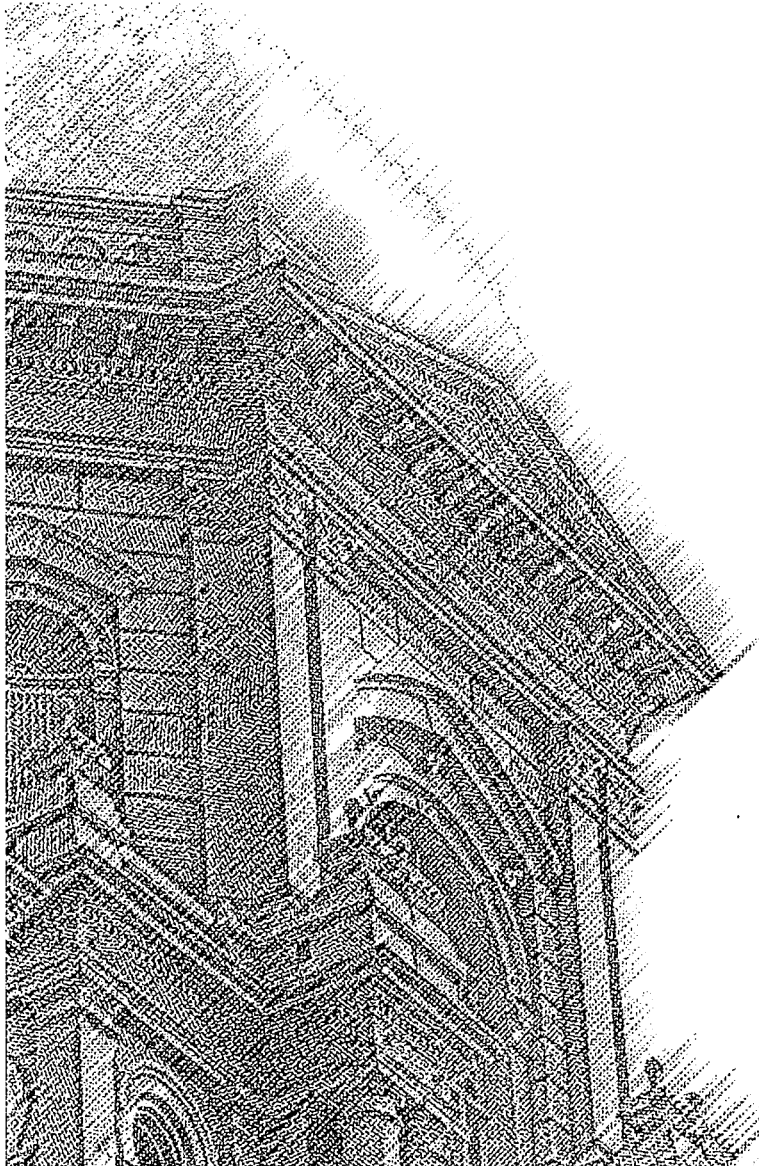


Notre Dame Report



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The University

Faculty Members to Serve on Task Forces to Develop Plan for Academic Advance

More than 100 University of Notre Dame faculty members have agreed to serve on eight task forces that will develop a Plan for Academic Advance, according to the University's provost, Nathan O. Hatch.

Initiated at the direction of Notre Dame's president, Rev. Edward A. Malloy, C.S.C., the plan will build on the University's progress to date in achieving goals of the Colloquy for the Year 2000 and set out new guidelines in Notre Dame's quest for excellence. The process is in part a continuation of the University's self-examination when it was considering membership in the Big Ten Conference and its academic consortium, the Committee on Institutional Cooperation.

"Our purpose in undertaking the development of this plan is to assess the state of the University at the halfway point in the implementation of the Colloquy for the Year 2000 and to consider suggestions for modifying or expanding our current efforts," Hatch said. "My sense is that to date we have made great strides in increasing the size and quality of the faculty, in enhancing scholarship aid for students, and in building an infrastructure for research and teaching. Now is an appropriate time to review our priorities and to develop concrete steps to continue progress toward our aspirations."

Hatch has asked the task force members for specific suggestions of how, in the near term, Notre Dame can continue building the nation's premier Catholic university. He challenged each group to find better ways to channel the University's collective energies and resources while working within the parameters of the Colloquy and with a full realization of current budget realities.

"The focus must be to review current priorities and recommend how best to reorient them," Hatch said.

The plan to be submitted to Father Malloy will build on the efforts of the eight task forces, which are conducting their work between now and the end of the current academic term. All members of the Provost's Advisory Committee (PAC) have been asked to serve on one of the task forces, each of which is comprised of eight to 10 faculty members, including deans, senior academic administrators from the provost's office, chaired professors, and representatives of the Faculty Senate.

Each task force will present a report to PAC, which then will assess their salient features and interrelationships. Hatch will meld the task force reports with feedback from PAC into a final plan to be presented to Father Malloy.

The task forces and their members are as follows:

Task Force on Consortial Relations

Chair: Carolyn Woo, Martin J. Gillen
Dean of the College of Business Administration and Ray and Milann Siegfried Professor of Management
Members: Gregory Sterling, associate professor of theology; Billie Spencer, professor of civil engineering and geological sciences; Joseph Bauer, professor of law; Kathie Newman, associate dean of the College of Science and professor of physics; LeRoy Krajewski, William R. and F. Cassie Daley Professor of Manufacturing Strategy; Jennifer Younger, director of University Libraries; Philip Mirowski, Carl E. Koch Professor of Economics; Patricia O'Hara, vice president for Student Affairs and professor of law; James Merz, vice president for Graduate Studies and Research and Frank M. Freimann Professor of Electrical Engineering; Donald Kommers, professor of law, Joseph and Elizabeth Robbie Professor of Government and International Studies, and faculty fellow in the Kellogg Institute for International Studies; Nazareno Rapagnani, assistant provost for information technologies.

Task Force on Strategic Directions in Science and Engineering

Chair: Jeffrey Kantor, vice president, associate provost, and professor of chemical engineering
Members: Frank Incropera, Matthew H.

McCloskey Dean of the College of Engineering and H. Clifford and Evelyn A. Brosey Professor of Mechanical Engineering; Francis Castellino, dean of the College of Science, Kleiderer-Pezold Professor of Biochemistry, and director of the Keck Center for Transgene Research; Ahsan Kareem, professor of civil engineering and geological sciences; Peter Kogge, Ted H. McCourtney Professor of Computer Science and Engineering; Frank Collins, George and Winifred Clark Professor of Biological Sciences; JoEllen Welsh, associate professor of biological sciences; Gary Lamberti, associate professor of biological sciences; Sharon Hammes-Schiffer, assistant professor of chemistry and biochemistry; Yih-Fang Huang, chair and professor of electrical engineering; Peter Burns, assistant professor of civil engineering; Malgorzata Dobrowolska-Furdyna, associate professor of physics; Arvind Varma, Arthur J. Schmitt Professor of Chemical Engineering.

Task Force on Institutes, Departments and Collective Resources in Arts and Letters

Chair: Scott Maxwell, Notre Dame Professor of Psychology

Members: Katherine O'Keeffe, professor of English; Philip Quinn, John A. O'Brien Professor of Philosophy; Dayle Seidenspinner-Nuñez, professor of romance languages and literatures; Guillermo O'Donnell, Helen Kellogg Professor of Government and International Studies; Robin Rhodes, associate professor of art, art history and design; Gail Bederman, associate professor of history; Patrick Geary, Robert M. Conway Director of the Medieval Institute and professor of history; Richard Williams, chair and associate professor of sociology.

Task Force on Increasing Research Funding

Chair: Joan Brennecke, professor of chemical engineering

Members: Neal Cason, professor of physics; William Dwyer, William J. Hank Family Professor of Mathematics; Robert Nelson, chair and professor of aerospace and mechanical engineering; Gerald Iafrate, professor of electrical engineering; Julia Douthwaite, associate professor of romance lan-

guages and literatures; E. Mark Cummings, professor of psychology; Anthony Hyder, associate vice president for Graduate Studies and Research, professor of aerospace and mechanical engineering and professor of physics; Marya Lieberman, assistant professor of chemistry and biochemistry; Marvin Miller, George and Winifred Clark Professor of Chemistry and Biochemistry; Dan Meisel, director of the Radiation Laboratory and professor of physics; Christopher Fox, associate dean of the College of Arts and Letters, director of the Institute for Scholarship in Liberal Arts, and professor of English; Sophia Jordan, librarian.

Task Force on Curricular Innovation

Chair: John Affleck-Graves, chair and professor of finance

Members: Stephen Batill, director of the Hessert Center for Aerospace Research and professor of aerospace and mechanical engineering; Dennis Jacobs, associate professor of chemistry and biochemistry; Eileen Kolman, dean of the First Year of Studies and concurrent assistant professor of mathematics; Bill McDonald, professor of finance and business economics; Rev. Timothy Scully, C.S.C., vice president, senior associate provost, associate professor of government and international studies, and senior faculty fellow in the Kellogg Institute for International Studies; William Wilkie, Al and Eleanor Nathe Professor of Marketing; Catherine Zuckert, professor of government and international studies; Barbara Walvoord, director of the Kaneb Center for Teaching and Learning and concurrent professor of English; Mark McCready, chair and professor of chemical engineering; Alexander Hahn, chair and professor of mathematics, Rev. Hugh Page, Jr., assistant professor of theology; Mary Frandsen, assistant professor of music.

Task Force on Diversity and Community

Chairs: Carol Mooney, vice president, associate provost and professor of law; and Jimmy Gurulé, associate dean of the Law School and professor of law

Members: Carolyn Callahan, associate professor of accountancy; Donald Crafton, chair and professor of film,

television and theatre; Sun-Joo Shin, associate professor of philosophy; Jeffrey Bergstrand, associate professor of finance and business economics, and faculty fellow in the Kroc Institute for International Peace Studies; Vincent Rougeau, associate professor of law; Rev. Austin Collins, C.S.C., chair and associate professor of art, art history and design; Valerie Sayers, professor of English; Donald Sniegowski, associate professor of English; James McKenna, professor of anthropology.

Task Force on Ethics

Chair: Mark Roche, I.A. O'Shaughnessy Dean of the College of Arts and Letters and Rev. Edmund P. Joyce, C.S.C., Professor of German and Russian Languages and Literatures

Members: David Link, Joseph A. Matson Dean of the Law School and professor of law; Rev. Oliver F. Williams, C.S.C., associate professor of management; W. David Solomon, associate professor of philosophy; Paul Weithman, associate professor of philosophy; Jean Porter, professor of theology; Stephen Silliman, associate professor of civil engineering and geological sciences; Rev. James Foster, C.S.C., assistant professional specialist in preprofessional studies; Patrick Murphy, chair and professor of marketing; Ann Tenbrunsel, assistant professor of management; Rudolph Navari, professional specialist in preprofessional studies; C. William Westfall, chair and Francesco Montana Professor of Architecture; Mark Poorman, executive assistant to the president and associate professor of theology; Vittorio Hosle, professor of German and Russian languages and literatures; Naomi Meara, Nancy R. Dreux Professor of Psychology.

Task Force on Enriching Catholic Intellectual Life

Chairs: Kristin Shrader-Frechette, Director of the Program in Science, Technology and Values, Alfred C. DeCrane, Jr., Professor of International Studies in philosophy, and concurrent professor of biological sciences; John Cavadini, chair and associate professor of theology

Members: James Turner, director of the Erasmus Institute and professor of history; John McGreevy, associate pro-

fessor of history; Brian Daley, Catherine F. Huisking Professor of Theology; M. Cathleen Kaveny, associate professor of law; Steven Smith, Robert and Marion Short Professor of Law; Rev. John Jenkins, C.S.C., religious superior of Holy Cross priests and brothers and associate professor of philosophy; Jacek Furdyna, Aurora and Tom Marquez Professor of Physics; Edward Conlon, Edward Frederick Sorin Society Professor of Management; Craig Lent, professor of electrical engineering; Xavier Creary, Charles L. Huisking, Sr., Professor of Chemistry and Biochemistry; A. James McAdams, chair and professor of government and international studies, faculty fellow in the Kroc Institute for International Peace Studies, and faculty fellow in the Kellogg Institute for International Studies; Rev. Richard McBrien, Crowley-O'Brien-Walter Professor of Theology; Doris Bergen, associate professor of history.

Both Scholarships and Tuition Increase

The University of Notre Dame will increase undergraduate scholarship grants by 14 percent and tuition by 5.4 percent for the 1999-2000 academic year.

The sharp rise in scholarship support at Notre Dame continues a decade-long trend in which University-based aid has grown from \$5.4 million in 1989-90 to more than \$23.6 million this year. Notre Dame expects to give about \$8 million to members of the incoming freshman class compared with \$1.2 million to first-year students in 1989-90.

An increase of \$1,130 will bring tuition and fees to \$22,030. Room and board charges will rise \$305 to an average of \$5,630 for a combined cost of \$27,660. The 5.4 percent increase in tuition is the second lowest in 20 years.

In a letter to parents of 1999-2000 undergraduate students, Notre Dame's president, Rev. Edward A. Malloy, C.S.C., wrote: "We have sought to cushion the impact of tuition increases with greater student financial assistance. Indeed, increases in University-

administered scholarship aid in recent years have been far greater than the increases in student costs." Father Malloy emphasized that the University's budget-planning process in the "past few years has moved in the direction of defining the long-term educational priorities of the institution while fostering a greater sense of fiscal responsibility and cost control across the campus."

He also noted that tuition and room and board charges at Notre Dame remain well below those of most comparable private universities.

"We continue to deliver quality at a lower price," he wrote in his letter to parents. "At a time when our student body is at an all-time high in scholastic credentials, when our teacher-scholars are coming from the graduate schools and faculties of the best universities in the world, when our physical facilities provide an outstanding learning environment, we remain very competitive."

Notre Dame has lower total costs than 18 of the universities ranked in the *U.S. News & World Report* top 20, and in a survey of total student charges at more than 100 private universities, Notre Dame ranks 81st, with a cost below both the midpoint and the average for this group.

Graduate School tuition in 1999-2000 will be \$21,930, and tuition in both the Law School and master's programs in business will be \$22,630.

Faculty Notes

Honors

Asma Afsaruddin, assistant professor of Arabic, has been selected as a CASA III fellow at the American University of Cairo, Egypt, for summer 1999 by the Center for Arabic Study Abroad, U.S. Department of Education, funded by the Fullbright Commission and the Mellon Foundation.

Clive Bloom, adjunct assistant professor in the Arts and Letters London Program, had his book, *Gothic Horror*, nominated for the International Horror Guild award for best horror and fantasy reference work of 1998 and the McCalvin Medal of the Library Association of Great Britain for best reference work of 1998.

Jan Lüder Hagens, assistant professor of German and Russian languages and literatures, had his essay "Text and Presentation: How Do They Relate?" nominated for the Essay in Criticism Prize of the Association for Theatre in Higher Education (ATHE) at the Comparative Drama Conference at the University of Florida in Gainesville, Florida, March 26-28.

Richard V. Warner, C.S.C., counselor to the president and director of campus ministry, was elected to a fourth three-year term as a regent at the University of Portland in Portland, Oregon. He was appointed secretary and re-elected to the Board of Directors of Memorial Health System.

Activities

Asma Afsaruddin, assistant professor of Arabic, gave the invited paper "The Ideology of Praise: Tracing Medieval Debates about Leadership in the Manaqib Literature" at the Middle East History and Theory Workshop at the University of Chicago in Chicago, Illinois, April 9.

Klaus-Dieter Asmus, professor of chemistry and biochemistry, presented "Decarboxylation and Aminyl Radical Formation in the Reaction of OH Radicals with Amino Acids" at the national meeting of the American Chemical Society in Anaheim, California, March 21-25.

Daniel M. Chipman, professional specialist in the Radiation Laboratory, presented "Solvent Effects on Free Radical Properties" at the national meeting of the American Chemical Society in Anaheim, California, March 21-25.

Peter Cholak, assistant professor of mathematics, gave the invited talk "The Strength of Ramsey's Theorem for Pairs" in the Logic Seminar at the University of Illinois in Chicago, Illinois, April 6.

Michael Coppedge, associate professor of government and international studies, gave the seminar "Patterns of Diffusion in the Third Wave of Democratization" with Daniel Brinks, at the Hesburgh Center for International Studies at the University of Notre Dame, April 20.

Thomas Cosimano, professor of finance, presented the paper "Ownership of Capital in Monetary Economics and the Inflation Tax on Equity," co-authored with **Ralph Chami**, assistant professor of finance, and **Connel Fullenkamp**, assistant professor of finance and business economics, at Indiana University in Bloomington, Indiana, March 31; and at Purdue University in West Lafayette, Indiana, April 1.

Victor L. Deupi, visiting assistant professor of architecture, gave the public lecture "Architectural Temperance: Thoughts and Observations on Contemporary Classical Architecture and Traditional Urbanism" at the University of Miami School of Architecture in Coral Gables, Florida, April 5.

Alan Dowty, professor of government and international studies and fellow in the Kroc Institute for International Peace Studies, **Gilbert D. Loescher**, professor of government and international studies, fellow in the Kroc Institute for International Peace Studies and fellow in the Kellogg Institute for International Studies, and **Martha Merritt**, assistant professor of government and international studies, presented the current affairs round table "The ABCs of the Kosovo Crisis: What Is Going On, What the World Community Should Do" at the Hesburgh Center for International Studies at the University of Notre Dame, April 7.

Michael S. Driscoll, assistant professor of theology, gave the talk "Baptismal Anointing as Consecration into the Vocation and Mission of Christ" at the Ministries Prayer Breakfast at the Diocese of Joliet in Glen Ellyn, Illinois, April 24.

William G. Dwyer, Hank professor of mathematics, gave the invited lecture "Ohkawa's Theorem" at the Midwest Topology Conference at Northwestern University in Evanston, Illinois, April 10.

Richard W. Fessenden, professor of chemistry and biochemistry and associate director of the Radiation Laboratory, presented "A Study of the Reaction of Hydrated Electrons with Radicals" at the national meeting of the American Chemical Society in Anaheim, California, March 21-25.

Umesh Garg, professor of physics, gave the invited seminar "The Isoscalar Giant Dipole Resonance and Nuclear Incompressibility" at Oak Ridge National Laboratory in Oak Ridge, Tennessee, March 8; and at Florida State University in Tallahassee, Florida, March 12. He presented "Incremental Alignments: A New Tool in the Study of Superdeformed Nuclei" at the Japan Atomic Energy Research Institute in Ibaraki, Japan, March 19. He presented the invited talk "The Isoscalar Giant Dipole Resonance: Where We Stand?" at the RIKEN Symposium and Workshop on Selected Topics in Nuclear Collective Excitations in Saitama, Japan, March 20-24.

Jan Lüder Hagens, assistant professor of German and Russian languages and literatures, presented the paper "Collapsing Towers: Hugo von Hofmannsthal's *Der Turm* as Dramatic Failure" and chaired the session "British Drama of the 16th and 17th Centuries" at the 23rd Comparative Drama Conference at the University of Florida in Gainesville, Florida, March 26-27.

Mary Catherine Hilker, associate professor of theology, gave the panel presentation "William Hill's Reading of the Thomistic Tradition and the Development of Catholic Feminist Theology" at the Symposium on the Thought of Thomas Aquinas in the

Third Millennium in River Forest, Illinois, April 10. She gave the lecture "Theology of Suffering" for the Sharing the Light Adult Education Program in Akron, Ohio, April 15. She gave the panel presentation "The Vocation of the Theologian" to the symposium commemorating Catherine Mowry LaCugna's appointment to the Nancy Reeves Dreux Chair of Theology at the University of Notre Dame, April 20.

William P. Hoye, associate vice president and counsel and concurrent associate professor of law, presented the paper "Legal Issues Affecting Study Abroad Programs: A Model Case Study" at the twentieth annual national conference on Law and Education in Clearwater Beach, Florida, February 14.

Bei Hu, associate professor of mathematics, gave the colloquium talk "Stefan Type of Free Boundary Problems Arising from Industry" at the Department of Mathematics at the University of Toledo in Toledo, Ohio, March 5.

Frank P. Incropera, Brosey professor of mechanical engineering and McCloskey dean of the College of Engineering, gave the Byron Short Memorial Lecture "Laser-Assisted Machining: A Hybrid Material Removal Process for Difficult-to-Machine Materials" at the University of Texas in Austin, Texas, April 8.

Roger F. Jacobs, professor of law, law librarian, director of research in the law library and associate dean for research and information services, was the American Bar Association site advisor for the Cooperative Program for Foreign Study between Boston University School of Law and St. Catherine's College at Oxford University in Oxford, England, February 14-16. He provided a review of the administration and information resources at the Osgoode Hall Law School Library in Toronto, Canada, April 26-30.

Jay LaVerne, professional specialist in the Radiation Laboratory, presented "Spatial Distribution Effects on OH Radical Chemistry in Water" at the national meeting of the American Chemical Society in Anaheim, California, March 21-25.

George A. Lopez, professor of government and international studies and fellow in the Kroc Institute for International Peace Studies, served as the Ford Visiting Scholar in Contemporary Conflict, gave the public presentations "Peace Research and the Dilemma of Contemporary Conflict" and "They Kill People Don't They? The Ethics of Economic Sanctions," and conducted the faculty development workshop "Y2K Gotcha' Down? Try Peace Studies!" at the Peace and World Security Program of the Five College Consortium in Amherst, Massachusetts, March 7-10. He offered remarks on economic sanctions and human rights in the expert symposium on "Human Rights and United States Foreign Policy: A Twenty Year Assessment," sponsored by the United States Institute for Peace, in Washington, D.C., March 17. He served as an invited delegate from the United States at the second Interlaken Seminar on Targeted United Nations Financial Sanctions, sponsored by the Swiss Federal Office for Foreign Economic Affairs, in Interlaken, Switzerland, March 28-31. He gave the paper "Economic Sanctions and Failed States: Too Little, Too Late and Often Too Much" at the conference Failed States: Sources of Prevention, Modes of Response at Purdue University in West Lafayette, Indiana, April 9-11.

Patrick E. Murphy, chairperson and professor of marketing, gave the invited public lecture "Business Ethics and the Celtic Tiger" and presented a series of lectures to undergraduate and masters students on business and marketing ethics at the National University of Ireland in Galway, Ireland, March 1-2.

Karamjit S. Rai, professor of biological sciences, delivered the invited lectures "New Vistas in Mosquito Genetics: From Structure and Organization of Genomes to Cloning of Disease Susceptibility Genes" and "Control of Mosquito Transmitted Human Disease through Genetic Manipulation: Progress and Prospects" in the Department of Molecular Biology and Biochemistry of Guru Nanak Dev University in Amritsar, India, February 16.

Peter Schiffer, assistant professor of physics, gave the invited talk "Studies of Wetting and Drag Force in Granular Media" at the Centennial Meeting of the American Physical Society in Atlanta, Georgia, March 24, 1999.

Patrick J. Schiltz, associate professor of law, conducted the faculty workshop "Making Moral Lawyers," gave the talk "Everything Your Should and Taught the Seminars "Lawyers and the Legal Profession" and "Lawyers and Clients" as a visiting faculty fellow, sponsored by the Keck Focus on Legal Ethics Program, at Cornell Law School in Ithaca, New York, March 31–April 1. He presented the faculty seminar "Can Law Schools Shape Law Students Into Ethical Lawyers?" and spoke to the student body on "Being a Happy, Healthy, and Ethical Lawyer" at Wayne State University Law School in Detroit, Michigan, April 8.

G.N.R. Tripathi, professional specialist in the Radiation Laboratory, presented "Raman Investigation of Radical Reactions in Solution" and "Chemical Interactions and Bulk Solvent Effects on Raman Spectra and Structure of Short-Lived Radicals" at the national meeting of the American Chemical Society in Anaheim, California, March 21–25.

Jody L. Vaccaro, visiting assistant professor of theology, gave the invited lecture "The Seven Deadly Sins" in the Lenten series at St. Michael and All Angels Episcopal Church in South Bend, Indiana, March 10.

Ursula Williams, associate professional specialist and director of the Language Resource Center, gave the invited two-day workshop "Enhancing Foreign Language Teaching with Technology" in the Faculty Development Series sponsored by Houghton-Mifflin and ACTFL at Clemson University in Clemson, South Carolina, April 8–9.

Publications

Howard A. Blackstead, professor of physics, co-authored "Evidence of Granular Superconductivity in $\text{Pr}_{2-x}\text{Ce}_x\text{Sr}_2\text{Cu}_2\text{NbO}_{10}$ " with J.D. Dow, I. Felner, H. Luo and W.B. Yelon, published in the *International Journal of Modern Physics B*, vol. 12, 1998, pp. 3074–3079. He co-authored "Superconductivity in $\text{R}_{2-x}\text{Ce}_x\text{CuO}_4$ -type Compounds" with J.D. Dow and M. Lehmann, published in the *International Journal of Modern Physics B*, vol. 12, 1998, pp. 2965–2970. He co-authored "Implications of Superconductivity in $\text{PrBa}_2\text{Cu}_3\text{O}_7$ " with J.D. Dow, published in the *International Journal of Modern Physics B*, vol. 12, 1998, pp. 2901–2905. He co-authored "PrBa₂Cu₃O_x Polycrystalline Superconductor Preparation" with W.L. Hulst, J.C. Cooley, E.J. Peterson, J.D. Dow, and J.L. Smith, published in the *International Journal of Modern Physics B*, vol. 12, 1998, pp. 3278–3283.

Paul F. Bradshaw, professor of theology, wrote "The Gospel and the Catechumenate in the Third Century," published in the *Journal of Theological Studies*, vol. 50, 1999, pp. 143–152.

Xavier Creary, Huisking professor of chemistry and biochemistry, and **Karen M. Morris**, assistant professional specialist in chemistry and biochemistry, wrote "A New Twist on the Iodine Clock Reaction: Determining the Order of a Reaction," published in the *Journal of Chemical Education*, vol. 76, 1999, pp. 530–531.

Malgorzata Dobrowolska-Furdyna, associate professor of physics, and **Jacek K. Furdyna**, Marquez professor of physics, co-authored "Temperature Dependent PL of Self-Assembled CdSe Quantum Dots" with J.C. Kim, H. Rho, L.M. Smith, H.E. Jackson, and S. Lee, "Spectroscopic Characterization of Self-Assembled CdSe Quantum Dots" with H.E. Jackson, J.C. Kim, H. Rho, L.M. Smith, and S. Lee, "Time-Resolved Photoluminescence of CdSe Quantum Dots" with L.M. Robinson, L.M. Smith, J.C. Kim, H.E. Jackson, and S. Lee, "Time-Resolved Spatial Imaging of Excitons in Self-Assembled CdSe/ZnSe Quantum Dot Structures" with T.B.

Sun, J.C. Kim, H.E. Jackson, L.M. Smith, and S. Lee, "Excitonic Properties of CdSe Submonolayers in ZnSe" with M. Kim and S. Lee, and "Micro-Raman Scattering from Self-Assembled CdSe Quantum Dots" with H. Rho, J.C. Kim, L.M. Smith, H.E. Jackson, and S. Lee, presented at the meeting of the American Physical Society in Atlanta, Georgia, March 20–26.

Jan Lüder Hagens, assistant professor of German and Russian languages and literatures, wrote "Text and Presentation: How Do They Relate?," published in *Text and Presentation*, vol. 19, 1998, pp. 52–62.

Gregory V. Hartland, assistant professor of chemistry and biochemistry, co-authored "Comment on 'Optically Induced Damping of the Surface Plasmon Resonance in Gold Colloids'" with Jose H. Hodak and Ignacio Martini, published in *Physical Review Letters*, vol. 82, 1999, p. 3188.

Frank P. Incropera, Brosey professor of mechanical engineering and McCloskey dean of the College of Engineering, co-authored "Laser-Assisted Machining of Difficult-to-Machine Materials" with J.C. Rozzi, F.E. Pfefferkorn, S. Lei, and Y.C. Shin, published in *Proceedings of the 5th ASME/JSME Thermal Engineering Joint Conference*, San Diego, California, March 15–19, 1999, Paper AJTE-6529.

Prashant V. Kamat, professional specialist in the Radiation Laboratory, co-authored "Radiation-Induced Catalysis on Oxide Surfaces: Degradation of Hexachlorobenzene on g-Irradiated Alumina Nanoparticles" with George A. Zacheis and Kimberly A. Gray, published in *The Journal of Physical Chemistry B*, vol. 103, no. 12, 1999, pp. 2142–2150.

Ahsan Kareem, professor of civil engineering and geological sciences, co-authored "Simulation of Ringing in Offshore Systems Under Viscous Loads" with K. Gurley, published in the *Journal of Engineering Mechanics*, ASCE, vol. 124, no. 5, 1998, pp. 582–586. He co-authored "Frequency-Domain Response Analysis of an Offshore Platform in a Non-Gaussian Random

Wave Field" with J. Hsieh and M. Tognarelli, published in the *Journal of Engineering Mechanics*, ASCE, vol. 124, no. 6, 1998, pp. 668-683. He wrote "Correlation Structure of Random Pressure Fields," published in the *Journal of Wind Engineering and Industrial Aerodynamics*, nos. 69-71, 1998, pp. 507-576. He co-authored "Stochastic Response of Offshore Platforms by Statistical Cubicization, a Discussion" with M.A. Tognarelli and J. Zhao, published in the *Journal of Engineering Mechanics*, ASCE, vol. 124, no. 6, 1998, pp. 699-700. He co-authored "A Stochastic Model of Ringing in Offshore Structures" with K. Gurley, Weisman, and M. Grigoriu, published in *Proceedings of the ASCE Engineering Mechanics Conference*, San Diego, California, 1998. He co-authored "Simulation of Non-Gaussian Pressure Fluctuations on Building Envelopes" with K. Gurley, published in *Proceedings of the ASCE Engineering Mechanics Conference*, San Diego, California, 1998. He co-authored "Modeling of Nonlinear Aerodynamic Drag Loading on Structures" with M. Tognarelli, published in *Proceedings of the ASCE Engineering Mechanics Conference*, San Diego, California, 1998. He wrote "Wind Effects on Offshore Structures," published in *Proceedings of the Jubileum Conference on Wind Effects on Buildings and Structures*, Gramado, Brazil, 1998, pp. 173-200.

Marya Lieberman, assistant professor of chemistry and biochemistry, co-authored "Synthesis and Characterization of Functionalized Silicon Phthalocyanines for Fabrication of Self-Assembled Monolayers" with Zhiyong Li, published in *Supramolecular Science*, vol. 5, 1999, pp. 485-489.

George A. Lopez, professor of government and international studies and fellow in the Kroc Institute for International Peace Studies, wrote "More Ethical Than Not: Sanctions As Surgical Tools," published in *Ethics and International Affairs*, vol. 13, no. 1, 1999, pp. 143-148.

Scott Mainwaring, executive director of the Kellogg Institute for International Studies and Conley professor of government and international studies, wrote *Rethinking Party Systems in the*

Third Wave of Democratization: The Case of Brazil. Stanford, California: Stanford University Press, 1999, xix + 390 pages.

Patrick E. Murphy, chairperson and professor of marketing, wrote "Character and Virtue Ethics in International Marketing: An Agenda for Managers, Researchers and Educators," published in the *Journal of Business Ethics*, vol. 18, January 1999, pp. 107-124.

Terrence W. Rettig, associate professor of physics, co-authored "Carbonyl Sulfide in Comets C/1996 B2 (Hyakutake) and C/1995 01 (Hale-Bopp): Evidence for an Extended Source in Hale-Bopp" with N. Russo, M. DiSanti, M. Mumma, and K. Magee-Sauer, published in *Icarus*, vol. 135, 1998, pp. 377-388. He co-authored "Tidal Disruption of Strengthless Rubble Piles — A Dimensional Analysis" with Joseph M. Hahn and, published in *Planetary and Space Science*, vol. 46, no. 11/12, 1999, pp. 1677-1682.

Sandra Vitzthum, assistant professor of architecture, wrote "Houses Made of Straw," published in *Vermont Magazine*, March/April 1999, pp. 46-51.

Administrators' Notes

Honors

Iris Outlaw, director of multicultural student affairs, was elected secretary of the American Association for Higher Education's Black Caucus Executive Board for the term 1999-2001 during the March AAHE National Conference in Washington, D.C., March 20-23.

Laura Strunk, chef's apprentice, **Giuseppe Macerata**, chef's apprentice, and **Andy Thistlethwaite**, chef's apprentice, earned silver medals in the regional culinary competition of the American Culinary Federation in Wichita, Kansas, March 21.

Awards Received and Proposals Submitted

In the period March 1, 1999, through March 31, 1999.

AWARDS RECEIVED

| Category | Renewal | | New | | Total | |
|--------------------------|----------|----------------|----------|---------------|----------|----------------|
| | No. | Amount | No. | Amount | No. | Amount |
| Research | 8 | 475,067 | 39 | 3,840,594 | 47 | 4,315,661 |
| Facilities and Equipment | 0 | 0 | 0 | 0 | 0 | 0 |
| Instructional Programs | 0 | 0 | 0 | 0 | 0 | 0 |
| Service Programs | 0 | 0 | 4 | 10,714 | 4 | 10,714 |
| Other Programs | <u>2</u> | <u>110,155</u> | <u>3</u> | <u>30,465</u> | <u>5</u> | <u>140,620</u> |
| Total | 10 | 585,222 | 46 | 3,881,773 | 56 | 4,466,995 |

PROPOSALS SUBMITTED

| Category | Renewal | | New | | Total | |
|--------------------------|----------|---------------|----------|---------------|----------|---------------|
| | No. | Amount | No. | Amount | No. | Amount |
| Research | 10 | 827,071 | 20 | 3,861,016 | 30 | 4,688,087 |
| Facilities and Equipment | 0 | 0 | 0 | 0 | 0 | 0 |
| Instructional Programs | 1 | 381,229 | 1 | 50,000 | 2 | 431,229 |
| Service Programs | 0 | 0 | 0 | 0 | 0 | 0 |
| Other Programs | <u>1</u> | <u>14,700</u> | <u>2</u> | <u>67,000</u> | <u>3</u> | <u>81,700</u> |
| Total | 12 | 1,223,000 | 23 | 3,978,016 | 35 | 5,201,016 |

Awards Received

In the period March 1, 1999, through March 31, 1999.

AWARDS FOR RESEARCH

Aerospace and Mechanical Engineering

Flint O. Thomas and Robert C. Nelson

Unsteady Aspects of High-Lift Flows
National Aeronautics and Space Administration
\$27,000 10 months

American Studies

Susan Ohmer

J. Walter Thompson Company Grant
Duke University
\$350 12 months
Helm Fellowship
Indiana University at Bloomington
\$900 12 months

Art, Art History and Design

Robert Haywood

Intervention: Art, Happenings & Cultural Politics (1958-1970)
The Getty Grant Program
\$35,000 12 months

Biological Sciences

Frank H. Collins and David W. Severson

Malaria Control by Genetic Manipulation of Vectors
National Institutes of Health
\$623,487 12 months

Crislyn D'Souza-Schorey

Regulation of Huntingtin Transport
Hereditary Disease Foundation
\$82,100 12 months

John G. Duman

Proprietary Info Agreement — Antifreeze Protein Research
21st Century Medicine, Inc.
\$6,250 12 months

Douglas Fishkind

Structural Dynamics of Actin-Myosin Function in Cytokinesis
National Science Foundation
\$109,476 24 months

David M. Lodge and Jeffrey L. Feder

Crayfish as a Model Exotic Species
Purdue University
\$23,000 24 months

Martin Tenniswood

Apoptosis and Tumor Invasion in Breast Cancer
Department of the Army
\$88,269 13 months

Martin Tenniswood and JoEllen Jones Welsh

Control of Apoptosis by IFG-1 in Prostate and Breast
National Institutes of Health
\$232,639 12 months

JoEllen Jones Welsh

Regulation of Osteoblast Apoptosis by Vitamin D
Department of Agriculture
\$55,478 12 months

Civil Engineering and Geological Sciences

Robert B. Fleischman

Industrial Match Contribution to NSF CAREER #CMS97-33162
American Institute of Steel Construction, Inc.
\$5,000 40 months
Industrial Match Contribution to NSF CAREER #CMS97-33162
Steel Founders Society of America
\$3,000 43 months

Yahya C. Kurama

REU Supplement
National Science Foundation
\$10,000 42 months

Stephen E. Silliman

An REU Site in Civil Engineering at Notre Dame
National Science Foundation
\$53,500 36 months

Chemical Engineering

Mark J. McCready, Hsueh-Chia Chang, et al.

Fundamental Processes of Atomization
National Aeronautics and Space Administration
\$98,000 48 months

Albert E. Miller

A Sealing Solution for Anodized Aluminum with Low Cr (VI)
Department of the Navy
\$10,000 36 months

Arvind Varma

REU Supplement for NSF Grant CTS99-00357
National Science Foundation
\$10,000 12 months
REU Supplement for NSF Grant CTS-9529172
National Science Foundation
\$5,000 39 months
Mechanistic Studies of Combustion Synthesis
National Science Foundation
\$115,000 12 months

Chemistry and Biochemistry

Francis J. Castellino

Blood Coagulation Protein-Metal Ion-Lipid Interactions
National Institutes of Health
\$292,067 12 months

Sharon Hammes-Schiffer

Quantum Effects in the Simulation of Proton Transfer
National Science Foundation
\$66,000 48 months

Marya Lieberman, Craig S. Lent, et al.

Molecular Electronics Based on Quantum-Dot Cellular Automata
Navy/Defense Advanced Research Projects Agency
\$654,432 24 months

Victoria Ploplis

Pathological Consequences of the Plasminogen System
National Institutes of Health
\$259,405 12 months

Computer Science and Engineering

Danny Z. Chen

Theoretical and Practical Solutions
National Science Foundation
\$50,000 48 months

Nikos Chrisochoides

Application-Driven Approach for Teraflop/Petaflop Machines
National Science Foundation
\$31,250 12 months

Vincent W. Freeh

CAREER: Collaborative Memory
National Science Foundation
\$31,250 12 months

Institute for Educational Initiatives

Maureen T. Hallinan

Changing High School Class Schedules
Spencer Foundation
\$35,000 12 months

Electrical Engineering

Panos J. Antsaklis

Travel Grant for HS '99 — Hybrid Systems Workshop (Netherlands)
Department of the Army
\$10,000 12 months

Douglas C. Hall

Model 2010 Upgrade
Metricon Corporation
\$10,800 36 months
Semiconductor Heterostructure Wafers
Motorola
\$10,000 36 months

James L. Merz, Gary H. Bernstein, et al.

Silicon Nanoelectronics
Navy/Advanced Research Projects Agency
\$231,870 51 months

Wolfgang Porod and Craig S. Lent

Nanoelectronics
Arizona State University
\$156,888 36 months

Ken D. Sauer

Tomography in Nondestructive Testing
National Science Foundation
\$15,000 36 months

Graduate School

Anthony K. Hyder

NATO Advanced Studies Institute on Multisensor Data Fusion
Department of the Navy
\$125,000 24 months

Mathematics

Joachim J. Rosenthal

Algebraic Methods in Systems Theory
National Science Foundation
\$35,000 36 months

Mei-Chi Shaw

Partial Differential Equations and Several Complex Variables
National Science Foundation
\$20,848 24 months

Philosophy

Kristen Shrader-Frechette

Nuclear Technology and the Ethics of Worker Radiation Risk
National Science Foundation
\$224,052 36 months

Physics

Albert-László Barabási

Driven Interfaces in Random Media
National Science Foundation
\$51,000 36 months

Grant J. Mathews

Gravity Waves and Binary Neutron Star Hydrodynamics
National Science Foundation
\$50,000 36 months

Peter E. Schiffer

Novel Low Temperature Behavior in Materials
National Science Foundation
\$50,000 36 months
Instrumentation for Studies of Frustrated Magnets
Department of the Army
\$142,710 12 months

Michael C. Wiescher

a-Induced Reactions in Red Giants
National Science Foundation
\$18,400 24 months

Psychology**Bradley S. Gibson**

Attentional Control in Vision
National Science Foundation
\$54,970 12 months

Laura Radvansky

Interpreting Spatial Relations
National Science Foundation
\$52,188 24 months

Theology**Mary Rose D'Angelo**

Early Christian Sexual Politics and Roman Family Values
Association of Theological Schools
\$44,082 12 months

AWARDS FOR SERVICE PROGRAMS**Center for Pastoral Liturgy****Sr. Eleanor Bernstein, C.S.J.**

Center for Pastoral Liturgy
Various Others
\$2,279 1 month

Center for Pastoral Liturgy
Various Others
\$802 1 month

Center for Pastoral Liturgy
Various Others
\$1,820 1 month

Center for Pastoral Liturgy
Various Others
\$5,813 1 month

AWARDS FOR OTHER PROGRAMS**Alliance for Catholic Education****Rev. Timothy R. Scully, C.S.C., and George M. Pressley**

Learn and Serve America: Higher Education
Corporation for National Service
\$100,000 10 months

Graduate School**Peter Diffley**

Fellowship for Elizabeth Groppe-Sniegocki
Dolores Zohrab Liebmann Fund
\$10,155 12 months

Fellowship for Christine Caldwell
Dolores Zohrab Liebmann Fund
\$10,155 12 months

Fellowship for Kimberly Anne Wallace
Dolores Zohrab Liebmann Fund
\$10,155 12 months

Fellowship for Rachel Koopmans
Dolores Zohrab Liebmann Fund
\$10,155 12 months

Proposals Submitted

In the period March 1, 1999, through March 31, 1999.

PROPOSALS FOR RESEARCH**Aerospace and Mechanical Engineering****Mohammed Gad-el-Hak**

Nonlinear Perturbations and Lie Group Theory
National Research Council
\$2,750 2 months

Eric L. Jumper

Fluid-Optic Interactions III
Department of the Air Force
\$338,802 36 months

Robert C. Nelson

Asymmetric Wing Stall
Department of the Navy
\$230,927 29 months

Steven R. Schmid and James J. Mason

High Strain Rate Rheology of Metal Forming Lubricants
National Science Foundation
\$426,409 48 months

James P. Thomas and John E. Renaud

Optimizing the Mechanical Performance of SFF
Components
National Science Foundation
\$323,768 36 months

Art, Art History and Design**Robin F. Rhodes**

Reconstructing the Early Temple of Apollo at Corinth
American School of Classical Studies at Athens
\$30,000 12 months

Biological Sciences

Adriana Costero-Saint and David W. Severson

Genetics of *Aedes albopictus* Exposed to Dengue Virus
National Institutes of Health
\$0 12 months

Mark A. Schneegurt

Support for Cyanosite, a Web-server on Cyanobacteria
Foundation for Microbiology
\$2,286 24 months

Martin Tenniswood

Anti-estrogens and Invasion
Komen Breast Cancer Foundation
\$250,000 24 months
Genesis of the Invasive Phenotype in Prostate Cancer
Department of the Army
\$548,625 36 months
Clusterin Biogenesis in Breast Cancer Growth and Regression
Komen Breast Cancer Foundation
\$30,000 24 months

Civil Engineering and Geological Sciences

Peter C. Burns

REU Supplement
National Science Foundation
\$6,125 12 months

Jeremy B. Fein, Bruce A. Bunker, et al.

BIOCOMPLEXITY: Quantifying the Effects of Bacteria on Silicate
National Science Foundation
\$206,574 36 months

Clive R. Neal

Analysis of Kerguelen Plateau Basement
National Science Foundation
\$20,870 12 months

Stephen E. Silliman

Planning Visit to Benin
National Science Foundation
\$3,200 8 months
Health-Based Risk Assessment for Wellhead Management
National Science Foundation
\$179,237 36 months

Chemical Engineering

Edward J. Maginn

Molecular Simulations in Engineering Education and Research
National Science Foundation
\$75,000 12 months
Adsorption of Organic Liquids on Microporous Materials
National Science Foundation
\$5,000 12 months

Chemistry and Biochemistry

Thomas L. Nowak

NMR Studies of Metals in Kinases and Related Enzymes
National Institutes of Health
\$325,411 12 months

Richard E. Taylor

Myriaporones: Synthetic and Biological Studies
American Cancer Society
\$387,336 36 months

Computer Science and Engineering

Danny Z. Chen

Advanced Routing Concepts
Lockheed Martin Corporation
\$25,000 14 months

Electrical Engineering

Patrick J. Fay

REU Supplement to DUE98-50988
National Science Foundation
\$5,500 12 months

Thomas E. Fuja

Performance of Fed Std Vocoders in Multimedia Networks
National Security Agency
\$200,000 42 months

Douglas C. Hall

Year 4 CAREER Award Matching Funds
National Science Foundation
\$23,665 12 months

Physics

James A. Glazier

NSF Supplement for REU for Grant CTS-9601691
National Science Foundation
\$9,375 12 months

Terrence W. Rettig

REU Program in Physics 1999
National Science Foundation
\$13,193 12 months

Program of Liberal Studies

Walter J. Nicgorski

Dimensions of Cicero's Thought
American Philosophical Society
\$30,000 12 months
Dimensions of Cicero's Thought
Earhart Foundation
\$15,000 12 months

Radiation Laboratory**Guillermo J. Ferraudi**

Homogeneous Catalysis of the Photochemical Reduction
of CO₂

Department of Energy

\$634,829 36 months

Prashant V. Kamat

Fundamental Investigation of Photocatalytic Water
Splitting

Pacific Northwest National Laboratory

\$339,205 36 months

PROPOSALS FOR INSTRUCTIONAL PROGRAMS**Office of Special Instructional Projects and Activities****Dorine Blake-Smith**

Upward Bound

Department of Education

\$381,229 12 months

Psychology**John G. Borkowski**

"How Parents Matter"

Robert Wood Johnson Foundation

\$50,000 1 month

PROPOSALS FOR OTHER PROGRAMS**Biological Sciences****Scott D. Bridgham**

Effects of Fertilization on Nutrient Dynamics

National Aeronautics and Space Administration

\$22,000 12 months

Kellogg Institute for International Studies**Andrew S. Reynolds and Scott P. Mainwaring**

Constitutional Design

U.S. Institute of Peace

\$45,000 18 months

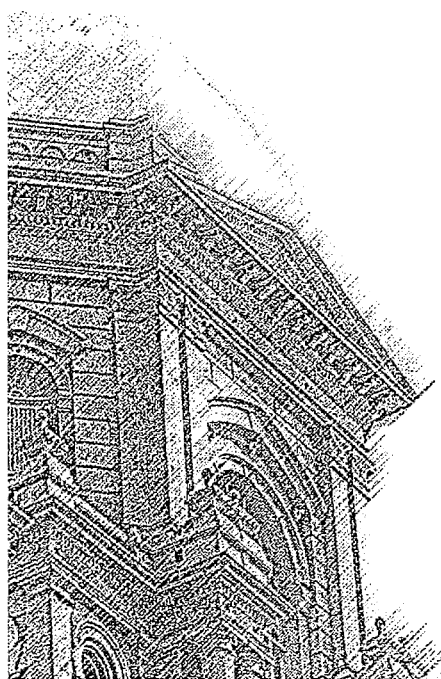
Physics**Albert-László Barabási**

Driven Interfaces in Random Media

National Science Foundation

\$14,700 36 months

Notre Dame Report



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Melissa Pluta, Editor
Marten Schalm, Designer
Erin Gallavan, Publications Assistant
Hilary Baldwin, Indexer
Publications and Graphic Services
502 Grace Hall
Notre Dame, IN 46556-5612
(219) 631-4633
e-mail: ndreport.1@nd.edu

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