiii + 57 pages.

**Gregory V. Hartland**, assistant professor of chemistry and biochemistry, co-authored "Ultrafast Study of Interfacial Electron Transfer between 9-anthracene-carboxylate and TiO<sub>2</sub> Semiconductor Particles" with Ignacio Martini and José Hodak, published in *Journal of Chemical Physics*, vol. 107, 1997, pages 8064-8072.

**Alan L. Johnson**, professor of biological sciences, co-authored "Expression of bcl-2 and nr-13 in Hen Ovarian Follicles during Development" with J.T. Bridgham, J.P. Witty and J.L. Tilly, published in *Biology and Reproduction*, vol. 57, 1997, pages 1096-1103.

**Maxwell Johnson**, associate professor of theology, wrote "The Call of the Catechist in the Catechumenal Team" published in *Welcome to Christ: A Lutheran Catechetical Guide*, Minneapolis, Minn.: Augsburg, Fortress, 1997, pages 16-31. He wrote "The Archaic Shape of the Sanctus, Institution Narrative, and Epiclesis of the Logos in the Anaphora Ascribed to Sarapion of Thmuis" published in *Essays in Early Eastern Eucharistic Prayers*, edited by Paul Bradshaw, professor of theology, Collegeville: The Liturgical Press, Pueblo, 1997, pages 73-107. Johnson wrote "Back Home to the Font: Eight Implications of a Baptismal Spirituality" published in *Worship*, vol. 71, no. 6, Nov. 1997, pages 482-504.

**Michael Kremer**, associate professor of philosophy, wrote "Marti on Descriptions in Carnap's S2" published in *Journal of Philosophical Logic*, vol. 26, 1997, pages 629-634.

**Rev. Robert A. Krieg, C.S.C.**, professor of theology, wrote *Romano Guardini: A Precursor of Vatican II*, Notre Dame, Ind.: University of Notre Dame Press, 1997, 270 pages.

**Gary A. Lamberti**, associate professor of biological sciences, co-authored "Drifting Macrophytes as a Mechanism for Zebra Mussel (*Dreissena Polymorpha*) Invasion of Lake-Outlet Streams" with Thomas G. Horvath, published in *The American Midland Naturalist*, vol. 138, no. 1, 1997, pages 29-36.

**Mary Ann Mahony**, assistant professor of history, wrote "Afro-Brazilians, Land Reform, and the Question of Social Mobility in Southern Bahia, 1880-1920" published in *Luso-Brazilian Review*, vol. 34, no. 2, winter 1997, pages 59-79.

**Peter R. Moody**, professor of government and international studies, wrote "Four Powers are Good, Six May Be Better" published in *Diplomacy*, vol. 22, no. 8, Aug. 25, 1997, pages 36-37.

**W. Robert Scheidt**, professor of chemistry and biochemistry, co-authored "An Analysis of Porphyrin Molecular Flexibility — Use of Porphyrin Diacids" with Biesong Cheng, Orde Q. Munro and Heider M. Marques, published in *Journal of the American Chemical Society*, vol. 119, 1997, pages 10732-10742.

**Mark A. Schneegurt**, research assistant professor of biological sciences, co-authored "Composition of the Carbohydrate Granules of the Cyanobacterium *Cyanothece* sp. Strain ATCC 51142" with Debra M. Sherman and Louis A. Sherman, published in *Archives of Microbiology*, vol. 167, 1997, pages 89-98. He co-authored "Growth, Physiology, and Ultrastructure of a Diazotrophic Cyanobacterium, *Cyanothece* sp. Strain ATCC 51142, in Mixotrophic and Chemoheterotrophic Cultures" with Debra M. Sherman and Louis A. Sherman, published in *Journal of Phycology*, vol. 33, 1997, pages 632-642.

**Mark R. Schurr**, assistant professor of anthropology, wrote "Using the Concept of the Learning Curve to Increase the Productivity of Geophysical Surveys" published in *Archaeological Prospection*, vol. 4, 1997, pages 69-83.

**Bradley D. Smith**, associate professor of chemistry and biochemistry, co-authored "Crown, Cryptand and Cavitand Molecules" with T.A. Munro and J.A. Riggs, published in *Macmillan Encyclopedia of Chemistry*, Vol. 1, edited by J.J. Lagowski, New York: Simon and Schuster Macmillan, 1997, pages 427-431. He co-authored "Ether Functional Group" with S.J. Gardiner, published in *Macmillan Encyclopedia of Chemistry*, Vol. 2, edited by J.J. Lagowski, New York: Simon and Schuster Macmillan, 1997, pages 595-598.

**Ronald Weber**, professor of American studies, wrote *Hired Pens: Professional Writers in America's Golden Age of Print*, Athens, Ohio: Ohio University Press, 1997, 315 pages.

**Olaf Wiest**, assistant professor of chemistry and biochemistry, co-authored "Quantum Mechanical Methods and the Interpretation and Prediction of Pericyclic Reaction Mechanisms" with Daniel C. Montiel and K.N. Houk, published in *Journal of Physical Chemistry A*, vol. 101, 1997, pages 8378-8388.

**Hong-Ming Yin**, assistant professor of mathematics, wrote "Regularity of Solutions to Maxwell's System in Quasi-stationary Electromagnetic Fields and Applications" published in *Communications in Partial Differential Equations*, vol. 22, 1997, pages 1029-1053.

# Administrators' Notes

## Honors

**Kitty Arnold**, director of career and placement services, received the J.W. Paquette Superior Leadership Award from the Midwest Association of Colleges and Employers at its annual meeting in Indianapolis, Ind., Aug.

## Activities

**Ronald A. Athey**, assistant director of food services, gave the presentation "Concessions: Profitable and Customer Oriented" to the National Association of College Auxiliary Services Conference in Boston, Mass., Oct. 24.

**Michael Langthorne**, associate director of educational media, chaired the Emerging Technologies session at the 1997 annual Consortium of College and University Media Centers conference at Regent University in Virginia Beach, Va., Oct. 24-28.

**Jeffrey Shoup**, director of residence life, presented "The Basics of Behavioral Contracts" and served as a judge for the case study competition for new professionals at the Great Lakes Association of College and University Housing Officers conference in South Bend, Ind., Nov. 17.

**Scott Siler**, manager of technical support for the Office of Information Technologies, chaired the session "Tools for Teaching and Learning" and presented the tutorial "Selection, Care and Feeding of Student Employees" with Linda Hutchison from Iowa State University at the 25th annual SIGUCCS conference in Monterey, Calif., Nov. 9-12. He was selected to serve on the program committee for SIGUCCS '98 which will be held at Indiana University in Bloomington, Ind., Oct. 25-28, 1998.

## Publications

**Alan S. Bigger**, director of building services, and **Linda B. Bigger**, assistant director of purchasing, co-authored "Avoid Getting Hauled Across the Carpet" published in *Executive Housekeeping Today*, Dec. 1997, pages 6-8. They wrote "A Quicker Picker-Up: Guide to Purchasing Vacuum Cleaners" published in *Executive Housekeeping Today*, Dec. 1997, pages 10-13.



# Documentation

## Corrections to Notre Dame Report #4

### University Committees

#### University Committee on Patents

<i>Elected Members</i>	<i>Term Expires</i>
Howard Lanser, Associate Professor of Finance and Business Economics	1999

### Faculty of the University

HAL R. CULBERTSON, *Professional Specialist in the Joan B. Kroc Institute for International Peace Studies*. B.A., Wheaton College, 1986; M.A., Univ. of Illinois Graduate College, 1990; J.D., Univ. of Illinois Law School, 1991; M.A., Univ. of Notre Dame, 1996. (1997)

JUAN M. HERAKOVIC, *Adjunct Assistant Professor of Management*. B.A., Western Michigan Univ., 1980; M.A., *ibid.*, 1983; M.S.A., Univ. of Notre Dame, 1988; Ph.D., Western Michigan Univ., 1989. (1996)

LOUISE LITZINGER, *Assistant Dean and Associate Professional Specialist in the First Year of Studies*. B.A., Ohio Dominican College, 1966; M.A., Valparaiso Univ., 1972; M.T.S., Catholic Theological Union, 1982; D.Min., Graduate Theological Foundation, 1997. (1990)

CARL F. MELA, *Assistant Professor of Marketing*. B.A., Brown Univ., 1983; M.B.A., Anderson School, Univ. of California, Los Angeles, 1987; M.Phil., Columbia Univ., 1992; Ph.D., *ibid.*, 1993. (1993)

STEPHEN R. POPELKA, *Chairperson and Professor of Aerospace Studies*. B.S., Iowa State Univ., 1970; M.S., Univ. of Southern California, 1975. (1997)

MARC VERZATT, *Adjunct Instructor in Music*. B.A., Rutgers Univ., 1970. (1997)



## President's Address to the Faculty

October 7, 1997

Provost Nathan O. Hatch:

Good afternoon, colleagues and friends. Welcome to this annual address to the faculty by the president of the University. Let us open with a prayer from Thomas a Kempis:

Grant, O Lord, to all teachers and students

to know what is worth knowing,  
to love what is worth loving,  
to praise what pleases You most,  
and to dislike whatever is evil in  
Your sight.

Grant us with true judgment

to distinguish things that differ  
and above all to search out  
and do what is well pleasing to You.

Through Christ, Our Lord, Amen.

Ladies and gentlemen of the faculty, I give you the president of the University, Father Malloy.

Rev. Edward A. Malloy, C.S.C.:

Colleagues, I propose to speak of many things but in few words. I know that will disappoint you. I'd like to begin with some reflections about a wonderful celebration which took place yesterday, when Marilou Eldred was inaugurated as president of our sister institution, Saint Mary's College. It was a moment of definition; it was a moment of pride as well, for the faculty, staff, student body and board members from the college. I had an opportunity in that setting to say a few words about the interdependency between these two institutions, from historical and traditional perspectives.

The founder of the priests and brothers of Holy Cross, Father Basil Moreau, had in his original conception of the community the image of the Holy Family: Jesus, Mary and Joseph. He saw it as imperative that the priests, brothers and sisters be together in the ministry and in organizational structure. Although this complete unity

was never achieved — there are separate congregations of priests and brothers on the one hand, and of sisters on the other — it became commonplace early in the history of our separate communities for us to work in common ministry.

So, shortly after arriving at Notre Dame, Father Sorin and his brother companions invited sisters to come to share the common life and tasks at the new foundation. He was instrumental and supportive of the foundation of Saint Mary's College. The histories of the two institutions have been interwoven, in a particularly noteworthy way, in times of crisis for one institution or the other. They have thrived and flourished together. There was a moment in the 1970s when the possibility of the integration of these two institutions was examined. Although a merger did not take place, we continue to share much in common to this day.

A recent bit of campus media foolishness, which saw two Notre Dame students criticize Saint Mary's in a letter to the *Observer*, presented an opportunity for the college to reaffirm pride in itself and its sense of both separateness and interrelationship with us. Nathan Hatch and I have had a chance to meet a couple of times with Marilou Eldred and Mary Lou Gorno, chair of their board, to talk about ways in which we can improve and increase the cooperation between the two institutions. As I mentioned yesterday, since I have an honorary degree from Saint Mary's, I represented the male grads at the convocation. As long as I don't receive a request for big money to support their campaign, I will be all right.

This also is a fitting opportunity to say a few words about our relationship to our other neighbor in education, that is, Holy Cross College. While founded much more recently, Holy Cross shares more than a common phone directory with us. Many of the students come to us as transfer students from Holy Cross College — and we all remember the movie "Rudy" which was another manifestation of the relationship. We continue — the three institutions, through our leadership, presi-

dents, boards, and relationships among faculty and students — to have a common destiny. It is in Notre Dame's best interest that these neighbor institutions flourish. I want to encourage all of us to continue to foster and participate in this healthy and good relationship, and I look to a future of mutually interactive and supportive encounters.

There are, of course, other institutions in our area, namely, Indiana University South Bend, Goshen College and Bethel College. Indiana University-South Bend has recently installed a new chancellor, and Goshen College has a relatively new president as well. There are occasions on which we get together as neighbors, but there also are statewide organizations, both public and private, in which we meet regularly. We are not in competition, interestingly enough, with any of these schools for students nor for resources. So it is a very fitting situation for us not only to be good neighbors but partners as well.

There are a number of professional educational associations in which we participate at both the national and international level. The closest thing we have to an umbrella organization is the American Council on Education. I served on their board and was chair for a year. This is the primary lobbying group on behalf of higher education when it comes to federal funding and legislation. It provides a wonderful setting to learn more about the diversity, complexity and richness of American higher education, and I continue to be active in the organization.

Notre Dame has also been active in the Association of Catholic Colleges and Universities. I serve on the board, as do other Notre Dame representatives.

The National Association of Independent Colleges and Universities helps us to make the case for what is distinctive about us and our fellow institutions as private institutions. There are occasions when we need to make a case for why we exist and why certain things are imperative for our well-being and future.

Notre Dame also is involved in the International Federation of Catholic Universities. Many of you will remember that we hosted the last worldwide assembly of I.F.C.U. on the campus to fitting and wonderful praise. I think it gave us a chance to display not only the beauty of the campus but also the quality of our faculty and the friendliness of our people. I received many favorable comments after that assembly. During fall break, a number of us will be going to Santiago, Chile, to participate in the next assembly. I.F.C.U. is an important Catholic organization which collectively argues the case for and displays the diversity of Catholic higher education around the world.

We are a member of the National Collegiate Athletic Association, an organization that people always wonder about. But if it did not exist, we would have to start it. It is the closest thing we have to a collective way of influencing the direction and the control of intercollegiate athletics.

I currently serve as chair of the Presidents' Committee of the Association of Governing Boards, which is a group trying to foster the boards of public and private institutions. And there is a real sense of crisis right now in the boards of public institutions, which have become highly politicized. Many of the debates about higher education today are directed from the boards to the administration and to the faculty and students of these institutions. We have been very fortunate at Notre Dame to have a good, large, healthy and supportive Board of Trustees. But I think the Association of Governing Boards helps us learn how to be more effective when it comes to the area of governance.

Campus Compact is yet another organization of presidents promoting service and service learning on their campuses. Notre Dame has played a very instrumental and important role in this effort, and we also participate in the statewide Campus Compact organization.

There are two organizations of presidents at the international level: the International Association of Universities and the International Association of University Presidents. I am active in both of these.

The last educational association in which I am active is the North Central Association, which conducts our accreditation process every 10 years. This is of course an area that was much debated. Who regulates the regulators? There has been a new kind of assessment that has been agreed to, of how regulating boards would themselves be regulated.

I hope that all of us in our respective areas of specialization are active in national organizations. It would be a terrible waste if faculty did not go to annual conventions, run for office and serve in elected positions in various academic organizations. Part of the reputation of an institution is driven by how its faculty and administration are visible and present in representing not only their own institution but also all of higher education. I think we collectively have a very important role to play in all these organizations.

Let me offer a few reflections about time, not a long philosophical discourse about the definition of time, which I think would elude me, but rather, first of all, a couple of thoughts about the year 2000. There is, of course, the apocalyptic aspect about the year 2000: gathering in caves and predicting the end of the world. There is something about the number, whether you define it at its beginning or at its end. So it is not surprising that more and more articles are being written about this phenomenon. Many of us have read the reports about the potential disaster in the area of computers when 2000 comes, and I know that several of our administrators have been paying close attention to this question. I am assured that we will not die as an institution when it happens or come to an abrupt stop. But it is something that we need to recognize; it is a quick reminder of at least one area of significance for the year 2000.

Pope John Paul II has written a long letter about the millennium and is very preoccupied by this particular date. He sees it as a time of jubilee, a long tradition in the Hebrew Scriptures, a time of recharging, of reconciliation and of planning for the future. Clearly it is envisaged in his writing as a time in which the various Christian denominations can try to promote unity and mutual understanding among themselves. It is also a time in which the great religions of the world can do the same. There has been conversation about a grand gathering in the Holy Land as well as in Rome in 2000. We have been encouraged on campus to offer fitting perspectives from a theological and ecclesial stance. I simply call your attention to this as something that will receive more attention in the coming weeks.

One other thing about the year 2000 is that we are scheduled to end the Generations campaign on December 31, 2000. I notice that when you become an administrator your calendar goes into multiple years. You are not sure if you are even going to be alive, let alone flourishing, at that point, but that is the way it is. So December 2000 is when we hope to have realized our goal. I want to say more about the campaign later.

Just a couple of other thoughts about time.

It is really strange, if you think about it, how the academic year is structured, in our situation, into two semesters and a summer school, with a fall break and a spring break. We are actually in regular session only about half the year. When those who participate in other forms of institutional life look at that, they wonder what we do with our time. So you have a demand for time studies especially in public boards of public institutions. What do the faculty do with all their time? They teach less, so they must be going to the Riviera or to Cancún. So it has become imperative on all of us to describe the endless demands on faculty, on administrators, and on staff within the context of a complex major university.

"Do you have enough time?" is always a great question to ask a grumpy colleague. You will get an endless answer surely. None of us has enough time. We are trying to set priorities. We have our professional lives and our private lives, our collegueship and our citizenship. As knowledge has exploded with the availability of the Internet, with the demand for travel, how can we ever get caught up?

The demands on the person to be healthy, to sustain a marriage or a family life are very difficult under these circumstances. We are busy, endlessly busy, and yet the rewards also are great. Most people would admit, in their heart of hearts, that there is nothing they would rather do. It is the way of life that we have chosen. I believe it is a vocation to be in the academic world in the variety of capacities that we exercise.

We also might think about the stages of our lives and careers. The Jesuit theologian Walter Burghardt has written a series of books, collections of his homilies. I highly recommend one of these beautiful books on the stages of spirituality through the course of one's personal development. They are a reminder that in our professional careers we do go through stages. We ought to think through how we exercise our responsibilities as faculty members, particularly tenured faculty members, through the stages of a career. Isn't it wise to think about how we handle the collective task of a department, of a college, or the library? Can we not make honest adjustments when we recognize that certain things we did before either don't interest us or that we don't have the same capacity or energy we did before because other things — new challenges — intrigue us? I think this is going on at Notre Dame as in many of our peer institutions. It is one way of incorporating a sense of time into what we do here.

Let me finish these reflections about time by suggesting that we all have a dream that perhaps we entertain periodically. It is like the endless sabbatical — no responsibilities but a lot of time to catch up, to engage in those projects that are unfinished, to take on

new areas, to learn about what our colleagues are doing. My dream scenario is to have endless time for reading, thinking and writing. Some of the things you have most enjoyed in your life you cannot do so readily or you do in bits and pieces. And yet I love what I do. So I do not want to deny that you have to give up something to gain something. Our dream scenarios are reminders that we often feel put upon, unappreciated, and in need of encouragement, recognition and gratitude from colleagues.

I would like now to offer some thoughts about affirmative action which I highlighted last year in my presentation.

I think we are making progress when it comes to the diversification of our undergraduate student body and, to a lesser extent, in the professional schools and graduate school. We are making minimal progress in recruiting African-American students. In some ways this should not surprise us: We do not have as many natural advantages as we do, for example, with Latino students. But we need to recommit ourselves so that we can in fact more closely realize the dream that many committees of the University have set before us. Clearly a lot of that depends on the availability of increased financial aid. But we also need to be more effective in recruiting and in the support structures that are present here and that establish a reputation which is communicated to prospective students. I always go to the orientation program for underrepresented students during Freshman Orientation. Parents of underrepresented students and the students themselves are there to hear presentations. Alongside, you see the various student organizations seeking new membership. It is just amazing to me to compare what it was like 10 years ago and what it is like now. There is a real proliferation of groups, a desire to make Notre Dame better by being more diverse.

The faculty improvement is glacial, "nothing to write home about." Our provost, Nathan Hatch, articulated a strategy of using targets of opportunity as one way of addressing the question

of affirmative action for categories that we have established. It has helped to some extent in some categories. But all of us know it is only when the faculty at the departmental level, with the encouragement and assistance of the deans, take this seriously and engage themselves regularly in terms of progress, that we will have anything to show for the effort. If we succeed in the greater diversification of the student body and fail in comparable ways with the faculty, staff and administration, then we will be a living contradiction to the kind of university that I hope and believe we will become.

We stand in the face of legal challenges and intense public debates, especially in public institutions, but I think that at Notre Dame we have been very clear about this matter from the start. Our heart is in the right place. We just need to show healthier signs of progress and action.

I would say the same for another goal that you have heard me articulate before, which I take very seriously — the recruitment of Catholics, committed Catholics, to the faculty and the welcome addition of Holy Cross religious as well. This is something that can only be achieved with the same kind of cooperation at the level of the departments and colleges.

I call us once again to a recommitment to affirmative action in the historical/traditional sense as it comes out of our tradition and heritage. Let's do better. Let's make sure that we are not fooling ourselves.

During the first meeting of the Library Advisory Council, we welcomed a new director, Jennifer Younger, who comes to us from Ohio State University. I am very impressed not only by her vitality and excellent ideas but also by the way that she has evaluated where we stand at Notre Dame currently and the steps that we need to take for the future. During the time that she was with us at the beginning of the academic year, we were able to dedicate 20 new library collections between the Hesburgh Library and the Law Library — an amazing improvement over where we were just several years ago.

I realize that it responds to only one of the needs of the libraries, but it is an important one, and I think we are making the case much more effectively than we ever did in the past. And also very recently the Anastos collection has come into our possession — a very rich collection of material from the Byzantine period that dovetails very nicely with our present holdings in the Medieval Institute. So there are a lot of good things happening in the libraries, and I am sure Jennifer when she comes full-time will welcome your ideas and your cooperation.

A few words about financial aid, our number one goal in the Generations campaign, as it has been in our most recent previous campaigns.

Our goal at the undergraduate level is to meet full financial need. This envisions that, from its resources internally and externally, Notre Dame can assure both that the next generation of students can attend the University and that the indebtedness associated with their education is minimized. We are not yet there, and some of our peer institutions are, but even they are having a hard time sustaining it. Only the schools with the very highest endowments or those schools who are mortgaging their future by into their operating budget by, in a sense, rebating money to families, are presently able to meet full financial need.

However, I would like to point to some signs of progress. In the 1989-90 academic year, we had from University sources \$5.4 million available for undergraduate financial aid. During this academic year, we have about \$18.7 million from University sources. The market value of our scholarship endowments has gone from \$88 million in 1988 to \$402 million this year. That is a wonderful sign of progress. Over the 10-year period we have received \$58 million in gifts for financial aid, and if you look back at our success in the last campaign, you will see that this is a great sign of progress as well. We have received \$69 million from other sources — from the NBC contract, from postseason football revenues, from licensing and from our VISA affinity card. Also from the NBC

contract, we have \$5 million for graduate fellowships; \$2 million for the Law School; and additional monies for the M.B.A. program, so that with better financial aid packages, we can be competitive in attracting the very best students to our graduate and professional programs.

The *Colloquy* states that in 10 years we hope to add 150 faculty — 50 positions funded from the operating budget and 100 from senior and junior endowed chairs. In the first three years of this plan, we already have added more than 30 new faculty positions through the operating budget. As we look at future budget-building, however, we simply are not able to sustain from the operating budget additional faculty positions in such numbers. We are therefore going to be more and more dependent on gifts for endowed chairs at both the junior and senior levels. Nathan announced to the Academic Council at one of the first meetings a wonderful gift from an anonymous benefactor of \$8 million for six endowed chairs — one for each of the colleges and the School of Architecture. We have begun focusing much of the energy of the campaign in that direction, but I simply would suggest to you if the faculty is to continue to grow in the immediate future, it is going to be primarily through endowed chairs rather than from the operating budget.

A couple of thoughts about rankings. This year (fanfare) — 19th; last year — 17th; the year before that — 18th; year before — 19th; and before that — 25th. Whether we like it or not, *U.S. News and World Report* sells a lot of copies and has a huge influence on family and student decision-making. All you have to do is interview students while they visit campuses. It is good company to keep, to be in the top 20. I have met twice with the *U.S. News* editorial board. They are constantly being lobbied and constantly adjusting standards, a little bit here and there. It would be terrible for them if there was a static rating system, where there was no change from year to year; it is really important to have movement, but not too much movement because you do not want people to go out of the cat-

egories that people think they belong in. And you also need to proliferate categories so more people feel good about themselves.

But having said that, I am happy that we are where we are. You could argue the case — remember that this is supposed to be rating the quality of undergraduate instruction — that we belong higher or lower than some of the other institutions. I believe we belong in the top 20, perhaps in the top 10. The things that we generally are lowest in are, one, "academic reputation," which I believe is driven by the reputation of the institution as a whole. Other schools have a long graduate tradition of excellence that gets incorporated into academic reputation. And the other category we come out somewhat low in is "financial resources devoted to academics," which is, in fact, a phony category if you look at the evidence. It tends to divide the overall academic resources by the number of undergraduate students and take for granted that that is what is available for academic purposes to serve undergraduates. We are not going to change that category because enough schools have a vested interest in keeping it. But we need to recognize what we are not as strong in and what we do well in. I think the rankings are important; they are important for the Law School and the M.B.A. program as well. And the 10-year rankings of graduate programs are important in their own right. The last one that came out showed we are making significant progress. But very few of our programs are considered in the top echelons in terms of graduate excellence, and that is something we need to continue to work at and evaluate.

A thought about academic advising of outstanding students. Jim McAdams, Matt Cullinan and I began to try to identify, somewhat arbitrarily, students who seemed to have high academic potential in their first year of studies, and then to get together with them periodically to offer special counsel and to provide a constant stream of information relative to competitive national awards, graduate programs, the importance of faculty/student relationships, and so on. After four or five

years, I have seen great things happening. In addition to the committees assigned formal responsibility for the Rhodes, the Marshall, the Fulbright, we need to do something for our very best students at the departmental and college level because they are often hesitant or do not think they are as good as we do. But once they get into it, we can make our mark. We have outstanding students, and they ought to be doing even better than they have done up to now. We won two Rhodes last year, but we had not won any Rhodes for years. We won no Marshalls. We need to identify students with potential, work with them, encourage them, establish a kind of collective reputation and influence that I think we have been missing hitherto.

I am very proud about the graduation rate for Notre Dame athletes. We were third highest among Division I-A for all student athletes, and number one for women student athletes in terms of academic performance. Kate Halischak, director of academic services for student athletes, and her colleagues deserve a lot of credit for that. It is one area in which I think we have seen some outstanding improvement, and I think we ought to take pride in what we have achieved there.

Now this is going to take a little while for obvious reasons: campus construction and renovation.

Bond Hall for the School of Architecture by general consensus is a jewel inside and out. You also will notice the care that has been taken for the surrounding area.

We have begun construction of the Jerry Hank Family Hall of Environmental Sciences, which is an expansion of the Galvin Life Sciences Center. When the external reviewers came to the biology department last year, they were very complimentary concerning UNDERC, our facility and program at Land O'Lakes, Wisconsin. This new facility provides a natural synergy between on- and off-campus research in aquatic biology.

Grace Hall has been renovated, and the Flanner Hall renovation is under way. These buildings are better suited for administrative offices, in my judgment, than they were for student living.

The Main Building will be empty for two years. The renovation is under way and it is in a destructive mode. Hopefully they will get to the constructive mode so we can move back in two years.

You can see, not too far from here, that the superstructure for the Eck Center, housing the new bookstore, Alumni Association offices and visitors' center is under way. A faculty committee exposed a lot of the deficiencies of our present bookstore operation and described our need to create a different kind of climate here in light of both the ascendancy of the super bookstores and the specialized needs of this academic community. The Follett Company, I think, is doing a fine job in the transition phase.

We announced at the Academic Council meeting that we have given the go-ahead for the Marie P. DeBartolo Performing Arts Complex, after these many years of waiting and hesitation. The reason we can go forward is because we now have the money assured to make it possible, not simply from the DeBartolo family but also from other benefactors. Clearly, two departments — the music department and communication and theatre — have a special concern and interest in this project. The projected facility will include a 1,200-seat auditorium. We are involved in architectural competition to determine who will do the design. The previous design, which was based on a higher dollar figure, simply is not useful anymore, and unfortunately a significant amount of money was spent for those plans. But we are going forward. I think this facility will do wonders for the state of the performing arts here at Notre Dame.

This fall, we dedicated McGlenn and Welsh Halls, the second two of the four new residence halls on the former back nine holes of the old golf course.

Those of you who have strolled around campus are aware that the campus beautification project was extended from the circle to the Main Building this summer. In the course of this project over the last two years we have planted more than 1,000 trees. Nonetheless, I had a student come to me over the summer and ask, "Why are you cutting down all the trees?" which gave me a 45-minute opportunity to explain what we really were trying to achieve. We had a lot of dead elms and other trees that were knocked down or weakened in storms, and we are trying to recreate some of the beauty of the original parts of campus that would otherwise have been lost. I know that the addition of benches and flowers is very much remarked on by the many visitors who have come here since the project was finished.

The Stadium expansion has gone well except for some leaky plumbing, and that has been attended to. The response to it in terms of its fit within the campus has been positive.

Rolfs Sports Recreation Center is nearing completion, and with the winters we have here, it will be a great addition to our recreational athletic needs.

The new golf course has received final approval from the various environmental agencies. It will be funded by a gift from the Warren Foundation. Those of you who drive on that route can see the progress from week to week.

There are two buildings that have gone up quietly. The food processing facility, which is behind the credit union and St. Michael's Laundry, is a reminder of how many people are fed here during a given year and how cramped the space to do that has been up to now. It really is a beautiful facility in terms of what they can do. Not too far away is the Hazardous Waste Treatment Facility. Don't get the wrong idea that they are somehow connected. We all wore gas masks during the dedication of this facility. But this of course is mandated by federal regulations and houses materials involved in various laboratory and other

activities here. It is a holding place before such waste is sent on to other places.

Our new building in London has been vacated by its previous occupants and its renovation is well under way. Charles Fischer, a University trustee, has provided the funding for this renovation.

The South Dining Hall expansion to serve the increased number of students on the West Quad is under way.

We dedicated the Beichner Community Center at University Village, which provides much better common space for our married students and their families.

And you may have read in the paper that Ave Maria Press, owned by the Congregation of Holy Cross-Indiana Province and now located in the building next to the power plant, will move. The power plant needs Ave's current space, so we are constructing a new building north of Douglas Road and taking over the existing space for power plant expansion.

Looking into the future, we obviously have needs, articulated in the *Colloquy*, for the Science Teaching Facility, for new faculty office space, and for college needs of various kinds that are in the process of being identified. So even though I would just as soon we would never again have to worry about any brick and mortar, it is always going to be there as part of our common life.

Let me pay a special compliment to Jeff Kantor and Larry Rapagnani and all of those who have been working so hard on the implementation of the computerization needs of the campus. I receive a lot of compliments from faculty, students and administrators about how much progress has been made in this regard. ResNet — the wiring of the dorm — is almost completed and opens up a world of possibilities that, properly utilized, enhance the learning environment here.

We have recognized that the library has computer needs, not only for the year 2000, but also in other ways. Now that the new director is on board, we will move vigorously in addressing those concerns.

We have to worry about where the dollars are going to come for equipment replacement over time. That is something that has not been built into the budget in any systematic way.

Let me recognize in a special way a number of persons who are new to the University in leadership positions or who have accepted new responsibilities:

- Carolyn Woo, dean of business administration
- Mark Roche, dean of arts and letters
- Patrick Geary, director of the Medieval Institute
- Scott Mainwaring, director of the Kellogg Institute
- Stuart Greene, director of First Year Composition
- Paul Bradshaw of the theology department, director of undergraduate studies in London
- Dan Saracino, assistant provost for enrollment
- Maureen Hallinan, of the sociology department, director of the Institute for Educational Initiatives

These are just a few of those who have recently assumed positions of academic leadership and administrative responsibility.

I would also like to recognize several faculty research achievements of note:

- Neal Cason, John LoSecco and Bill Shephard in the physics department for their research, the first evidence of an unobserved subatomic particle, the well-named exotic meson. Congratulations to them!

- Peter Schiffer and Laszlo Barabási from the physics department — scientific experimentation on the physical basis of the sticking power of wet sand, thus sand castles. I've always wondered why we could do sand castles!

- Elliot Rosen and Frank Castellino in chemistry and biochemistry — the first targeted gene deletion at Notre Dame.

- Wolf Porod, Gary Bernstein, Craig Lent and Greg Snider in electrical engineering — the first experimental demonstrations of the physics underlying quantum cellular automata.

- Keith Rigby, who has been in the paper a lot, from civil engineering and geological sciences — the discovery in Montana of either the largest *Tyrannosaurus rex* fossil ever, or a new species of dinosaur, and of course a lot of publicity over who controls what has been found.

- Seamus Deane, of Irish studies and the English department, whose novel *Reading in the Dark*, which I am using in my University seminar class, won two of the most prestigious Irish literature awards. Congratulations to him!

The Generations Campaign, which was publicly announced May 3 of this year, will continue in this public phase until December 31, 2000. I am happy to announce that we have reached about 70 percent of the goal. We are ahead of our targeted time table, but we have a lot of work to do. All of us in the administration have been out telling the Notre Dame story in dinners and lunches and we have had a tremendous response from those who have been invited to these special events. We will begin in the spring our regular routine of inviting selected couples for fly-ins to campus which have been very successful. Nathan Hatch has worked hard to make sure that the realization of the academic goals and priorities have the highest place. When we have underestimated our need in a given area, we are working hard on remedying the situation.



A couple of last comments before I finish.

The operating budget is always a dull subject but an important one. In 1996-97, our last budget year, we just barely broke even on the approved budget. We felt a greater degree of constraint than ever before and we had less flexibility than ever before because so many more items had been built into the budget, which is a good thing in terms of financial accountability. It is a good reminder to us of what the future might hold in store.

From unrestricted gifts we were able to put \$4.7 million into faculty capitalizations and academic facility survey items, which are lower key renovations of academic spaces. We were able to put \$3.6 million into financial aid endowment and \$4.6 million into expendable financial aid, one of the strategic moves that we have made to enhance the funds available in a given year. So I am happy to report that we were able to have that degree of flexibility, but within the operating budget itself we see growing pressure.

We constructed the budget for 1997-98 in light of our eighth straight year reducing the percentage of our tuition increase. While not very long ago we had double-digit increases, now we are getting closer and closer to about 5 percent, which is slightly higher than the rate of inflation but, in terms of what we are trying to achieve through the operating budget, that is a necessary gap. We built into this budget a 21 percent increase in our health care premiums, \$500,000 for salary increases arising from the staff reclassification project, a little more than \$500,000 for additional utility and maintenance costs, \$2.8 million for funding *Colloquy* priorities including faculty positions, and \$3.3 million for other academic and administrative priorities. So we were able to include a lot within the limited increase in the budget itself. But the strain is there.

Meanwhile, from a portion of room and board fees, we have over many years attended to academic building and residence hall renovations. Dur-

ing the last six years, we have spent \$35 million from room and board fees for this purpose. On the academic side, we have renovated Nieuwland, Hesburgh Library, O'Shaughnessy, Cushing, Fitzpatrick and Galvin. Alumni, Dillon, Sorin, Cavanaugh, Zahm and Morrissey Halls all also have received attention. As you know, this is the easiest thing not to attend to, and many schools including some very famous and prestigious ones have not done it and now are really paying the price. It is our intention to make sure that we do not fall into that trap.

Our endowment, which also enhances what we can do here, stands at \$1.5 billion, a wonderful increase over where we have been before. This was achieved through increased gifts and strong investment returns in a very healthy market. But comparatively, Harvard's endowment is \$8 billion and Yale is about \$5 billion. Many of the schools we are competing with have made significant progress themselves. But I am very pleased with where we are, especially if you see how quickly we have gotten to this point. I think that the wisdom of the past, that the strength of the endowment is one of the barometers of the strength of the institution, is proving true. From the endowment over the last four years, we have been able to increase spending by an average of about 11.1 percent per year. So, if you are getting income from the endowment, the increase has been substantial. We are very hopeful, on the basis of the yield in the last few years, that we will be able to significantly increase what we pay out per endowment unit during this coming academic year as well.

So when we look at the budget that we are currently constructing for 1998-99, we see the pressure of higher medical costs, additional monies needed for the staff reclassification project (a multiyear goal), a rate of tuition increase of approximately 5 percent, and the need for strong enforcement of budget spending across all of the units of the University. My premise is that new faculty positions will come primarily if not exclusively from endowment gifts.

All of which is to say: As I look back at this past year and look at the present year and on into the future, I think that we have enjoyed wonderful prosperity as an institution. We have seen signs of progress almost across the board, and we have reason to be thankful for the generosity of our benefactors. We have put into place an outstanding faculty, excellent students, and a high-quality physical environment in terms of instrumentation. We have kept up our buildings, and we have attended to another relatively low-cost but important item — the aesthetics, the beauty of the campus.

We have in place the makings of a University that we have only begun to picture in our minds. With proper discipline I am convinced that the future continues to be bright and promising for us all. Let us continue to work together. I thank you for your wonderful spirit of cooperation.

Thank you very much.



## Graduate Council Minutes

**September 24, 1997**

**Members present:** James L. Merz, chair; Terrence J. Akai, Ani Aprahamian; Gail Bederman; Joan Brennecke; Joseph A. Buttigieg; Suzanne Coshow; Peter Diffley; Teresa Ghilarducci; Maureen Gleason; Don Howard; Anthony K. Hyder; Lloyd Ketchum Jr.; Anthony N. Michel; Thomas L. Nowak; James H. Powell; Mark W. Roche; Gregory E. Sterling; Edward J. Stech; Barbara M. Turpin; Carolyn Y. Woo; Chris R. VandenBossche; Arvind Varma

**Members absent and excused:** Edward J. Conlon; William G. Dwyer; Donald P. Kommers; James H. Walton

**Observers:** Diane R. Wilson

**Guests:** Steven Buechler (for Francis J. Castellino)

Prof. Merz, vice president for graduate studies and research, called the meeting to order at 3:30 p.m. and welcomed the two new academic deans, Mark Roche of arts and letters and Carolyn Woo of business, to the council. All members then introduced themselves.

### I. Minutes of the 267th Graduate Council Meeting

Prof. Varma made one correction to the minutes. Chemical engineering guarantees funding only for graduate students in residence who are making timely and satisfactory progress toward degree, which typically takes 4.5 years. Once the correction was noted, the minutes of the 267th meeting were approved.

### II. Admission to Candidacy

In response to a question posed at the last council meeting, Prof. Merz said that admission of students to candidacy was approved by the Graduate Council as a matter of long-standing

tradition. It was instituted as a quality check when the graduate student body was considerably smaller. If the council determined that its approval no longer serves the original intent, then he would entertain a motion to eliminate this step of granting a Ph.D. at Notre Dame. After a short discussion, the motion to eliminate approval of Ph.D. candidates by the Graduate Council carried unanimously.

### III. Report on the Graduate School Activities for the Academic Year 1996-97

Prof. Merz first said that the mission of the Graduate School is to foster the development of Notre Dame as a distinguished teaching and research university in the Catholic tradition. Its objectives are threefold: to attract the best possible students, to develop these students to their highest potential as scholars in as short a time as possible, and to enhance the research capability of the University. The Graduate School can provide funding, advice and encouragement but these objectives can only be fulfilled through the diligent efforts of the faculty. Departments must be able to demonstrate that their use of new University resources has improved the quality of their programs.

With regard to student recruitment, the Graduate School presented recruiting workshops to departments in science and engineering, awarded four-year fellowships to 34 incoming students, improved the percentage of minority graduate students, and provided recruitment funds to all Ph.D.-granting academic departments.

The incoming classes have shown improvement since 1990. The number of students coming from research universities, the number of national fellowship awards, undergraduate GPA, and average GRE scores all increased over time. This last data point provoked discussion with respect to the merit of GRE scores as predictors of failure or of success. A study currently under way in the Graduate School may provide the answers at a departmental level.

With regard to professional development of graduate students, the Graduate School helped with the hiring of a placement officer, who will assist recent graduates who want non-academic careers. It also provided 34 dissertation fellowships for fifth- and sixth-year students, presented writing, job-hunting, and teaching workshops, and allotted professional development funds to academic departments. Currently, graduate placement is comparable to national figures and time to degree is as good as or better than national averages. New goals include placement of more graduates into research universities, implementation of summer research fellowships and mentoring programs.

Prof. Merz then formed a committee to explore the issue of graduate mentoring. The committee is composed of Joseph Buttigieg representing the humanities, Donald Kommers representing social sciences, Thomas Nowak representing science, Arvind Varma representing engineering, and a graduate student chosen by the Graduate Student Union. Prof. VandenBossche also recommended that a woman faculty member be placed on this committee. Prof. Merz thought this an excellent idea that the committee should consider.

The floor was opened for comments. Ms. Coshow stated that the council might add three agenda items for later discussion: providing more visibility and better working space for the graduate placement officer (who is a student affairs staff member); allowing the use of professional development money for student research activities (currently a responsibility of the mentor and department); and purchasing affordable health insurance for student dependents. In response to the goal of enhancing research activity on campus, Prof. Varma stated that it is not enough just to do more research. The effort must have impact upon the discipline.

The meeting was adjourned at 5:10 p.m.

## University Committee on Women Faculty and Students

September 11, 1997

**Members Present:** Kathleen Biddick, Melanie DeFord, Barbara Fick, Dolores Frese, Kelly McMahon, Michael Morris, G. Margaret Porter and Gretchen Reydams-Schils

**Members Absent:** Ani Aprahamian, Sarah Dakin, Diana DiBerardino and Elaine Tracy

**Members Excused:** Joan Brennecke, Brendan Kelley and Carol Ann Mooney

The meeting was called to order by Barbara Fick at 3:30 p.m. Melanie DeFord agreed to take minutes of the meeting. The minutes of the April 9, 1997, meeting were approved with minor changes.

### Junior Faculty Survey:

The final draft of the Junior Faculty Survey was distributed. Gretchen Reydams-Schils informed the committee that all ideas from previous discussions were incorporated into this final draft. She also noted that she received a great deal of input from the personnel of the Laboratory for Social Research, and thanked that lab for their timeliness with assistance. There was discussion as to whether we want to draw attention to the fact that the initiative for the survey came from this committee. It was decided that the second paragraph of the cover letter to the survey would be changed to reflect this discussion. The second paragraph will read as follows: "While the idea for this survey originated with the University Committee on Women Faculty and Students, it is intended to evaluate the mentoring process for *all* untenured faculty members, not just women." The Laboratory for Social Research has agreed to receive the surveys, as opposed to them being sent to the Office of the Provost. This change will maintain confidentiality. Any comments or changes, etc., should be sent to Reydams-Schills via e-mail by

Thursday, September 18, 1997. The Office of the Provost has the labels ready. The Laboratory for Social Research will send the surveys out in one to two weeks after receipt. The survey still needs to go to the Committee on Human Subjects for approval. Our goal for distribution this semester is intact.

### TCE Report:

There was no report due to Joan Brennecke's absence.

### Health Plan/Birth Control Issue:

Barbara Fick had communication regarding this issue with Roger Mullins. Roger Mullins provided some information. Birth control procedures are not covered for either sex. If birth control is prescribed for a patient it is discussed with regard to Catholic social teaching, not medical necessity. Roger Mullins calls one of three priests in situations such as this, and that call is made with the patient's permission. Anonymity is maintained for the patient. This committee will defer action on this issue to the Faculty Senate. The Faculty Senate's minutes indicate that they intend to follow up on this topic of interest.

### Co-residentiality:

Barbara Fick sent a letter to the chair of the Faculty Senate expressing the committee's interest in conducting a survey of faculty concerning the co-residentiality issue. There has been no response. A follow-up letter from the new chair of this committee should be sent to the new chair of the Faculty Senate. Melanie DeFord pointed out some excerpts from a letter to Notre Dame alumni and friends from President Malloy, dated May 3, 1997. These excerpts deal with the residential issues that need clarification from Father Malloy. These statements include: "First, we will reemphasize the crucial nature of the *on-campus residential experience* for all of our undergraduate students and for as many of our professional and graduate students as is feasible. . . . Third, we will carry forward and enlarge the *coeducational and multicultural commitments* of the last decade so that our students may discover in one another a rich resource

for learning outside the classroom and an opportunity to prepare for leadership in an increasingly pluralistic society." It was suggested that the question of Father Malloy's intentions regarding these statements be asked. A possible forum could reside in the Faculty Senate's meeting with the president.

### Women's Resource Center:

There is talk of a new committee being formed to evaluate social space on campus. Discussion took place as to the involvement of this committee regarding this topic. Should we point out the use of space for the Women's Resource Center? Michael Morris will look into this new committee's formation and population.

### Sexual Harassment Policy:

There was no report due to Carol Ann Mooney's absence.

### Election of New Chair:

Solicitation of nominations will occur by e-mail. A tenured female faculty member is the requirement for this post. Marlou Hall will pass names on to Barbara Fick. Fick will contact the nominee to determine her willingness to serve in this capacity.

### New Business:

The loss of Sister Kathleen Cannon in the Office of the Provost was noted. The replacement for her position was male. This prompted a discussion regarding the lack of women in roles of administrative and academic leadership on this campus. Confusion as to the roles of the various assistants to the provost was discussed as well. Perhaps a letter and/or meeting with the provost regarding these issues is in order after further discussion of these issues has been conducted by this committee.

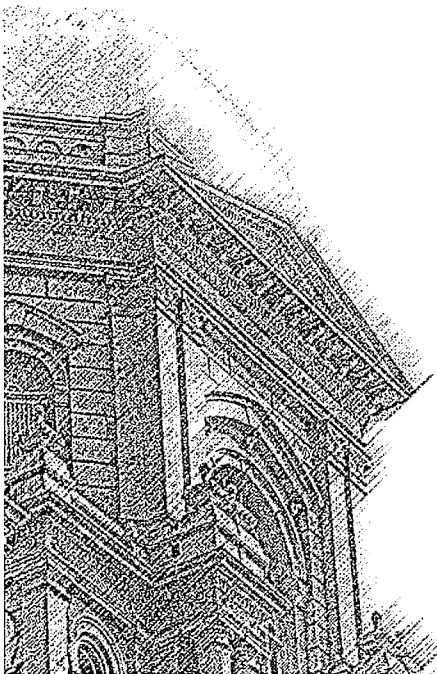
The next meeting of this committee will be scheduled once all members' schedules are known.

Respectfully Submitted,

Melanie DeFord

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# Notre Dame Report



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