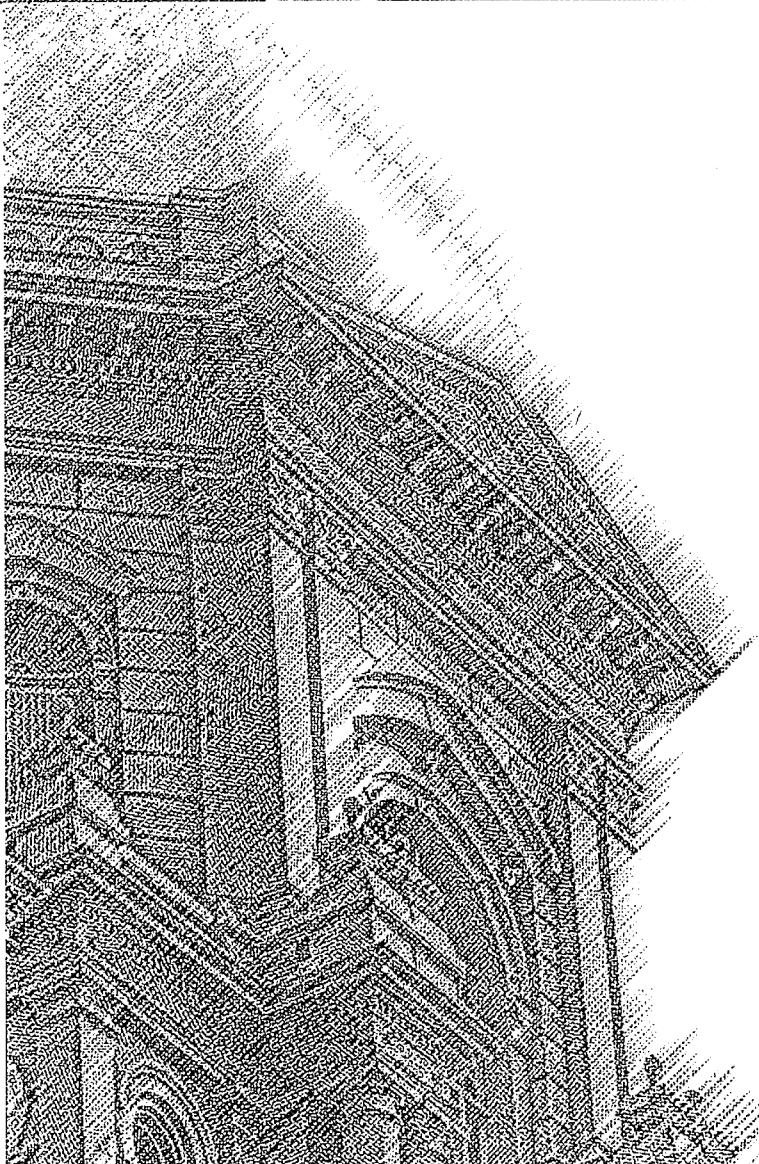


# Notre Dame Report

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AUGUST 22, 2002

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NUMBER 1

# Faculty Notes

## Honors

**David Aune**, professor of theology; **Sotirios Barber**, professor of political science; **W. Martin Bloomer**, professor of classics; **Jessica Chalmers**, assistant professor of film, television and theatre; and **Li Guo**, assistant professor of classics, were each awarded 2002-2003 fellowships from the American Council of Learned Societies. The award of five fellowships to Notre Dame faculty members represents the most for any college or university in the nation.

**Gail Bederman**, associate professor of history, has been named to the editorial advisory board of the *American Studies-Asia Journal*, a new international American studies journal based in the Philippines.

**Mohamed Gad-el-Hak**, professor of aerospace and mechanical engineering, has been inducted into the Johns Hopkins Society of Scholars. The honor was bestowed during the Johns Hopkins University 2002 Commencement.

**Ahsan Kareem**, Moran Professor of Civil Engineering, was awarded the Jack E. Cermak Medal by the Engineering Mechanics Division of the American Society of Civil Engineers and the Structural Engineering Institute for his contributions to research and practice in wind engineering.

**Julia Marvin**, assistant professor in the Program of Liberal Studies, received an AAUW American Fellowships Postdoctoral Research Leave Fellowship for 2002-2003.

**Ralph McInerny**, professor of philosophy, received the *Premio Roncesvalles de Filosofia* from the Anuario Filosófico Univ. de Navarra, Pamplona, Spain, July 12.

**Lisa Sedor**, assistant professor of accountancy, received the Outstanding Doctoral Dissertation Award from the Accounting, Behavior, and Organizations Section of the American Accounting Association.

## Activities

**Asma Afsaruddin**, assistant professor of Arabic and fellow at the Kroc Peace

Institute, gave the invited talk "Reconstituting Women's Public Lives: Gendered Biographies and Prescriptive Manuals" and chaired a panel on "Working Women and Their Professions" at the Women and the Labor Market: The Islamic World, Past and Present Conference, Harvard Law School, Cambridge, Mass., May 25-26; and presented the invited paper "The Challenges of Teaching Islam in the American Classroom, Post-9/11 Context" at a panel organized by the American Council for the Study of Islamic Societies during the Islam in America Conference, Chicago, July 5-7.

**Peri E. Arnold**, professor of political science, was commentator on Yahoo's FinanceVision Webcast of President Bush's June 6 address proposing a Department of Homeland Security; and was a guest on Milt Rosenberg's "Extension 720," WGN Radio, Chicago, discussing a "roundup" of recent political news, July 10.

**Gail Bederman**, associate professor of history, presented "Free Love, Radical Politics, and Contraception in 1831: Why Robert Dale Owen Wrote *Moral Physiology*" at the Society for Historians of the Early American Republic annual meeting, Berkeley, July 12; and commented on a panel entitled "Private Behavior/Professional Discourse: The Construction of 'Normative' Sexuality in the U.S. 1880-1920" at the Berkshire Conference on the History of Women, June 9.

**Katharina J. Blackstead**, librarian, presented and chaired a session on "Emerging PR Issues in Academic Library Advancement" at the annual conference of Development Officers of Research and Academic Libraries, at Pennsylvania State Univ., University Park, June 21.

**Jay Brandenberger**, professional specialist at the Center for Social Concerns and concurrent associate professor of psychology, presented "The Scholarship of Engagement: Research and Assessment of Moral Learning and Developmental Concerns" at the annual Assessment Conference of the American Association of Higher Education, in Boston, June; presented "Service-Learning and Community-Based Learning" for the Kaneb Center series on teaching, March; presented "Leadership and the

Student-Athlete" for the Bridge Discussion Series of the Mendelson Center for Sport, Character, and Culture, at Notre Dame, February; presented, with **Mary Beckman**, associate director of Academic Affairs and Research at the Center for Social Concerns, "Evaluating the Elements of a Community-Based Learning and Research Course" at the AAHE Conference on Faculty Roles and Rewards, in Phoenix, January.

**Jianguo Cao**, professor of mathematics, presented "Rigidity of Higher Dimensional Graph-manifolds" at the World Scientists Forum for Nanjing University 100th Anniversary, China, May 21; an invited lecture "Compact Manifolds of Non-positive Curvature and Small Volume" at Fudan Univ., Shanghai, May 30; "Harmonic Functions on Non-compact Manifolds with Big Ends" at the Institute of Mathematics, Chinese Academy of Sciences, June 11; and "Higher Dimensional Graph-manifolds of Non-positive Curvature" at Tsinghua Univ., Beijing, June 14.

**Theodore Cachey**, professor of Romance languages and literatures and Ravarino Director of the Devers Program in Dante Studies, presented "Vernacular Literature and Humanism" at the 37th International Congress on Medieval Studies, Kalamazoo, May, 5; and "The Life as Journey: Petrarch's *Letter to Posterity*" at the annual meeting of the Renaissance Society of America, Scottsdale, Ariz., April 12.

**Ian Carmichael**, professional specialist in the Radiation Laboratory, presented "Hydrogen Atoms in a Bottle: Theory and Experiment on Silesquioxane Encagement" at the American Conference on Theoretical Chemistry, Champion, Pa., July 13-18.

**Daniel M. Chipman**, professional specialist in the Radiation Laboratory, presented "Calculation of pKa from Dielectric Continuum Theory" at the American Conference on Theoretical Chemistry, Champion, Pa., July 13-18.

**Paul M. Cobb**, assistant professor of history, presented "Translating the *Geography*" at the meeting of the Ya'qubi Translation Project, Oxford Univ., U.K., July 3-6, and presented the paper "The Travails of Abu'l-Abbas: On Elephants, Caliphs, and Emperors" at the meeting of the School for 'Abbasid Studies at Cambridge Univ., U.K., July 6-9.

**Greg Downey**, assistant professor of anthropology and Kellogg Institute fellow, presented "Working WITH Culture AGAINST Domestic Violence" as part of Legal Rights for Survivors of Abuse, a seminar sponsored by the YWCA of St. Joseph County and Indiana Legal Services, Inc. July 31.

**Guillermo J. Ferraudi**, professional specialist in the Radiation Laboratory, presented "Magnetokinetic Behavior of the Redox Reactions of Transition Metal Compounds; Mechanistic Implications" at the Photodynamics Symposium, Univ. of South Dakota, Vermillion, July 24-27.

**Mohamed Gad-el-Hak**, professor of aerospace and mechanical engineering, delivered the short course "MEMS and Active Flow Control" at the von Kármán Institute for Fluid Dynamics, Brussels, Belgium, April 15-19; delivered the short course "Flow Control: Fundamentals and Practices," held in conjunction with the 32nd AIAA Fluid Dynamics Conference, St. Louis, June 22-23; was a member of the organizing committee for the Third AIAA Theoretical Fluid Mechanics Meeting, St. Louis, June 24-27, and chaired the sessions "Flow Control Theory" and the "Julian Cole Memorial Lecture," participated as a panelist in the Microfluidics Panel Discussion, and delivered the invited talk "Use of Continuum and Molecular Approaches in Microfluidics"; delivered the invited talk "Future Trends in Aerospace and Mechanical Engineering Education" at the Univ. of New York at Buffalo, Mar. 11; presented the invited lecture "Future Trends in Fluid Mechanics Research" at the National Science Foundation, Washington, D.C., Mar. 29; delivered the invited talk "Flow Physics in Microdevices" at the Univ. of New York at Buffalo, Mar. 12, at the National Science Foundation, Washington, D.C., Mar. 29, at Ecole Supérieure de Physique et de Chimie Industrielles, Paris, April 19, at the Polish Academy of Sciences, Warsaw, July 3, and at Rzeszów Univ. of Technology, Rzeszów, Poland, July 4; and delivered the invited talk "Compliant Coatings: What Works and What Doesn't?" at Technische Univ. München, Germany, June 18, and at Technische Univ. Berlin, July 12.

**Teresa Ghilarducci**, associate professor of economics and director of the Higgins Labor Research Center, presented "The Decline in Employer Benefits" and "Living Longer But Working More" at the Industrial Relations Research Association National Policy Forum at the National Press Club, Washington, D.C., June 19-21; taught "U.S. Income and Wealth Inequality" at the Century Foundation Summer Institute at Williams College, Williamstown, Mass., July 1-8; and served on the General Accounting Office Advisory Panel, Washington, D.C., July 17.

**Dirk M. Guldi**, associate professional specialist in the Radiation Laboratory, presented "Modulating Charge Transfer Interactions in Strongly Coupled Donor-Acceptor Systems" and "A Supramolecular Porphyrin-C60 Assembly; C60 in the Box" at the Second International Conference on Porphyrins and Phthalocyanines (ICPP-2), Kyoto, Japan, June 30 through July 5; "Charge Separation in Nanostructured Ensembles" at the CREST Symposium on Electron Transfer Chemistry, Osaka, Japan, July 6-7; and "Charge Separation in Carbon Nanostructures: Fullerenes and Single Wall Carbon Nanotubes" at the IUPAC Meeting, Photochemistry, Budapest, July 14-19.

**Encarnación Juárez**, assistant professor of Spanish, presented "El papel de las ropas en las autobiografías de soldados" at the VI Congreso de la Asociación Internacional Siglo de Oro (AISO), July 15-19, in Burgos, Spain.

**Kwan S. Kim**, professor of economics and Kellogg Institute fellow, presented "Global Economic Integration and Labor Markets" at the 11th annual conference of the Global Awareness Society in Vancouver, Canada, May 25; and "Economic Globalization, Democratization, and Asian Values—The Korean Experience and Its Lessons" at the Conference on Public Affairs in Global Perspective, Univ. of Innsbruck, Austria, June 27.

**Tom Laughner**, acting director of the Kaneb Center for Teaching and Learning, and **Kevin Barry**, assistant director of the Kaneb Center for Teaching and Learning, presented "Teaching Well Using Technology: A Faculty Member's Guide to Wise and Time-Efficient Use of Instructional Technology" at the annual

meeting of the American Association of College Pharmacists, July 13, in Kansas City, Mo.

**Julia Marvin**, assistant professor in the Program of Liberal Studies, presented "History, Fable, Chronicle, Romance: What Distinction in the Eye of the Contemporary Beholder?" at the third conference, "The Medieval Chronicle," Univ. of Utrecht, July 12-17; "Vernacular Historiography and the Question of Genre: The Case of the Prose *Brut Chronicle*" at the International Medieval Congress, Univ. of Leeds, July 8-11; and "Theory and Practice in the Editing of Anglo-Norman Prose" at the 37th International Congress on Medieval Studies, Western Michigan Univ., May 2-5.

**Grant Mathews**, professor of physics, presented "New Paradigms in Primordial Nucleosynthesis," an invited overview talk, at the 7th International Symposium on Nuclei in the Cosmos, Fuji-Yoshida, Japan, July 8; and "Cosmology and Nuclear Astrophysics," an invited overview talk, at the Workshop on Light-to-Heavy Elements in Cosmology and Galactic Evolution, National Astronomical Observatory, Tokyo, July 16.

**Anthony N. Michel**, Freimann Professor of Engineering and McCloskey Dean of Engineering Emeritus, presented an invited lecture "The Impact of Functional Analysis on Stability Theory" at the annual meeting of the Society of Industrial and Applied Mathematics, Philadelphia, July 18-21.

**Peter Moody**, professor of political science, spoke on the American political system and process at the Sinto Program for Japanese Business People, Mendoza College of Business, Notre Dame, June 11.

**Guillermo O'Donnell**, Kellogg Professor of Political Science, gave the inaugural address "Frontiers and Dilemmas of Contemporary Latin America" at the Third Congress of European Latin Americanists (CEISAL), Amsterdam, July 3.

**Teresa Godwin Phelps**, professor of law, presented two writing workshops at the annual meeting of the Council for Appellate Staff Attorneys, Flagstaff, Ariz., July 20.

**Morris Pollard**, Coleman Chair Emeritus of Biological Sciences and director, Lobund Laboratory, presented an invited report on "Prevention of Experimental Prostate Cancer" at the 17th Congress of the International Union Against Cancer, Oslo, June 29 through July 5; and reviewed "The Lobund-Wistar Model of Prostate Cancer" at the 39th meeting of the International Association for Gnotobiology, North Carolina State Univ., Raleigh, July 14-18.

**Wolfgang Porod**, Freimann Professor of Electrical Engineering, coauthored "Simulation of Single-Electron Tunneling Transistor Circuits" with C. Gerousis, S.M. Goodnick, and A.I. Csurgay, presented in the Special Session "Towards Nanoelectronic Integrated Circuits" at the 2002 IEEE International Symposium on Circuits and Systems, Scottsdale, May 26-29; and, at the same meeting, he coauthored a tutorial session on nanoelectronics with A. Csurgay and S. Goodnick.

**Joseph M. Powers**, associate professor of aerospace and mechanical engineering, presented "A Karhunen-Loève Galerkin Technique with Shock Fitting for Optimization of a Blunt Body Geometry," coauthored with G.P. Brooks, and chaired a session at the 38th AIAA/ASME/SAE/ASEE Joint Propulsion Conference and Exhibit, Indianapolis, July 7-10.

**Vera Proffit**, professor of German and Russian languages, presented an invited paper "A Psychological Paradigm of Evil: Emmenberger in Friedrich Dürrenmatt's *Der Verdacht*" at the Kentucky Foreign Language Conference, Lexington, April 18.

**John E. Renaud**, professor of aerospace and mechanical engineering, presented "Reliability Based Design Optimization for Multidisciplinary Systems Using Response Surface," "Reduced Sampling for Construction of Quadratic Response Surface Approximations Using Adaptive Experimental Design," and "Parallel Processing in Sequential Approximate Optimization" at the 43rd AIAA/ASME/ASCE/AHS/ASC Structures, Structural Dynamics, and Materials Conference; and on June 4 presented an invited seminar "Decision-Based Collaborative Optimization and Estimation of Propagated Uncertainty" at NASA Langley Research

Center in Hampton, Va., and simulcast on the World Wide Web, as part of the ICASE Lecture Series on Risk-Based Design.

**Mark W. Roche**, O'Shaughnessy Dean and Joyce Professor of German Language and Literature, spoke on "The Intellectual Appeal of Catholicism and the Idea of a Catholic University" at Newman Univ., Wichita, Kans., Aug. 1.

**Dennis M. Snow**, professor of mathematics, presented "An Upper Bound for  $\dim \text{Aut}(X)$ " during the 40th annual meeting of the Clavius Group at Fairfield Univ., Conn., July 14-20.

**J. Kerry Thomas**, Nieuwland Professor of Chemistry, presented an invited lecture "Charge Stabilization in Zeolites. Unusually Rapid Electron Transfer" at the Univ. of Connecticut, Storrs, July 17.

**Eduardo E. Wolf**, professor of chemical engineering, presented invited lectures on "Combinatorial Catalysis, Challenges and Opportunities" at the Catalysis Club of Chicago Spring Symposia, Northwestern Univ., Evanston Ill., May 20, and at the International Workshop on Frontiers on Material Science, Reñaca, Viña del Mar, Chile, May 21-25.

## Publications

**John H. Adams**, associate professor of political science, coauthored "Evolutionary Relationships of Conserved Cysteine-Rich Motifs in Adhesive Molecules of Malaria Parasites" with P. Michon, J.R. Stevens, and O. Kaneko, in *Molecular Biology and Evolution* 19, no. 7 (2002):1128-1142; and "Transcripts of Developmentally Regulated Plasmodium *falciparum* Genes Quantified by Real-time RT-PCR" with P.L. Blair, A. Witney, J.D. Haynes, J.K. Moch, and D.J. Carucci, in *Nucleic Acids Research* 30, no. 10 (2002): 2224-2231.

**Joan Aldous**, Kenan Chair of Sociology, coauthored "Father's Child Care and Children's Behavior Problems: A Longitudinal Study" with G. Mulligan, published in the *Journal of Family Issues* 23, no. 5 (July): 624-647.

**Stephen M. Batill**, chair and professor of aerospace and mechanical engineering, coauthored "Decision Based Collaborative Optimization" with X. Gu, **John E. Renaud**, professor of aerospace and mechanical engineering, L.M. Ashe, A.S. Budhiraja, and **Lee J. Krajewski**, Daley Professor of Manufacturing Strategy, Dept. of Management, *ASME Journal of Mechanical Design* 124, no. 1 (March): 1-13.

**Alicia M. Beatty**, associate professor of chemistry and biochemistry, coauthored "Reaction of 2-Butyne with *nido*-[1,2-(Cp\* $\text{RuH}$ ) $_2\text{B}_3\text{H}_7$ ]: Improved Kinetic Control Leads to Metallacarboranes of Novel Composition and Structure" with H. Yan and **Thomas P. Fehlner**, Grace-Rupley Professor of Chemistry, in *Angewandte Chemie International Edition* 41 (2002): 2578-2581; and coauthored "Routes to Compounds Containing M-B Bonds. Reaction of [Cp\* $\text{FeH}_2$ ] $_2$  with  $\text{BH}_3 \cdot \text{THF}$ , Yielding the Hydrogen-Rich *arachno*-Ferrapentaborane 1-Cp\* $\text{FeB}_4\text{H}_{11}(\text{Cp}^*\eta^5\text{-C}_5\text{Me}_5)$ " with M.A. Peldo and Thomas P. Fehlner, *Organometallics Communications* 21 (2002): 2821-2823.

**Roger K. Bretthauer**, professor emeritus of chemistry and biochemistry, coauthored "Liposomes and Phospholipid Binding Proteins in Glycoprotein Biosynthesis" with D.W. Welsh, in *Methods in Molecular Biology* 199, **Subhash C. Basu**, professor of chemistry and biochemistry, and M. Basu, eds. (Totowa, N.J.: Human Press, Inc., 2002): 131-143.

**Theodore Cachey**, professor of Romance languages and literatures and Ravarino Director of the Devers Program in Dante Studies wrote "Italy and the Invention of America," *The New Centennial Review. Early Modernities* 2.1 (Spring): 17-32.

**Francis J. Castellino**, dean emeritus of science, Kleiderer-Pezold Professor of Chemistry and Biochemistry, and director of the Center for Transgene Research, coauthored "The X-ray Crystallographic Structure of the Angiogenesis Inhibitor Angiostatin" with M.C. Abad, R.K. Arni, D.K. Grella, A. Tulinsky, and J.H. Geiger, in *Journal of Molecular Biology* 138 (2002): 1009017.

**Daniel M. Chipman**, professional specialist in the Radiation Laboratory, published "Comparison of Solvent Reaction

Field Representations" in *Theoretical Chemical Accounts* 107 (2002): 80-89; coauthored "Implementation of Solvent Reaction Fields for Electronic Structure" with M. Dupuis, *ibid.*, 90-102; published "Energy Correction to Simulation of Volume Polarization in Reaction" in the *Journal of Chemical Physics* 116 (2002): 10129-10138; and published "Energy Correction to Simulation of Volume Polarization in Reaction Field Theory" in *Journal of Chemical Physics* 116, no. 23 (2002): 10129-10138.

**Kevin J. Christiano**, associate professor of sociology, coauthored "Sekülerleşme Teorisi: Bir Kavramın Serüveni" with W.H. Swatos Jr., in *Sekülerizm Sorgulanıyor: 21. Yüzyılda Dinin Geleceği*, A. Köse, trans., M. Armagan, ed. (Harebiye, Istanbul, Türkçe: Ufuk Kitapları, 2002): 95-121; and a review of *Committed to the State Asylum: Insanity and Society in Nineteenth Century Quebec and Ontario* by J.E. Moran (McGill-Queen's Univ. Press, 2001) in *Quebec Studies* 32 (Fall/Winter 2002): 135-136.

**Thomas P. Fehlner**, Grace-Rupley Professor of Chemistry, published "Metallaboranes of the Earlier Transition Metals: Relevance to the Cluster Electron Counting Rules in Group 13 Chemistry" as chapter 4 of *Fundamentals to Applications*, P.J. Shapiro and D.A. Atwood, eds. (American Chemical Society Symposium Series 822, 2002): 49-67.

**Guillermo Ferraudi**, professional specialist in the Radiation Laboratory, coauthored "Shielding of Electron Acceptors Coordinated to Rhenium(I) by Carboxylato Groups. Intraligand and Charge-transfer Excited-state Properties of *fac*-( $\text{Anthraquinone-2-carboxylato}$ )( $2,2'$ -bipyridine)tricarboxylrhenium (*fac*-[ $\text{Re}^{\text{I}}(\text{aq-2-CO}_2)(2,2'\text{-bipy})(\text{CO})_3$ ])" with G.T. Ruiz, M.P. Juliarena, R.O. Lezna, E. Wolcan, and M.R. Feliz, in *Helvetica Chimica Acta* 85 (May): 1261-1275.

**Mohamed Gad-el-Hak**, professor of aerospace and mechanical engineering, coauthored "Temporal Stability of Flow through Viscoelastic Tubes" with M. Hamadiche, *Journal of Fluids and Structures* 16, no. 3 (April): 331-359.

**Richard Garnett**, associate professor of law, published "The Right Questions

About School Choice: Education, Religious Freedom, and the Common Good" in the *Cardozo Law Review* 23 (March).

**Rev. Daniel G. Groody, C.S.C.**, assistant professor of theology and associate director of the Institute for Latino Studies, published *Border of Death, Valley of Life: An Immigrant Journey of Heart and Spirit* (Rowman and Littlefield Publishers, Inc., 2002).

**Dirk Guldi**, associate professional specialist in the Radiation Laboratory, coauthored "Uphill Photooxidation of NADH Analogues by Hexyl Viologen Catalyzed by Zinc Porphyrin-Linked Fullerenes" with S. Fukuzumi, H. Imahori, K. Okamoto, H. Yamada, M. Fujitsuka, and O. Ito, published in the *Journal of Physical Chemistry A* 106 (2002): 1903-1908; published "Fullerene-Porphyrin Architectures: Photosynthetic Antenna and Reaction Center Models" in *Chemical Society Reviews* 31 (2002): 22-36; coauthored "Chemoselective Sensors for Lead(II) and Alkali Metal Ions Based on Self-Assembling Fluorescence Enhancement (SAFE)" with W.S. Xia, R.H. Schmehl, C.J. Li, J.T. Mague, and C.P. Luo, published in the *Journal of Physical Chemistry B* 106 (2002): 833-843; coauthored "Th Symmetrical Hexakisadducts of C60 with a Densely Packed p-Donor Shell can Act as Energy- or Electron-Transducing Systems" with M. Diekers, C.P. Luo, and A. Hirsch, published in *Chemistry - European Journal* 8 (2002): 979-991; and coauthored "Molecular Engineering of C60 Based Conjugated Oligomer Ensembles: Modulating the Competition Between Photoinduced Energy and Electron Transfer Processes" with C.P. Luo, A. Swartz, R. Gomez, J.L. Segura, N. Martin, C. Brabec, and N.S. Sariciftci, published in the *Journal of Organic Chemistry* 67 (2002): 1141-1152.

**Gordon L. Hug**, associate professional specialist in the Radiation Laboratory, coauthored "Quenching of the Excited Singlet State of Acridine and 10-Methylacridinium Cation by Thio-Organic Compounds in Aqueous Solution" with T. Pedzinski and B. Marciniak, in *Journal of Photochemistry and Photobiology A: Chemistry* 150 (2002): 21-30.

**Richard Jensen**, guest professor of biological sciences and director, Greene-Nieuwland Herbarium, coauthored

"Intersimple Sequence Repeat (ISSR) Variation in *Lactoris Fernandeziana* (*Lactoridaceae*), a Rare Endemic of the Juan Fernandez Archipelago, Chile" with D.M. Crawford, M. Tago-Nakazawa, T.F. Stuessy, G.J. Anderson, G. Bernardello, E. Ruiz, C.M. Baeza, A.D. Wolfe, and M. Silva, published in *Plant Species Biology* 16 (2001): 185-192.

**Kwan S. Kim**, professor of economics and Kellogg Institute fellow, authored "The Financial Crisis and Reform in an Emerging Market: Lessons from South Korea's 1997-98 Experience" in *Zukunftsperspektiven der Finanzierung Oeffentlicher Aufgaben*, E. Theur and E. Thoeni, eds. (Boehrlau Verlag: Wien, Koeln, and Weimar, 2002): 55-84.

**Yahya C. Kurama**, assistant professor of civil engineering and geological sciences, coauthored with M. Allen "Design of Rectangular Openings in Precast Walls Under Vertical Loads," *PCI Journal* 47, no. 1 (Jan.-Feb.): 50-67.

**David M. Lodge**, professor of biological sciences and Kroc Institute fellow, coauthored "Putting the Lake Back Together: Reintegrating Benthic Pathways into Lake Food Web Models" with Y. Vadebon-coeur and M. Jake Vander Zanden in *BioScience* 52, no. 1 (2002): 44-54.

**Julia Marvin**, assistant professor in the Program of Liberal Studies, wrote a review of Wace's *Roman de Brut*, *A History of the British: Text and Translation*, presented and translated by J. Weiss, *Speculum* 76 (2001): 810-811; and a review of *The Chronicle of Robert Mannyng of Brunne*, edited by I. Sullens, *Journal of English and Germanic Philology* 101 (2002): 122-24.

**Grant Mathews**, professor of physics, coauthored "Model Independent Primordial Power Spectrum from Maxima, Boomerang and DASI Data" with Y. Wang, in *Astrophysical Journal* 573 (2002): 1-6.

**Marvin J. Miller**, Clark Professor of Chemistry and Biochemistry, was awarded Patent No. 6,403,623 B1 for "Heterocyclic Antituberculosis Agents." June 11.

**Asokendu Mozumder**, research professor emeritus of chemistry and biochemistry and professional specialist in the Radiation Laboratory, published

"Ionization and Excitation Yields in Liquid Water Due to the Primary Irradiation: Relationship of Radiolysis with Far UV-Photolysis" in *Physical Chemistry Chemical Physics* 4 (2002): 1451-1456.

**Agnes E. Ostafin**, assistant professor of chemical engineering, coauthored "Self-Assembled Highly Ordered Spherical Mesoporous Silica/Gold Nanocomposites" with R.I. Nooney, T. Dhanasekaran, Y.M. Chen, and R. Josephs, *Advanced Materials* 14 (2002): 529-532.

**Timothy C. Ovaert**, professor of aerospace and mechanical engineering, coauthored "Optimal Design of Layered Structures Under Normal (Frictionless) Contact Loading" with J. Pan, *ASME Trans., Journal of Tribology* 124, no. 3 (2002): 438-442.

**Joseph M. Powers**, associate professor of aerospace and mechanical engineering, coauthored "On Slow Manifolds of Chemically Reactive Systems" with S. Singh and **Samuel Paolucci**, professor of aerospace and mechanical engineering, *Journal of Chemical Physics* 117, no. 4 (July 22): 1482-1496.

**John E. Renaud**, professor of aerospace and mechanical engineering, copublished "Reliability Based Design Optimization for Multidisciplinary Systems Using Response Surface" with H. Agarwal; "Reduced Sampling for Construction of Quadratic Response Surface Approximations Using Adaptive Experimental Design" with V.M. Perez and L.M. Watson; and "Parallel Processing in Sequential Approximate Optimization" with V.M. Perez and T.B. Apker, on the CD-Rom *Proceedings of the 43rd AIAA/ASME/ASCE/AHS/ASC Structures, Structural Dynamics, and Materials Conference*.

**Joachim Rosenthal**, professor of mathematics and concurrent professor of electrical engineering, coauthored "Output Feedback Invariants" with M.S. Ravi and U. Helmke, in *Linear Algebra and Its Applications* 351-352 (2002): 623-637.

**W. Robert Scheidt**, Warren Professor of Chemistry and Biochemistry, coauthored "Iron Normal Mode Dynamics in (Nitrosyl)-iron(III)tetraphenylporphyrin from X-ray Nuclear Resonance Data" with B.K. Rai, S.M. Durbin, E.W. Prohofsky, J.T. Sage, G.R.A. Wyllie, W.

Sturhahn, and E.E. Alp, in *Biophysical Journal* 82 (2002): 2951-2963.

**Slavi C. Sevov**, professor of chemistry and biochemistry, coauthored "Synthesis and Characterization of [Mo<sub>7</sub>O<sub>16</sub>(O<sub>3</sub>PCH<sub>2</sub>PO<sub>3</sub>)<sub>3</sub>]<sup>8-</sup>: A Mixed-Valent Polyoxomolybdenum Diphosphonate Anion with Octahedrally and Tetrahedrally Coordinated Molybdenum" with E. Dumas, C. Sassoey, and K.D. Smith, *Inorganic Chemistry* 41 (2002): 4029-4032.

**Michael M. Stanislac**, associate professor of aerospace and mechanical engineering, coauthored "Humanoid Humeral Pointing Kinematics" with J. Lenarcic and E. Schearer in *Advances in Robot Kinematics*, J. Lenarcic and F. Thomas, eds. (The Netherlands: Kluwer Academic Publishers, 2002): 79-88.

**Eduardo E. Wolf**, professor of chemical engineering, coauthored "FTIR Study of the Reduction of NO by CO over Rh/SiO<sub>2</sub> Catalysts with Different Crystallite Size" with P. Araya, F. Gracia, and J. Cortes, in *Applied Catalysis B, Environmental* 38 (2002): 77-90.

## Appointments

**Donald B. Pope-Davis**, professor of psychology, has been appointed assistant vice president and associate dean for graduate studies at the University, effective Aug. 22.

# Administrators' Notes

## Publications

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**Alan S. Bigger**, director of Building Services, coauthored "Oh How the Mighty Have Fallen: The Need for Value-Driven Customer Service" with L.B. Bigger, in *Executive Housekeeping Today* 23, no. 7 (July): 6-9, 14; and "Hands-on Cleaning Tools," also with L.B. Bigger, in *Maintenance Solutions* (July): 18-20; and "Lesson from Cacti: Surviving the Prickles of Life," also with L.B. Bigger, *Executive Housekeeping Today* 23, no. 8 (Aug.): 6-8, 13.

**Kate Russell**, editor, University Communications Design, wrote "Baseball, Hot Dogs, and No Time of Your Own," *Niles Daily Star*, June 22.



# Documentation

## 2002-2003 Publication Schedule for *Notre Dame Report* Vol. 32

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- No. 1  
*Deadline:* Wednesday, Aug. 7  
*Publication Date:* Friday, Aug. 23
- No. 2  
*Deadline:* Wednesday, Aug. 21  
*Publication Date:* Friday, Sept. 6
- No. 3  
*Deadline:* Wednesday, Sept. 4  
*Publication Date:* Friday, Sept. 20
- No. 4  
*Publication Date:* Friday, Oct. 11
- No. 5  
*Deadline:* Wednesday, Oct. 9  
*Publication Date:* Friday, Oct. 25
- No. 6  
*Deadline:* Wednesday, Oct. 23  
*Publication Date:* Friday, Nov. 8
- No. 7  
*Deadline:* Wednesday, Nov. 6  
*Publication Date:* Friday, Nov. 22
- No. 8  
*Deadline:* Wednesday, Nov. 20  
*Publication Date:* Friday, Dec. 6
- No. 9  
*Deadline:* Wednesday, Jan. 1, 2003  
*Publication Date:* Friday, Jan. 17
- No. 10  
*Deadline:* Wednesday, Jan. 15  
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## *Notre Dame Report* Submission Information

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Faculty (all classes: teaching research faculty, special professional faculty, and librarians and special research faculty) and administrators may submit information to be printed in *Notre Dame Report* to 502 Grace Hall or via e-mail to [ndreport.1@nd.edu](mailto:ndreport.1@nd.edu). E-mailed information will be acknowledged as soon as edited for placement in an upcoming issue. Please be sure to indicate ND faculty or administrators' names with an asterisk.

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#### **Documentation:**

Meeting minutes from the Graduate Council, Academic Council, Faculty Senate, University Committee on Libraries, Committee on Research and Sponsored Programs, Faculty Board on Athletics and University Committee on Women Faculty and Students are printed in *Notre Dame Report*. These minutes should be sent in electronic form to 502 Grace Hall or via e-mail to [ndreport.1@nd.edu](mailto:ndreport.1@nd.edu).

## **Summary of Meetings of the Advisory Committee on Academics and Student Life—2001-2002**

**Co-chairs** Nathan O. Hatch, Provost  
Mark L. Poorman, C.S.C.,  
Vice President for Student Affairs

**Members** Ani Aprahamian  
George Howard  
Gary Chamberland, C.S.C.

Pat Thomas, O.P.  
Frank Incropera  
Patrick Utz  
Reinhold Zeidler  
Luciani Reali  
Philip Slonkosky

**Secretaries** Mary Pugel  
Ann Firth

#### Meeting of September 28, 2001

1. Dr. Hatch and Fr. Poorman thanked the members of the Advisory Committee on Academics and Student Life (ACASL) for their willingness to serve and emphasized the importance of the committee's work in better integrating academics and student life at Notre Dame.
2. During the spring of 2001, committee members had identified the following topics as worthy of further study:
  - a) student mentoring, advising and guidance
  - b) appropriate role of technology
  - c) experiential learning opportunities
  - d) intellectual engagement of students outside of the classroom
  - e) allocation of space in new and renovated buildings/impact on faculty/student interaction
  - f) first-year experience
3. For the 2001-02 academic year, the committee decided to take up the question of students' intellectual engagement, dividing into four subcommittees for the purpose of hosting focus groups with students, faculty and administrators to explore this issue.

The student focus groups will be asked the following kinds of questions:

1. Dr. Hatch, Fr. Poorman, Sr. Thomas, Luciana Reali, Holt Zeidler, and Phil Slonkosky agreed to meet with the Hall Presidents' Council for the purpose of garnering support for the committee's efforts to reinvigorate the hall academic commissioners. In the past, the duties associated with the position of hall academic commissioner have, in most halls, been somewhat limited and the position has not received the recognition or support it deserves.

#### Meeting of November 9, 2001

1. Dr. Hatch and Fr. Poorman provided the committee with an update on a dinner meeting planned for the hall academic commissioners with ACASL members. The academic commissioners will be encouraged to play an active role in creating a more vibrant intellectual climate at Notre Dame, both by hosting events within their halls and by organizing campus-wide events. The commissioners' efforts will be supported by the Provost's Office and Student Affairs.
2. Committee members met within their subcommittees for the purpose of planning the listening sessions on intellectual engagement. Each of the four subcommittees was asked to meet with four focus groups: two student groups, one faculty group, and one group of rectors or student services/academic services administrators. The listening sessions are to be completed by March of 2002.

#### Meeting of March 25, 2002

Committee members reported on the listening sessions with campus focus groups on the topic of students' intellectual engagement. Several key points emerged:

##### *1. Changing Face of Residence Hall Life*

There has been a change in how students use their discretionary time within the residence halls. Rectors report less community-oriented interactions and more time spent individually or interacting with small groups. Video and computer games, especially in the male residence halls, consume much time. Residence halls are perceived by many students as places to which they retreat from academic pressures, creating some resistance to academic programming within the halls. Alcohol use and abuse is a factor in residence hall life. Weekends, accompanied by increased use of alcohol, can start as early as Wednesday. Many students participate in athletic activities. Communication patterns have changed in residence halls with increased communication, even within halls, taking place electronically. Some perceive that parietals in residence halls can restrict normal socializing and studying.

2. *Academic vs. Intellectual Engagement*  
 Notre Dame students, both self-reported and as observed by rectors and faculty, are academically talented and perhaps even driven. Some report that students are driven more by achieving academic success ("getting the A") rather than by engaging intellectually, making a distinction between "intellectual engagement" and "academic engagement." Notre Dame students also actively engage in service-related and athletic pursuits, leaving many with little time or energy to pursue greater intellectual engagement. Notre Dame's culture tends to attract more "doers" than "thinkers." Should we make a more systematic effort to recruit more "thinking"-type students? Should Notre Dame offer more merit scholarships to broaden the student body?

### 3. *First Year Experience*

Some students and faculty expressed a desire to give first-year students greater opportunities to experience more advanced courses, especially for the more intellectually curious. Some disparity was reported by students in the effectiveness or the impact of their first-year experience: some report the experience as an "extension of high school", while others report a challenging experience. Because of the large size of many first-year classes, some students feel disconnected and less engaged intellectually.

### 4. *Interactions with Faculty*

Students generally welcome non-classroom interactions with faculty members; rectors welcome faculty member presence in residence halls for hall programming. Increasing the amount of hall programming will not necessarily bring about greater intellectual engagement on the part of students: real engagement begins in the classroom and happens in small groups. It is important to consider how new buildings are designed to encourage faculty/student interactions outside the classroom: intermingling classrooms and faculty offices and creating additional "coffee house" spaces would be helpful. Invitations to students to join faculty for lunch or dinner are welcomed by students. Faculty living in the residence halls can be a positive or a negative, depending on the expectations of both faculty members and students and the personality of faculty members. Faculty members should

be encouraged to be present daily on campus and to post office hours.

### 5. *Course Load/Curriculum*

Is it time to reevaluate the course load model? Would increasing seminar projects, requiring a senior thesis, etc. enhance student intellectual engagement? Would more one-credit courses enhance intellectual engagement, allowing students to pursue other interests outside of their majors?

### Meeting of April 12, 2002

1. In light of the information gathered through the focus groups, committee members discussed ideas for specific programs which might improve the intellectual climate on campus. For the 2002-03 academic year, the Provost's Office and Student Affairs will collaborate on two initiatives:

A. Expanding the "Discernment Dinner" Program: "Discernment Dinners" were hosted in five residence halls during the 2001-02 academic year, bringing together faculty members and first year students to discuss major and career choices. Given the success of this program, it will be expanded to all of the 27 residence halls. Along with faculty, upperclass students will be invited to share with the first-year students their experiences and insights about choosing an area of study.

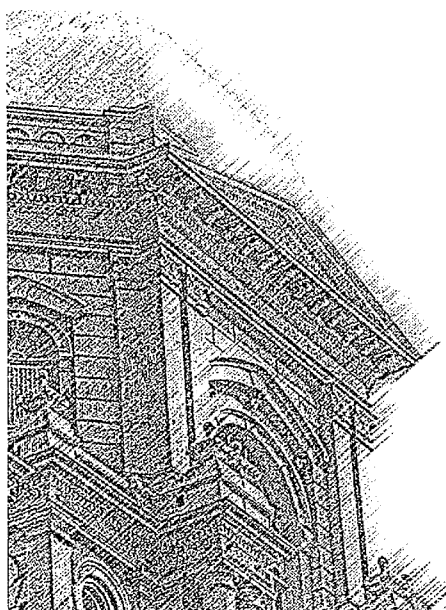
B. Reinvigorating the Academic Commissioners: While some progress has been made in terms of reenergizing the academic commissioners, there is a need for sustained administrative commitment. The Provost's Office will designate one of the assistant provosts to work directly with the hall academic commissioners, drafting a job description for them, meeting with them on a regular basis, serving as a liaison between faculty and the commissioners, and providing the necessary financial and logistical support. Student Affairs will work closely with the assistant provost.

2. Dr. Hatch and Father Poorman thanked ACASL members for their service over the course of the academic year.

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# Notre Dame Report

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Kate Russell, Editor  
University Communications Design  
502 Grace Hall  
Notre Dame, IN 46556-5612  
(574) 631-4633  
e-mail: [ndreport.1@nd.edu](mailto:ndreport.1@nd.edu)

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