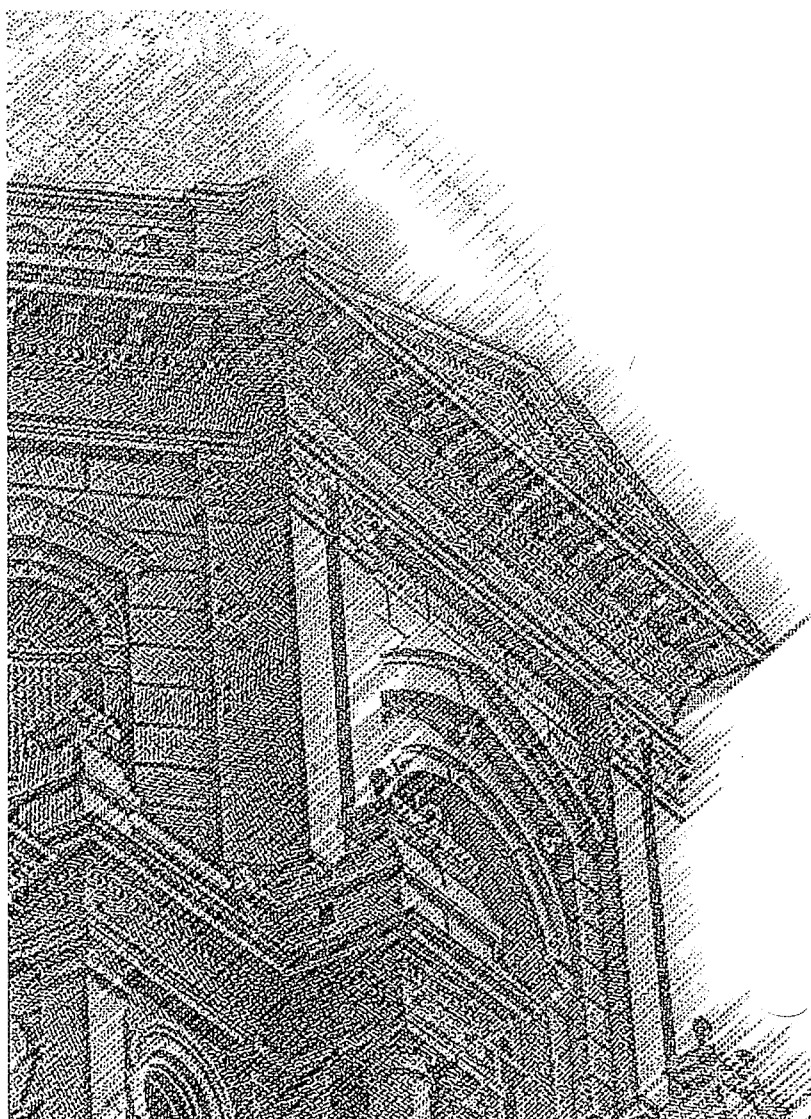


# Notre Dame Report



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# Faculty Notes

## Honors

**E. Mark Cummings**, Notre Dame Professor of Psychology, was appointed to the Risk, Prevention, and Health Behavior Study Section of the Center for Scientific Review.

**Rev. Virgilio P. Elizondo**, visiting professor of theology, visiting professor of Latino Studies, and Kellogg fellow, received the Hispanic Heritage Award for his contributions to education, Washington, D.C., Sept. 20.

**Dirk M. Guldi**, associate professional specialist in the Radiation Laboratory, was selected to serve on the International Advisory Board of *Physical Chemistry Chemical Physics* for a two-year period beginning in January 2003.

**Dennis Jacobs**, professor of chemistry, has been named the U.S. Professor of the Year for research and doctoral universities by the Council for Advancement and Support of Education (CASE) and the Carnegie Foundation for the Advancement of Teaching.

**Hon. John M. Marnocha**, adjunct assistant professor of law, was recently reelected St. Joseph County Superior Court Judge; was reelected chief judge of the St. Joseph Superior Court; and was elected to serve a second term on the Indiana Judicial Conference's board of directors.

**Ralph M. McInerny**, Grace Professor of Medieval Studies, director of the Maritain Center, and professor of philosophy, was appointed to the advisory board of the Rivista Anuario Filosofico, Univ. de Navarra; was chosen as one of the speakers on the Liberty Fund, Indianapolis, Intellectual Portrait Series; and received the American Maritain Association Humanities Award at the annual meeting, Princeton Univ.

**Steven R. Schmid**, associate professor of aerospace and mechanical engineering, was appointed to the organizing committee for the 2005 International Conference on Materials and Processes held by the International Executive Committee for the Japan Society of Mechanical Engineers/American Society of Mechanical Engineers.

**Michael Wiescher**, Freimann Professor of Physics, was asked to serve on the International Advisory Committee

for the eighth International Conference on Nuclei in the Cosmos, to be held in Vancouver, Canada; and is the recipient of the American Physical Society Hans Bethe Prize for 2003.

**Charles K. Wilber**, emeritus professor of economics and Kroc Institute fellow, has been elected president-elect (2002) of the Association for Social Economics. He also received the Rev. Thomas Oddo, C.S.C., Outstanding Service Award from the Univ. of Portland.

**Samir Younés**, associate professor of architecture and director of Rome Studies, has been named a member of the Comitato Scientifico, which advises the Ministero dei Beni e delle Attività Culturali in Italy on matters concerning museums, the arts, and archaeology. His role within the Comitato is to advise on architectural matters. The 12-member Comitato of international scholars will advise the ministry on enriching the art collections of the State, restoration of buildings and works of art, enhancing the museum needs in Italy, affecting legislation in Parliament, and raising funds for sundry projects.

## Activities

**Sudhir Aki**, research assistant professor of chemical engineering, coauthored "Carbon Dioxide Capture by Ionic Liquids" with J.L. Anthony, **Joan F. Brennecke**, professor of chemical engineering, and **Edward J. Maginn**, associate professor of chemical engineering; "Supported Ionic Liquid Membranes for Gas Separations," coauthored with J.L. Anthony, Edward J. Maginn, and Joan F. Brennecke; and "Liquid-Liquid Equilibria of Water and Organic Solvents in Ionic Liquids," coauthored with J.M. Crosthwaite, Edward J. Maginn, and Joan F. Brennecke, all presented at the American Institute of Chemical Engineers Conference in Indianapolis in November.

**Albert Laszlo Barabási**, Hofman Professor of Physics, presented an invited talk on "The Structure and Robustness of Metabolic and Protein Interaction Networks" at the American Society of Human Genetics 52nd annual meeting, Baltimore, Oct. 28; and gave an invited keynote address "The Architecture of

Complexity" at the GME Graduate Student Conference 2002, Notre Dame, Oct. 25.

**Joan F. Brennecke**, professor of chemical engineering, coauthored "Thermodynamic Properties of Ionic Liquid / Gas Mixtures from Molecular Simulations" with J.K. Shah, T. I. Morrow, and **Edward J. Maginn**, associate professor of chemical engineering, presented at the American Institute of Chemical Engineers Conference in Indianapolis in November.

**Hsueh-Chia Chang**, Bayer Corporation Professor of Chemical Engineering, coauthored "Knudsen Slip for Gases in Micro- and Nano-channels: Effects of Wall Morphology and Inertia," with G. Arya, and **Edward J. Maginn**, associate professor of chemical engineering, presented at the American Institute of Chemical Engineers Conference in Indianapolis in November.

**Peter Cholak**, associate professor of mathematics, presented a logic colloquium titled "Orbits of the Computably Enumerable Sets" at Cornell Univ., Oct. 22-23.

**Kevin J. Christiano**, associate professor of sociology, moderated a bilingual session "La Paix des braves et Sanarutik: Deux ententes historiques pour un nouveau modèle en matière des relations avec les autochtones" at the 13th biennial Conference of the American Council for Québec Studies, Mobile, Ala., Oct. 24-27, where he introduced two principal speakers, chaired a session on "Québécois(es) in Diaspora: The Franco-American Experience," and served as program chair for the conference. He appeared as an invited panelist on "The Compatibility of Social Science and Religion" at the annual meeting of the Society for the Scientific Study of Religion, Salt Lake, Oct. 31 through Nov. 3, where he also chaired a research session on "Religious Pluralism."

**Kirsten M. Christensen**, assistant professor of German, presented the invited talk "The Poetics of Piety: Late-Medieval German Catechisms as Literature" at the Second Biennial German-American Medieval Conference, Göttingen, Germany, Oct. 18; and presented "Arousing Interest and Illuminating Relevance in the Medieval Literature Classroom" at the South Central Modern Language Association annual meeting, Austin, Nov. 1.

**E. Jane Doering**, assistant professional specialist in Arts and Letters, gave an invited presentation "Déclaration des droits et des devoirs: problèmes contemporains à la lumière de Simone Weil" to L'Association pour l'étude de la pensée de Simone Weil in Paris, November.

**James Dougherty**, professor of English, discussed his paper "Presence, Silence, and the Holy in Denise Levertov's Poems," at a meeting of the American Literature and Religion Project, The National Humanities Center (North Carolina), on Oct. 26.

**Julia Douthwaite**, professor of Romance languages and literatures, fellow of the Nanovic Institute, and director of the Notre Dame Study Abroad program in France, presented "Les dangers de l'expérimentation: Le Roman et la science (le cas de Rousseau)" at a Round table on "Roman et savoirs: Les changements discursifs épistémologiques et l'émergence des sciences humaines," Univ. du Havre, France, on Nov. 15.

**Rev. Virgilio P. Elizondo**, visiting professor of theology, visiting professor of Latino Studies, and Kellogg fellow, participated in "Hispanic Churches and Civic Responsibility" as chief investigator (along with J. Miranda for the *Evangelicos*) for the two-year national study together with the "Evangelicos" on the Hispanic Churches in the U.S.A. and public responsibility; directed and produced a half-hour special on "The Truth of Juan Diego," released in English and Spanish; narrated the Juan Diego canonization ceremonies from the Basilica of Our Lady of Guadalupe in Mexico to the international audience of RADIO UNICA; interviewed for RADIO VATICAN, CLARAVISION, and UNIVISION; consulted with the U.S. Bishops Committee on Priestly Life, Washington, D.C., in September; consulted with Pew's Forum on Public Policy, New York, October; consulted with Future Publications from Third World and U.S. Latinos - Ediciones Queriniana, Brescia, Italy, in August; and consulted with the Univ. of Notre Dame Fellowship of Young Theologians, The Work Ahead, Nov. 14. He presented "Teaching and Worship in a Multicultural Setting" for the Catholic Archdiocese of Los Angeles conference for elementary Catholic school teachers,

Aug. 28; "Vocations in a Church of Many Faces" at the National Religious Vocation Conference in San Antonio, Sept. 7; "Catholic Preaching in Today's American Culture" for the Catholic Coalition on Preaching, Philadelphia, Sept. 18; "The Status and Future of Latino Theology" at the Catholic Theological Union, Chicago, Oct. 9; "The Gifts and Challenges of the Multicultural Parish" for the Diocesan Congress of Ministries of Sacramento, Oct. 12; "Devotional Piety and Public Discourse" at the National Parish Leadership Conference, Louisville, Nov. 8; "Culture and Poverty" at the Univ. of Notre Dame conference on Christian Thought and Option for the Poor, Nov. 12; and "The Changing Face of the U.S. Church" at the Congress on Ministries, Diocese of Richmond, Va., Nov. 15.

**Guillermo J. Ferraudi**, professional specialist in the Radiation Laboratory, presented "Photochemical and Photophysical Processes in Biquinoline-centered and Metal to Ligand Charge Transfer of Ru(II)-4,4'-bipyridine-Re(I) and Ru(II)-(pyrazine)-Re(I) Dyads" on Oct. 29; and "The NiII(Napho2[14]-2,4,6,9,11,13-hexaene N4) - catalyzed Photoreduction of CO<sub>2</sub> to CO. A Pulse-Radiolytic and Flash-Photochemical Study of the Reaction Intermediates" on Nov. 6, each at the Univ. of Santiago, Chile.

**Michael Francis**, assistant provost for international development and professor of political science, served as chair and discussant for a panel on "Contemporary Issues in the Americas" at the annual meeting of the International Studies Association-West in Las Vegas, Oct. 12.

**Li Guo**, assistant professor of Classics, presented "'A Boat Named Good Tidings': The Red Sea Trade in the 13th Century in Light of the Quseir Documents" at The Red Sea Studies Project, "Red Sea Trade and Travel" Weekend, the British Museum, Oct. 6.

**Richard A. Jensen**, professor and chair of Economics, concurrent professor of finance and business economics, and fellow, Kellogg Institute, presented "Some Dynamic Aspects of Economic Policy for Invasive Species" at the Fourth Heartland Environmental and Resource Economics Conference, Iowa State Univ., Sept. 23; and "The Disclosure and Licensing of University Inventions: The

Best We Can Do with the S\*\*t We Get to Work With" at the Conference on the Economics of Intellectual Property at Universities, Univ. of North Carolina at Greensboro, Nov. 15.

**Ian Kuijt**, associate professor of anthropology, presented "Excavations at Neolithic Dhra', Jordan: New Insights into the Forager-Farmer Transition Along the Dead Sea" with B. Finlayson at the annual meeting of the American Schools of Oriental Research, Toronto, in November; "Scale and Regional Neolithic Landscapes: Population Aggregation, Community Size, and Settlement Context" at the Domesticating Space: Landscape and Site Structure in the Prehistoric Near East Conference, Toronto, in November; and "Geomagnetic Surveys at the Pre-Pottery Neolithic A Period Site of Dhra', Jordan: Results and Potential," with **M. Schurr**, associate professor of anthropology and B. Finlayson, at the First International Conference on Science and Technology in Archaeology and Conservation, Amman, Jordan, in August.

**David C. Leege**, professor emeritus of political science, presented "Religion, War, Patriotism, and American Political Campaigns" to the ALOA Lutherhostel at Camp Arcadia, Mich., Aug. 20 and 27; served as the discussant for the panel on "Religious Groups and Politics After September 11" at the American Political Science Association annual meetings, Boston, Aug. 30; and presented "The Politics of Cultural Differences: Campaign Strategies to Control the Size and Composition of the Electorate" to the proseminar on political psychology at the Univ. of Minnesota, Nov. 21.

**Edward J. Maginn**, associate professor of chemical engineering, presented the following invited lectures: "Molecular Simulation of Fluids in Nanopores" at the Yangtze Conference on Fluids and Interfaces, Nanjing / Choingqing, China, Oct. 12-18; "Molecular Simulation of Wall Slip in Confined Fluids" at the Rheology Research Center, Univ. of Wisconsin, Madison, Oct. 25; "Molecular Modeling of Room Temperature Ionic Liquids" for the Air Force Office of Scientific Research Workshop on Energetic Ionic Liquids, The Executive Conference and Training Center, Dulles, Va., Oct. 9; "Computing the Viscosity of Hydrocarbon / Alcohol Mixtures," NIST Fluid Properties Challenge, American

Institute of Chemical Engineers Meeting, Indianapolis, Nov. 3; and "In Search of Environmentally Benign Solvents: Are Ionic Liquids the Right Solution?" at the NDEER Symposium, Univ. of Notre Dame, Nov. 13. He also chaired a session titled "Thermodynamics of Polymers II" at the American Institute of Chemical Engineers Conference in Indianapolis in November.

**Ralph M. McInerny**, Grace Professor of Medieval Studies, director of the Maritain Center, and professor of philosophy, presented "Maritain and Thomas Aquinas" at the Maritain Association meeting, Princeton Univ., Oct. 17; "Chester-ton at Notre Dame" at the Notre Dame Center for Ethics and Culture, Nov. 11; and "From Images and Shadows to Truth" at St. Thomas More College, Fort Worth, Nov. 16.

**Juan Migliore**, professor of mathematics, presented "On the Hilbert Functions of Level Algebras" in the special session on commutative algebra at the American Mathematical Society sectional meeting in Orlando, Nov. 10.

**Philip Mirowski**, Koch Professor of Economics and the History and Philosophy of Science, had two separate sessions devoted to his recent book *Machine Dreams* where he responded to papers on his work. at the meetings of the International Network on Economic Methodology, Stirling, Scotland, Sept. 1-2; and at the meetings of the Southern Economic Association, New Orleans, Nov. 24. His book was also the subject of a review essay in the *London Review of Books*, Oct. 31.

**Karen M. Morris**, assistant professional specialist in chemistry and biochemistry, presented "Classroom Experiments to Reinforce Introductory Level Chemical Engineering Concepts" with A. Minerick, at the annual AIChE convention "Innovative Laboratory Experiments" session, in Indianapolis, Nov. 5.

**Rudolph M. Navari**, associate dean of the College of Science, presented "Antimicrobial Use in Patients with Advanced Cancer Receiving Hospice Care" at the 14th Annual Dorothy MacLean Conference, Univ. of Chicago, Nov. 15-17.

**James S. O'Rourke IV**, associate professional specialist in management and administrative sciences, presented "The

Strategic Value of Reputation" to Chairman and CEO Phil Condit and the senior team of the Boeing Company, Chicago, Nov. 12.

**Morris Pollard**, professor emeritus and director of the Lobund Laboratory, presented "Prostate Cancer in Lobund-Wistar [L-W] Rats" at the American Association for Cancer Research "Frontiers in Cancer Prevention Research" in Boston, Oct. 15.

**Karen Richman**, assistant professor of anthropology, presented "Awakening the Protestant Devil" at the panel "Representations of Voodoo, Representing Voodoo," 101st annual meeting of the American Anthropological Association, New Orleans, Nov. 20-24.

**Steven R. Schmid**, associate professor of aerospace and mechanical engineering, served on the International Executive Committee for the Japan Society of Mechanical Engineers/American Society of Mechanical Engineers International Conference on Materials and Processes, where he presented "A Tribology Module for Use with the Finite Element Method," coauthored by J. Liu and W.R.D. Wilson, and "Bending and Springback of Laminated Steels," coauthored by S. Yin, **Edmundo Corona** and **James J. Mason**, both associate professors of mechanical engineering, Oct. 15-18, in Honolulu.

**Thomas Gordon Smith**, professor of architecture, presented an invited paper "Architecture and Sacred Space" to a colloquium of the CIEL Conference titled "Liturgy and the Sacred in France," Versailles, Nov. 23.

**Lee Tavis**, Smith Professor of Business Administration, presented "Business as a Role Model to Business: Beyond the Supply Chain" and was a panel moderator at the Americas Conference on Corporate Social Responsibility: Alliances for Development, Sept. 23.

**Jay Tidmarsh**, professor of law, presented "Democracy, Globalization, and Law. Some Cautionary Reflections" at the Democracy, Globalization, and Law Conference, cosponsored by Hamline Univ. School of Law and the Center for Process Studies, in St. Paul, Minn., Sept. 21.

**Michael Wiescher**, Freimann Professor of Physics, presented the invited talk

"Nuclear Structure in Nuclear Astrophysics" at the international symposium on "The Nuclear Many-Body System: Exploring the Limits," Gent, Belgium, Oct. 24; gave the colloquium "The Fate of Matter on the Surface of Accreting Neutron Stars" at Gesellschaft für Schwerionenforschung GSI, Darmstadt, Germany, Oct. 29; and presented the invited talk "Nuclear Astrophysics of Neutron-Rich Nuclei" at the Third International Conference on Fission and Properties of Neutron-Rich Nuclei, Sanibel Island, Fla., Nov. 4.

**Oliver F. Williams, C.S.C.**, director of the Center for Ethics and Religious Values in Business and fellow of the Kroc Institute, chaired "A Culture of Life in the World of Business" sessions at the conference "From Death to Life: Agendas for Reform," Notre Dame, Sept. 28; served as a discussant for the presentation "Globalization and Urban Violence in Johannesburg" at the conference "Globalization and Urban Violence," Notre Dame, Oct. 19; presented "Ethics in Our Business" to the National Structured Settlement Association, New Orleans, Oct. 24; presented "Professional Ethics" to the supervisors' round table, Notre Dame, Nov. 6; and presented "Option for the Poor and Business" at a workshop at the conference "The Option for the Poor in Christian Theology," Nov. 11.

## Publications

**Joseph P. Bauer**, professor of law, published the 2003 *Annual Supplement* to Vol. I of Kintner's *Federal Antitrust Law Treatise* (Cincinnati: Anderson Pub. Co., 2002): 69 pp.; the 2003 *Annual Supplement* to Vol. III, *ibid.*: 89 pp.; the 2003 *Annual Supplement* to Vol. IV, *ibid.*: 91 pp.; the 2003 *Annual Supplement* to Vol. V, *ibid.*: 42 pp.; the 2003 *Annual Supplement* to Vol. VI, *ibid.*: 84 pp.; the 2003 *Annual Supplement* to Vol. VII, *ibid.*: 45 pp.; the 2003 *Annual Supplement* to Vol. VIII, *ibid.*: 103 pp.; the 2003 *Annual Supplement* to Vol. IX, *ibid.*: 67 pp.; the 2003 *Annual Supplement* to Vol. X, *ibid.*: 71 pp.; the 2003 *Annual Supplement* to Vol. XI, *ibid.*: 62 pp.

**Alicia M. Beatty**, associate research professor of chemistry and biochemistry, coauthored "Metallaborane Re-

action Chemistry. *nido*-Dirhodapentaborane Isomer Structures and Stabilities and Utilization of Dirhodaboranes as Catalysts for Alkyne Cyclotrimerization" with H. Yan and **Thomas P. Fehlner**, Grace-Rupley Professor of Chemistry, *Organometallics* 21 (2002): 5029-5037.

**Bruce A. Bunker**, chair and professor of physics, coauthored "X-ray Absorption Fine Structure Determination of pH-Dependent U-Bacterial Cell Wall Interactions" with S.D. Kelly, K.M. Kemner, J.B. Fein, D.A. Fowle, M.I. Boyanov, and N. Yee, *Geochimica et Cosmochimica Acta* 66 (2002): 3855-3871.

**Paul M. Cobb**, assistant professor of history and fellow of the Medieval Institute, published "Community versus Contention: Ibn 'Asakir and 'Abbasid Syria" in *Ibn 'Asakir and Early Islamic History*, J.E. Lindsay, ed. (Princeton: Darwin Press, 2002): 100-126.

**Julia Douthwaite**, professor of Romance languages and literatures, fellow of the Nanovic Institute, and director of the Notre Dame study abroad program in France, published a review of Michael Newton, *Savage Girls and Wild Boys: A History of Feral Children*, in *The Times Higher Education Supplement*, London (Nov. 8): 28.

**Rev. Virgilio P. Elizondo**, visiting professor of theology, visiting professor of Latino Studies, and Kellogg fellow, published "Guadalupe: The Birth of American Mestizo Christianity," *Louvain Studies* (October); "The Truth of Juan Diego," *St. Anthony Messenger* (July); *The Way of the Cross: The Passion of Christ in the Americas* (Rowman and Littlefield, 2002); the preface for *Border of Death, Valley of Life: An Immigrant Journey of Heart and Spirit*, by **Rev. Daniel Groody, C.S.C.**, assistant professor of theology; the preface for *The Virgin of Guadalupe: Theological Reflections of an Anglo-Lutheran Liturgist*, by **Maxwell E. Johnson**, professor of theology; and the preface for *Mestizo Democracy: The Politics of Crossing Borders*, by J.F. Burke.

**Georges Enderle**, O'Neil Professor of International Business Ethics, published the chapter "Algunos vinculos entre la ética corporativa y los estudios de desarrollo" (Corporate Ethics at the Beginning of the 21st Century) in *Ética y Desarrollo. La Relación Marginada*, B. Kliksberg, comp. (Buenos Aires: El Ateneo, 2002): 345-372.

**Umesh Garg**, professor of physics, coauthored "Configuration Dependence of Deformation in  $^{183}\text{Au}$ " with P. Joshi, A. Kumar, G. Mukherjee, R.P. Singh, S. Muralithar, R.K. Bhowmik, and I.M. Govil, *Physical Review C* 66 (2002): 044306 (5 pp).

**Denis A. Goulet**, O'Neill Professor Emeritus in Education for Justice, Kellogg Institute and Nanovic Institute fellow, published "Inequalities in the Light of Globalization" in *Globalization and Inequalities*, L. Sabouri (Vatican City: The Pontifical Academy of Social Sciences, 2002): 3-29.

**Li Guo**, assistant professor of Classics, published "The Devil's Advocate: Ibn Daniyal's Art of Parody in His *Qasidah* No. 71," *Mamluk Studies Review* 7 (2003): 177-209; "Gift-giving," *Encyclopaedia of the Qur'an* (E.J. Brill, 2002); a review of Amidu Sanni, *The Arabic Theory of Prosification and Versification: On Hall and Nazm in Arabic Theoretical Discourse*, in the *Journal of the American Oriental Society* 122, No. 1 (2002): 87-89; a review of David Ayalon, *Eunuchs, Caliphs and Sultans: A Study of Power Relationships*, in the *Journal of the American Oriental Society* 121, No. 3 (2001): 535; a review of Linda Northrup, *From Slave to Sultan: The Career of al-Mansur Qalawun and the Consolidation of Mamluk Rule in Egypt and Syria* (678-689 A.H./1279-1290 A.D.), in the *Journal of Near Eastern Studies* 61, No. 3 (2002): 211-213; a review of Manfred Götz, ed., *Islamische Handschriften Teil 1: Nordrhein-Westfalen*, in the *Journal of Near Eastern Studies* 61, No. 3 (2002): 213-214; and a review of Derek Franck, *A Yemeni Passage*, in the *Journal of Near Eastern Studies* 60, No. 4 (2001): 314-315.

**Kevin Hart**, professor of English, published four poems "That Life," "My Name," "Someone," and "Finland," in the online journal *Slope* 16 (2002).

**Paul W. Huber**, associate professor of chemistry and biochemistry, published "A Homolog of FBP2/KSRP Binds to Localized mRNAs in *Xenopus* Oocytes." coauthored with T.T. Kroll, W. Zhao, and C. Jiang, in *Development* 129 (2002): 5609-5619.

**Richard Jensen**, guest professor of biological sciences and director, Greene-Nieuwland Herbarium, coauthored "Evidence of Tissue-Specific Allelopathic activity in *Euthamia graminifolia* and

*Solidago canadensis* (Asteraceae)" with V. Butcko, *American Midland Naturalist* 148 (2002): 253-262.

**Ian Kuijt**, associate professor of anthropology, authored "The Chipped Stone Assemblage of Dhra', Jordan: Preliminary Results on Technology, Typology, and Intra-Assemblage Variability" with N. Goodale and B. Finlayson, published in *Paléorient* 28, No. 1 (2002): 115-130; and "Dhra' Excavation Project" with B. Finlayson, published in *Newsletter of the Council for British Research in the Levant*, ibid.: 14-15.

**David C. Leege**, emeritus professor of political science, published, with K.D. Wald, B.R. Krueger, and P.D. Mueller, *The Politics of Cultural Differences* (Princeton: Princeton Univ. Press, 2002): 287.

**Edward J. Maginn**, associate professor of chemical engineering, published "Solubilities and Thermodynamic Properties of Gases in the Ionic Liquid 1-n-butyl-3-methylimidazolium hexafluorophosphate," coauthored with J.L. Anthony and **Joan F. Brennecke**, professor of chemical engineering, *Journal of Physical Chemistry B* 106 (2002): 7315-7320.

**Grant B. Mathews**, professor and director of the Center for Astrophysics, published "Observational Constraints on Dark Radiation in Brane Cosmology," coauthored with K. Ichiki, M. Yahiro, T. Kajino, and M. Orito, in *Physical Review D* 66 (2002): 043521 (5 pp.).

**Simon M. Pimblott**, professional specialist in the Radiation Laboratory, published "Energy Loss by Non-Relativistic Electrons and Positrons in Liquid Water," coauthored with L.D.A. Siebbeles, *Nuclear Instruments and Methods in Physics Research B* 194 (2002): 237-250.

**Karen Richman**, assistant professor of anthropology, published "Miami Money and the Home Gal" in *Anthropology and Humanism* 27, No. 2 (2002); and "The Birth of 'Girl into Woman': Edie Turner, Anthropologist of a Different Kind," *Anthropology and Humanism* 28, No. 1 (2003).

**Andrew J. Sommese**, Duncan Professor of Mathematics, coauthored "A Method for Tracking Singular Paths With Application to the Numerical Irreducible Decomposition" with J. Verschelde and C.W. Wampler, in *Algebraic Geometry, a Volume in Memory of Paolo Francia*, M.C.

Beltrametti, F. Catanese, C. Ciliberto, A. Lanteri, and C. Pedrini, eds. (De Gruyter, 2002): 329-345.

**Jay Tidmarsh**, professor of law, coauthored *Complex Litigation: Problems in Advanced Civil Procedure* with R.H. Trangsrud (Foundation Press, 2002): 304 pp.

**Robert P. Vecchio**, Schurz Professor of Management, published *Organizational Behavior* 5th edition (Mason, Ohio: South-Western Publishing, 2003).

**John A. Weber**, associate professor of marketing, published "Managing the Marketing Budget in a Cost Constrained Environment," *Industrial Marketing Management* 31, No. 8 (2002): 705-717.

**Michael Wiescher**, Freimann Professor of Physics, published "Cross Section Measurements of the  $^{102}\text{Pd}(\text{p}\gamma)^{103}\text{Ag}$ ,  $^{116}\text{Sn}(\text{p}\gamma)^{117}\text{Sb}$ , and  $^{112}\text{Sn}(\alpha\gamma)^{116}\text{Te}$  Reactions Relevant to the Astrophysical  $\text{rp-}$  and  $\gamma$ -Processes," coauthored with N. Özkan, A.St.J. Murphy, R.N. Boyd, A.L. Cole, M. Famiano, R.T. Güray, M. Howard, L. Sahin, J.J. Zach, R. deHaan, J. Görres, M.S. Islam, and T. Rauscher, *Nuclear Physics A* 710 (2002): 469-485; and "Half-Life Measurements of Proton-Rich  $^{78}\text{Kr}$  Fragments" with M.J. López Jiménez, B. Blank, M. Chartier, S. Czajkowski, P. Dessagne, G. de France, J. Giovinazzo, D. Karamanis, M. Lewitowicz, V. Maslov, C. Miehé, P.H. Regan, and M. Stanoiu, *Physical Review C* 66 (2002): 025803 (8 pp.).

**Charles K. Wilber**, emeritus professor of economics and Kroc Institute fellow, published "Teaching Economics While Keeping the Faith" in *Teaching as an Act of Faith*, A.C. Migliazzo, ed. (New York: Fordham Univ. Press, 2002): 3-20.

# Administrators' Notes

## Honors

**August R. Freda**, director of Development Research, was recently elected to the board of directors for APRA-Indiana (Association of Professional Researchers for Advancement).

## Activities

**Alan S. Bigger**, director of Building Services, presented "Are We Sinking or Swimming? The Need for Performance Indicators" for the Univ. of Texas teleconference "Facilities Management," Nov. 13.

**Annie Cahill**, director of community partnerships and service learning at the Center for Social Concerns, presented "Realizing the Civic Mission of Higher Education" at the Campus Compact National Summit, Providence, R.I., Nov. 7-9.

**Lori Maurer**, associate director of Residence Life and Housing, presented "In Partnership with Parents" at the Great Lakes Association of College and University Housing Officers annual conference, St. Charles, Ill., Nov. 3-5.

**Rachel Tomas Morgan**, director of international experiential learning and justice education programs at the Center for Social Concerns, was a member of planning sessions for "Catholic Peacebuilding," New York, Oct. 31 through Nov. 3.

**Andrea Smith Shappell**, director of senior transition programs at the Center for Social Concerns, presented "Promoting Service and Social Action on College Campuses" at the Catholic Network of Volunteer Service Conference, Philadelphia, Nov. 9.

**Jeffrey Shoup**, director of Residence Life and Housing, presented "Workplace Safety 101" at the Great Lakes Association of College and University Housing Officers (GLACUHO) annual conference, St. Charles, Ill., Nov. 3-5; and presented "Navigating Campus Politics" at the GLACUHO new professionals workshop, Champaign, Ill., Sept. 30.

**Scott Siler**, director of Alumni Information Technologies, presented "Irish Online: Building and Promoting a

Successful Alumni eCommunity" at the eAlumni Fall 2002 Users Conference in New Orleans, Nov. 3-5.

## Publications

**Alan S. Bigger**, director of Building Services, coauthored "Seven or More Habits of Highly Ineffective Managers" with L.B. Bigger, *Executive Housekeeping Today* 23, No. 4 (Nov.): 6-8.



# Documentation

## MINUTES OF THE 290th GRADUATE COUNCIL MEETING

September 18, 2002

**Present:** Terrence Akai, Ani Aprahamian, Cindy Bergeman representing Mark Roche, Peter Burns, Doris Bergen, Timothy Dale, Peter Diffley, Andrew Gould, Hope Hollocher, Lionel Jensen, Ed Maginn, Joseph Marino, Timothy Ovaert, Donald Pope-Davis, James Powell, John Renaud, Richard Sheehan, Michael Signer, Richard Taylor, Barbara Turpin, Ravi Subramanian, Diane Wilson, Carolyn Woo, Jennifer Younger.

**Absent:** Howard Hanson, Anthony Hyder, Frank Incropera, Paul Weithman

### I. Approval of the Minutes of the 289th Graduate Council Meeting

Prof. Kantor invited a motion to approve the minutes from the April 24, 2002 Graduate Council meeting. Prof. Burns made the motion and Jennifer Younger seconded it. The minutes were approved unanimously.

### II. Notre Dame and the NRC Survey

Dr. Diffley led the discussion on the National Research Council Rankings. He noted that we are generating interest in other schools to share information and that in order to do this most effectively we should determine a group of around ten schools that we consider to be our peers.

Next year, he said, the NRC will request data from us and thus it might be helpful to discuss how the survey is conducted. He said that faculty rosters are given to reviewers, who then, based on their knowledge of the faculty's work and on their personal experience with the campus and its graduates, score the department's quality accordingly. The scores are then averaged and ranked. He argued that the more active faculty we have, the more likely it will be that their work will be recognized. The more graduates we produce, the more likely it will be that a reviewer will know one. The more departmental seminars, reviews and conferences that we organize the more likely we are to draw a reviewer to campus.

Dr. Diffley then turned to the results of a study he had conducted. He collected current faculty and student data in the same manner that the NRC collected it in 1992 and compared this data to Notre Dame's 1992 data and to the 1992 data of the top quarter departments in 21 different disciplines to see if we have changed at all.

He said that most of our disciplines (11 of 21) are small based on numbers of faculty. These departments have a faculty size that's smaller than 75% of the NRC top quarter schools. We have made progress; nine disciplines have made significant strides in number of faculty between 1992 and 2001. We do very well in the percentage of faculty who are funded and who are publishing. Sixteen of 21 disciplines are successful in getting funding. More people are reading our faculty's work; the number of citations has increased. This is beneficial for the NRC survey for Notre Dame.

Almost all Notre Dame departments have a small graduate enrollment, Dr. Diffley said. The size of the graduate student body has not increased but the faculty size has. Half of our departments have a poor student-to-faculty ratio. Many departments in science and engineering need to spend more research dollars for RA stipends to increase their graduate enrollment.

The NRC will begin gathering data in fall 2003, Prof. Kantor concluded. It will be based on what we have in place for the 2002-2003 academic year. There will be an update on the next NRC survey at the Council of Graduate Schools meeting later this year.

Prof. Bergeman asked if we know how the top quarter schools from 1992 have changed. Prof. Diffley said there is no way to know until the next survey is published.

Prof. Kantor asked if there were any data preparation that departments should be anticipating at this point. Prof. Diffley said that department chairs should think beyond their department confines. If a faculty member interacts significantly within a department but is not full-time there, the department should think about including that person in its roster, particularly if he or she has a concurrent appointment there. They also need to determine whether emeritus faculty



should be included or not. Finally, departments should know that if someone they've just hired has published over the past five years, those publications will be attributed to his or her previous institution.

### III. Discussion of Graduate School's Strategic Plan

Prof. Kantor began by stating that he will be presenting a preliminary version of the strategic planning effort that has been under way in The Graduate School that is part of a larger University effort. (The outline of the plan in the form of a Powerpoint presentation is included in the packet sent to the members prior to the meeting.) One of the slides provides a sketch of the process that is taking place. The effort will eventually result in a report from the President to the Board of Trustees regarding strategic priorities and planning for the University which will lead to a subsequent campaign. Fr. Malloy appointed a coordinating committee to help guide this work. Two rounds of reporting were requested. The first round that commenced last fall consisted of reports from four committees that looked at the following issues:

- \* Finance and Fundraising
- \* Research
- \* Curriculum
- \* The Future of Higher Education

Reports from these committees were issued in early to mid spring, Prof. Kantor said. This resulted in charges to various academic units. He referred to the slide entitled 'University's Goals.' It is a very challenging set of goals, he said. For The Graduate School it means asking the question, How can we move our graduate programs forward in a very significant way over the next ten years? This is a unique challenge for The Graduate School because it is about partnership. This is a shared process, an attempt to support the growth of individual disciplines.

Prof. Kantor defined three roles for The Graduate School: 1) the recruitment and professional development of our students, and assuring quality in our departments; 2) fostering research (developing opportunities for faculty, obtaining support for infrastructure, and generating interdisciplinary initiatives; 3) disseminating scholarship (through

the Notre Dame Press, journals, conferences, etc.). Referring to the presentation, he compared Notre Dame's NRC rankings against schools like Princeton, Brown and Emory. He presented some measures of program quality, noting our low student-to-faculty ratio and the implications of this — fewer active researchers resulting in fewer publications. He also reviewed quality indicators (GPA, GRE, baccalaureate origins of our students) and how they have changed since 1993. Finally, he noted that with regard to placement, we do not do as well as our peers in getting our PhDs into tenure-track jobs in prestigious institutions.

After the presentation there were several questions and comments made about the strategic planning effort in The Graduate School.

Prof. Maginn asked what the next steps will be in order to move departments up in the rankings. Prof. Kantor stated that he will rely on the college initiatives and the deans to make that determination. The Graduate School will reward and support success to ensure balance.

Prof. Younger said that under support for infrastructure, the library should be mentioned as a digital depository.

Prof. Bergen said that one item that ought to be mentioned in the plan is the need for office space for graduate students. The lack of such space makes it very tough to recruit in the humanities.

Prof. Gould asked how Prof. Kantor read the future audience for the plan. If we achieve the NRC rankings that we want, we'll look like Emory and Rice. Why would we want to look like Emory or Rice? Prof. Kantor said that we can't set the bar too high; we're only looking at a ten-year time frame. We need to make a judgment on what we think is achievable.

Prof. Aprahamian stated that she feels that strong disciplines will have an opportunity to increase funding for research more quickly than multi-disciplinary areas. Prof. Kantor replied that PhD programs ought to be disciplinary-based for the sake of the students.

Prof. Maginn asked how we will identify departments we want to get into the top quartile. Prof. Kantor said that graduate programs are housed in colleges; The

Graduate School will support the colleges. Dr. Akai added that The Graduate School can only influence the colleges.

The meeting was adjourned at 4:41 p.m.

## UNIVERSITY COMMITTEE ON WOMEN FACULTY AND STUDENTS

University of Notre Dame

Meeting of October 4, 2002

**Members present:** Teresa Godwin Phelps, Chair; Jennifer Anthony, Patricia Bellia, Elizabeth Bishop, Mary Rose D'Angelo, Megan Markey, Patricia Maurice, Maura Ryan, Katherine Spiess.

**Members absent:** Joan Aldous, Charlotte Ames, Barbara Mangione, Martiqua Post, Carol Tanner

**Permanent invited:** Rhonda Brown, Director, Office of Institutional Equity;

**Guests:** Ava Preacher, Assistant Dean, Arts and Letters

**Guests:** Catherine Pieronek, Director, Women's Engineering Program at the University of Notre Dame

**Observers:** Mary Hendriksen (reporter)

Prof. Phelps, Chair of the University Committee on Women Faculty and Students, called the meeting to order at 8:35 a.m. After introductions, Prof. Phelps gave a brief history of the committee.

### 1. Charge of the Committee and Initiatives Undertaken in 2001-2002.

Prof. Phelps explained that the Committee's mandate is contained in the *Academic Articles*: "The University Committee on Women Faculty and Students will consider policies, practices and the general environment of the University as they relate to women faculty and students. The committee will serve in an advisory capacity reporting to the President through the Provost. The committee may make recommendations for action to the President, or, as he directs, for action by the other Officers of the University and the Academic Council." *Academic Articles*, Art. IV, Sec. 3(1).

Prof. Phelps said that as is true of most University committees, the profile and

impact of the University Committee on Women Faculty and Students have been stronger in some years than in others. She identified two of the committee's most important and successful past initiatives as advocacy for the establishment of a campus daycare center and development of a mentoring program for women faculty.

Prof. Phelps explained that last year committee members chose two issues—one related to faculty, the other to students—on which to focus their efforts.

**(a) Equity in compensation for men and women faculty members.** The issue pertaining to faculty the committee adopted was equity in compensation for women faculty members. Thus, a subcommittee began looking at questions of pay equity and developing a process of annual review for pay equity, retention, and mentoring. Subcommittee members will continue their work this year toward a proposal advocating some kind of annual review so that women faculty may feel assured that previous pay equity problems become eliminated.

Prof. Maurice commented that women faculty in Engineering have been successful in mentoring new women faculty members on salary issues. She said that mentoring is important in each of the three stages of salary negotiation: initial salary negotiation and the establishment of a faculty member's base pay; negotiation of salary increases; and the possible leveraging of a faculty member's salary when offers are received from other institutions.

Prof. Preacher asked if statistics exist on the current attrition rate of women. She perceives attrition of women faculty members at Notre Dame as a monumental problem but said that she knows the issue is complex. Women faculty leave the University for a variety of reasons. Some women choose to teach at other institutions, others leave because their contracts are not renewed or they fail to receive tenure, still others leave because of spousal hire or family issues. Given the complexity of the issue, there must be more than one strategy to address the problem.

Prof. D'Angelo noted that the Faculty Affairs Subcommittee of the Academic Council has decided to take up the issue of transparency in faculty salaries as an agenda item this year.

#### **(b) Equity in University housing.**

The issue chosen last year by committee members on behalf of women students was equity in University housing, including the different number and job responsibilities of assistant rectors in women's dorms and men's dorms (and the concomitant lack of job opportunities for female graduate students to be assistant rectors); the sometimes inappropriate and intrusive behavior of security monitors in the women's dorms; and the unequal application and enforcement of University rules in men's and women's dorms. After researching the issue, the committee sent a memorandum last spring to Fr. Mark Poorman, C.S.C., Vice President for Student Affairs, drawing the inequities to his attention and making recommendations for their resolution. Fr. Poorman replied in a letter dated May 3, 2002, that the Office of Student Affairs had already begun to consider the questions associated with assistant rectors and security monitors in conjunction with the University-wide strategic planning process and would use the committee's report for input in that process. As to the unequal application and enforcement of University rules in men's and women's dorms, Fr. Poorman wrote that his office will continue to be in dialogue with rectors to ensure that hall staffs have a common understanding of University policies and are evenhanded in their enforcement of those policies.

In discussing follow-up on this issue, members decided to ask Kathy Brannock, who has worked as a resident advisor, an assistant rector, and a rector, to attend a committee meeting and provide her perspective on the issue. The committee will ask Fr. Poorman to attend a subsequent meeting.

**2. Discussion with Catherine Pieronek, Director, Women's Engineering Program at the University of Notre Dame.** After noting that committee members have discussed targeting the attrition rate of women from certain majors as the student issue of the 2002-03 academic year, Prof. Phelps introduced Catherine Pieronek, Director of the Women's Engineering Program at Notre Dame.

Ms. Pieronek said that she was hired by the College of Engineering to address the matter of attrition of women students as well as the low percentage of

women students in the program. For the Class of 2004, for example, while 38% of men left engineering between their first and second years, that rate was 50% for women. For the Class of 2005, the attrition rate for men dropped to 25%, but the rate for women actually grew to 52%. Overall, women comprise around 21% of Notre Dame's undergraduate engineering students, compared with a national average of 19%.

Ms. Pieronek explained that the College expects some attrition, due largely to the fact that many students enroll in the Introduction to Engineering course sequence with some interest but unsure of what engineers do. Enrolling in the course allows students to explore the discipline and to keep their educational options open. Thus, a drop-off for women as much as the 25% rate exhibited by men is not a significant concern.

Ms. Pieronek said because there are many reasons for the higher attrition rate at Notre Dame for women, there will not be only one solution to the problem. She suspects, however, that the rate of attrition could be stemmed through efforts to improve the quality of relationships women engineering students have with other students—both female and male. Additionally, some students are discouraged by factors such as the amount of work required in the program and earning lower-than-expected grades early in the first year.

Ms. Pieronek said she believes that the second and third factors might be countered by other types of programming that build confidence and inspire success. For instance, other schools—Purdue University is an example—offer a one-credit course to first-year women engineering students that includes skills development, leadership training, and lectures by alumnae and other prominent women engineers to provide inspiration to first-year students. Tutoring, focused on the unique needs of women—countering, for example, a lack of exposure to computer programming in high school—might also help stem the attrition rate.

With the issue of relationships, the starting place for first-year women is the University's residence halls. Yet, Ms. Pieronek said, given the relatively small number of women engineering students at the University, Notre Dame's policy

of random room assignments results in fewer opportunities for first-year women engineering students than their male counterparts to find support among their peers. The problem is compounded by the fact that about half of all junior women engineering students spend some portion of their year abroad and about half of senior women engineering students live off campus. Thus, fewer than 200 women engineering students in all four classes live on campus this year – and that number is spread among 13 residence halls. Among first-year women engineering students, there are as few as four in any one dorm. Ms. Pieronek said that number should be contrasted with Alumni Hall, for example, which has around 20 first-year male engineering students, all of whom are on two floors, thus ensuring a high degree of peer support. Combining the low number of women in University residence halls with the fact that there are eight distinct majors within the College of Engineering (Aerospace, Mechanical, Chemical, Civil, Geological Sciences, Computer, Computer Science, and Electrical), means that it is difficult for a first-year woman engineering student to find another woman like her – someone who is also spending six hours a night on one problem set and shares the same educational goals. There are easier majors at the University that can begin to look appealing to a first-year student who is feeling isolated.

A second element of women students' relationships with other students has to do with their relationships with the first-year men students, and that, said Prof. Maurice, has much to do with the nature of the revamped first-year Engineering 111/112 course sequence. In the first-year sequence, all students attend lectures together, then meet in sections of about 30 students in something akin to the recitation sections in calculus or chemistry courses. Within the sections, five-member groups begin working together in September. The composition of these five-member groups changes for each of the four projects students are either assigned by the instructor or selected by the students – the format is determined by the individual small-section instructors – throughout the two semesters of the course.

Prof. Maurice said that women students can easily feel isolated when they are the only female student on each team of five. Feelings of isolation can be exacerbated by the lack of maturity that some first-year male students display. She believes that if Engineering classes were conducted in a more traditional fashion for the first few weeks and then students were assigned to teams, the comfort level of women students would rise and they could become full participants in the group projects.

Ms. Pieronek agreed that the group format of the first-year engineering program poses a problem for some women students. Yet, she said, some of the course faculty members have expressed resistance to the suggestion that no group should have only one woman assigned to it. Reasons range from the belief that women students need to learn to work with men students because, soon, as professionals, they will be working as engineers in similar predominantly male environments, to an honestly held conviction that all students should be treated similarly, leading to a resistance toward any artificial distinctions between men and women students.

Prof. Preacher pointed out that such an argument presumes that men do not need to change their attitudes or expectations—only women.

Prof. Maurice agreed. As an example of the atmosphere first-year women engineering students can encounter, she related how once some male students posted a list of "most rapeable" women in the Engineering computing lab.

Ms. Pieronek then provided the results of a recent, nationwide study conducted for the Alfred P. Sloan Foundation that indicates the number one reason women withdraw from engineering programs is their own perception of their grades, which may, in fact, be different than their actual grades. The number two reason women withdraw is the time they spend earning their grades. In contrast, this same study showed that fathers have the greatest impact on their daughters' decisions to stay, with mothers as the second-most important influence. The study also revealed the importance of other relationships—with mentors, classmates, and faculty—in women students' decisions to pursue an engineering curriculum.

Prof. Ryan asked about the comparison of Notre Dame's attrition rate to peer institutions.

Ms. Pieronek replied that, generally, the large, public institutions fare better in terms of the number of women engineers they graduate, but the overall attrition numbers are not readily available. Purdue, for example, has as many women engineering students this academic year (approximately 1,150) as Notre Dame has graduated in its entire history. While Purdue's retention rates are about the same as Notre Dame's overall, several programs seem to have helped in discrete cases. For example, first-year women engineering students at Purdue can opt into an all-women dorm that has three floors reserved for engineering students and two floors for science majors. In that dorm, Purdue offers lectures, tutoring, and other programs. Women who participate in these programs have a 97% retention rate to the second year. Similarly, Ms. Pieronek said, another large, public university with a high percentage of women engineering students – the University of Michigan – houses its first-year engineering students in residence halls on the north campus, where the classrooms and laboratories of the School of Engineering are located.

Ms. Anthony, a graduate student in chemical engineering, said that at her undergraduate institution, the University of Colorado, a very successful and extensive peer mentoring program existed in the first-year dorms.

Ms. Pieronek concluded her presentation by saying that the Dean of the College of Engineering, Frank Incropera, has been very supportive in endeavors to remedy the high attrition rate of women engineering students. Prof. Maurice concurred. The College has established a three-part goal for its first-year program: (1) enrolling 400 students overall, (2) of whom 100 to 130 will be women, and (3) retaining at least 75% of the original number of entering students—in equal proportions of men and women—through the sophomore year.

Prof. Preacher asked if steps were being taken to draw more women into engineering once they are on campus.

Ms. Pieronek answered that this is difficult, primarily because engineering studies must begin in the first semester to ensure that students graduate in

four years. Some initiatives might help, including a broader approach to the discipline that would keep more women attached; yet, in engineering, faculty feel responsible for transmitting a certain body of knowledge to their students in their four years at Notre Dame. This makes broadening the curriculum difficult.

In discussing the role of the Committee on Women Faculty and Students in addressing the problem, Prof. Phelps suggested that the first step should be identifying other majors at Notre Dame in which women are underrepresented and gathering data on those programs as well. The purpose of this effort would be to identify common barriers or other difficulties women face in these disciplines with a goal, perhaps, of formulating a university-wide plan to remedy inequities.

Prof. Preacher recommended some kind of benchmarking study using the institutions to which Notre Dame routinely compares itself: Vanderbilt, Duke, Rice, Stanford, Cornell, Boston College, Emory, or Northwestern. She said that while the comparisons with Purdue and Michigan Ms. Pieronek provided were interesting, the differences between those two schools and Notre Dame are so great that they may not be entirely productive. Ms. Pieronek agreed with her assessment.

Prof. Maurice mentioned that Dr. Domenic Grasso, the first dean of the new engineering school at Smith College, will lecture at Notre Dame on November 22 on "The Seductive Equation." The topic will be whether there should be pedagogical differences in teaching men and women. Dr. Grasso will also meet with various members of the College's faculty and administration and perhaps discuss possible collaborative efforts between the two institutions.

Prof. Maurice also commented that change can be driven by professors' eagerness to receive federal grants and fellowships. Because of the requirements of Title IX, colleges need to ensure that they do not discriminate against women. When faculty seeking grants understand that the presence of women faculty and students will help them qualify for federal funding, they become more attentive to searching for qualified women faculty and graduate students.

Ms. Pieronek pointed out that there is a limit to how effective Title IX can be in effecting such changes but agreed that such external motivations can be helpful.

Prof. Phelps thanked Ms. Pieronek for her presentation and adjourned the meeting at 10:00 a.m.

## Errors and Omissions

In issue 5, page 132, under **Alicia M. Beatty**, the wrong publication was cited. The correct information follows:

**Alicia M. Beatty**, associate research professor of chemistry and biochemistry, coauthored "Facile Hydro-metalation of Alkynes by *nido*-1,2-(Cp\**RuH*)<sub>2</sub>B<sub>3</sub>H<sub>7</sub> Yielding Novel Ru-B Edge-Bridging Alkylidenes. Stepwise Conversion of HC≡(O)OMe into *nido*-1,2-(Cp\**RuH*)<sub>2</sub>-3-HOB-4-MeC-5-MeOC-BH<sub>3</sub>, Cp\* = η<sup>5</sup>-C<sub>5</sub>Me<sub>5</sub>" with H. Yan and **Thomas P. Fehlner**, Grace-Rupley Professor of Chemistry, *Journal of the American Chemical Society, Communications* 124 (2002): 10280-10281.

### Departmental Awards Received and Proposals Submitted

In the period from February 1 to February 28, 2002

Category	AWARDS RECEIVED		PROPOSALS SUBMITTED	
	No.	Amount	No.	Amount
Research	33	\$3,074,405	47	\$27,860,769
Facilities and Equipment	0	\$0	0	\$0
Instructional Programs	2	\$268,133	1	\$1,625,789
Other Programs	0	\$0	0	\$0
Service Programs	0	\$0	0	\$0
<b>Total</b>	<b>35</b>	<b>\$3,342,538</b>	<b>48</b>	<b>\$29,486,558</b>

#### FISCAL YEAR-TO-DATE CUMULATIVE

Category	AWARDS RECEIVED		PROPOSALS SUBMITTED	
	No.	Amount	No.	Amount
Research	118	\$23,389,847	222	\$64,450,778
Facilities and Equipment	0	\$0	0	\$0
Instructional Programs	5	\$766,901	5	\$1,693,104
Other Programs	0	\$0	0	\$0
Service Programs	0	\$0	0	\$0
<b>Total</b>	<b>123</b>	<b>\$24,156,748</b>	<b>227</b>	<b>\$66,143,882</b>

#### October 2002 Cumulative Summary Awards Received

Category	7/1/2000-10/31/2000		7/1/2001-10/31/2001		7/01/2002-10/31/2002	
	No.	Amount	No.	Amount	No.	Amount
Research	174	\$25,590,886	163	\$17,197,804	118	\$23,389,847
Facilities and Equipment						
Instructional Programs	7	\$360,779	9	\$1,184,402	5	\$766,901
Other Programs	1	\$25,000				
Service Programs						
<b>Total</b>	<b>182</b>	<b>\$25,976,665</b>	<b>172</b>	<b>\$18,382,206</b>	<b>123</b>	<b>\$24,156,748</b>

#### Proposals Submitted

Category	7/1/2000-10/31/2000		7/1/2001-10/31/2001		7/01/2002-10/31/2002	
	No.	Amount	No.	Amount	No.	Amount
Research	187	\$106,753,556	246	\$81,178,680	222	\$64,450,778
Facilities and Equipment						
Instructional Programs	1	\$11,500	4	\$3,590,812	5	\$1,693,104
Other Programs						
Service Programs						
<b>Total</b>	<b>188</b>	<b>\$106,765,056</b>	<b>250</b>	<b>\$84,769,492</b>	<b>227</b>	<b>\$66,143,882</b>

All awards and proposals are credited in the Monthly Summaries report to the academic department of the primary principal investigator. The Office of Research proposal routing form asks principal investigators to indicate at the time the proposal is submitted which unit will be responsible for the conduct of the project. If that unit is a center or institute, the proposal/award is included in the Centers/Institutes report, which is a subset of the Monthly Summaries report.

The Office of Research is doing what it can to ensure all units receive credit for the proposals/awards they submit and receive. However, it depends on the PI to properly identify responsibility for the project at the time the proposal is submitted. Please notify the Office of Research at [research2@nd.edu](mailto:research2@nd.edu) or 1-4670 if you are aware of any proposals or awards that have not been properly credited to a center or institute.

# Research

## Awards Received

October 1, 2002 through October 31, 2002

### Awards for Research:

#### Aerospace and Mechanical Engineering

##### Niebur, Glen L.

The Role of Fusion Mass Size, Density, and Placement in  
Stability of Lumbar Interbody Fusions

Corporation

\$54,395 12 months

##### Glazier, James A.; Niebur, Glen L. (Center or Institute)

Symposium: The Role of Tissue Mechanics in Biological  
Responses to Mechanical Loading

Private Foundation

\$5,000 4 months

##### Nieber, Glen L.; Roeder, Ryan K.

Staining Techniques for Micro-CT Imaging of Microdamage

National Institutes of Health

\$111,375 35 months

#### Biological Sciences

##### Adams, John H.

Molecular Analysis of Apical Organelles of Plasmodium

National Institutes of Health

\$24,6881 35 months

##### Bender, Harvey A.

Lumina Foundation for Education Project

Private Foundation

\$100,000 24 months

##### Collins, Frank Hadley (Center or Institute)

Experimental Parasitology and Vector Biology

National Institutes of Health

\$118,073 35 months

##### Collins, Frank Hadley (Center or Institute)

Cloning of Plasmodium-Refractoriness Genes in *A. Gambiae*

National Institutes of Health

\$362,903 12 months

##### D'Souza-Schorey, Crislyn

Role of Membrane Traffic in Epithelial Cell Migration

Private Foundation

\$720,000 48 months

##### Diffley, Peter

Graduate Research Fellow - TBA

National Science Foundation

\$7,000 60 months

##### Diffley, Peter

Javits Fellowship for Shannon (Bralick) Valenzuela

Department of Education

\$32,531 48 months

##### Diffley, Peter

Graduate Research Fellowship for Justin Biddle

National Science Foundation

\$32,000 60 months

##### Diffley, Peter

Graduate Research Fellowship for Kathryn Docherty

National Science Foundation

\$32,000 60 months

##### Diffley, Peter

Graduate Research Fellowship for Sonja Braun-Sand

National Science Foundation

\$32,000 60 months

##### Diffley, Peter

Graduate Research Fellowship for Jason Keller

National Science Foundation

\$32,000 60 months

##### Diffley, Peter

Graduate Research Fellowship for Daniel McKaughan

National Science Foundation

\$32,000 60 months

#### Civil Engineering and Geological Sciences

##### Burns, Peter C.

Microbially-Promoted Alteration of U (VI) Phases

Department of Energy

\$135,000 36 months

#### Computer Science and Engineering

##### Freeland, Joseph C.; Schaelicke, Lambert

Scalable Programmable Appliance-based Network

Intrusion Detection Architecture

National Science Foundation

\$399,999 36 months

### English

**Fox, Christopher (Center or Institute)**  
Anglo-Irish Identities: 1600-1800  
National Endowment for the Humanities  
\$107,694 12 months

### Mathematics

**Gursky, Matthew J.**  
Higher Order Elliptic Equations in Geometry  
National Science Foundation  
\$16,054 36 months

### Philosophy

**Flint, Thomas P.**  
2003 Russian-Anglo American Conference on Cosmology and  
Theology  
Private Foundation  
\$28,000 9 months

### Physics

**Bennett, David P. (Center or Institute)**  
Confirmation of Black Hole, Planetary, and Binary  
Microlensing Events  
Private Foundation  
\$17,928 49 months

**Garnavich, Peter M.; Holland, Stephen**  
The Origin of Gamma-Ray Bursts  
Private Foundation  
\$28,501 24 months

### Psychology

**Borkowski, John G.; Maxwell, Scott E.; LeClere, Felicia B.**  
Enhancing Head Start Readiness for High-Risk Children  
National Institutes of Health  
\$183,071 11 months

**Borkowski, John G.**  
Preventing Child Neglect: A Model Program  
Health and Human Services  
\$220,000 12 months

### Radiation Laboratory

**Kamat, Prashant V. (Center or Institute)**  
Mechanism of Indo Dye Formation and Its Stability in Hair  
Proteins  
Corporation  
\$20,000 3 months

#### Awards for Research:

### Center for Social Concerns

**Caponigro, Jerome V.**  
After School Program  
City of South Bend  
\$5,000 10 months

**Caponigro, Jerome V.**  
I-READ Tutorial Assistance Subgrant (TAS) Program  
South Bend Community School Corporation  
\$100,000 20 months

### Educational Talent Search

**Vann-Hamilton, Joy J.; Coleman, Myrtie M.; Outlaw, Warren G. (Center or Institute)**  
Talent Search  
Department of Education  
\$393,768 48 months

### Proposals Submitted

October 1, 2002 through October 31, 2002

#### Proposals for Research:

### Aerospace and Mechanical Engineering

**Bowling, Alan P.**  
Control of Agile Motions in Legged Locomotion  
Department of Navy  
\$272,540 36 months

**Goodwine, John W.**  
Reduction and Control of Nonlinear Symmetric Distributed  
Systems  
Department of Navy  
\$299,847 36 months

**Paolucci, Samuel; Izaguirre, Jesus A.**  
NIRT: Hybrid Continuum-Molecular Dynamics Modeling of  
Microflows  
National Science Foundation  
\$1,741,049 48 months



## Art, Art History, and Design

**Gill, Meredith J.**

Augustine and the Renaissance

Private Foundation

\$20,000

9 months

**Gill, Meredith J.**

Augustine and the Renaissance

National Humanities Center

\$30,000

9 months

**Gill, Meredith J.**

Augustine and the Renaissance

Private Foundation

\$40,000

9 months

## Biological Sciences

**Adams, John H.; Boggess, William C.**

Sensitive Proteomic Methods to Study Malarial Proteins

National Institutes of Health

\$208,264

12 months

**Besansky, Nora J.**

Cloning and Characterization of the 2Rj Inversion Breakpoints  
of *Anopheles gambiae*

Private Foundation

\$15,000

12 months

**Besansky, Nora J.**

Species Boundaries in the *Anopheles gambiae* Complex

National Institutes of Health

\$220,866

12 months

**Tenniswood, Martin**

Diet and Hormone Therapy for Hormone Cancer

National Institutes of Health

\$222,750

12 months

## Chemical Engineering

**Brennecke, Joan E.; Aki, Sudhir; Kamat, Prashant V.**

NIRT: Luminescent Semiconductor Nanostructures for *in-situ* Sensing and Remediation of Organic Contaminants in  
Supercritical Carbon Dioxide

National Science Foundation

\$1,228,149

48 months

**Hill, Davide A.; Schmid, Steven R.; Mason, James J.**

Hydrogel-Based Articular Cartilage Substitutes

National Institutes of Health

\$259,875

12 months

**Maginn, Edward J.**

Use of Ionic Liquids for Capture of Carbon Dioxide Emissions  
Corporation

\$74,910

24 months

**Ostafin, Agnes E.**

Nanosphere Biophotonic Sensors

National Science Foundation

\$364,634

36 months

**Varma, Arvind; McGinn, Paul J.; McCready, Mark J.**

IGERT: Integrated Phd Training in Carbon Science and  
Technology with Business Practice

National Science Foundation

\$2,645,600

60 months

## Chemistry and Biochemistry

**Clark, Patricia L.**

Role of the Ribosome in Contranlational Protein Folding

National Institutes of Health

\$291,665

12 months

**Fehlner, Thomas P.**

Systematic Metallaborane Reaction Chemistry

National Science Foundation

\$543,011

36 months

**Lieberman, Marya; Huber, Paul W.; Lent, Craig S.**

NER: Hierarchial Self-Assembly of DNA Tiles

National Science Foundation

\$99,999

12 months

**Ploplis, Victoria A.**

Pathological Consequences of the Plasminogen System

National Institutes of Health

\$297,000

12 months

**Wiest, Olaf G.**

Mechanisms and Models of DNA Photolyases

National Institutes of Health

\$181,260

12 months

## Civil Engineering and Geological Sciences

**Kareem, Ahsan**

Aerodynamics of Cable-Stayed Bridges

National Science Foundation

\$274,694

36 months

**Ketchum, Lloyd H.**  
Small Community Water and Wastewater Systems  
National Science Foundation  
\$3,012,722 60 months

**Kurama, Yahya C.; Salvati, Lynn A.**  
An Innovative Method for the Seismic Retrofit of RC Wall Buildings  
National Science Foundation  
\$234,199 36 months

### The Classics

**Afsaruddin, Asma**  
Striving in the Path of God: Discursive Traditions on Jihad and the Cult of Martyrdom  
Private Foundation  
\$40,000 9 months

### East Asian Languages and Literatures

**Ge, Liangyan**  
Out of the Examination Hall: A Chinese Way of Making Fiction  
Private Foundation  
\$43,200 12 months

**Wan, Margaret B.**  
The Changing Aesthetic of the Novel: The case of *Lu Mudan*, a Pioneer Martial Arts Novel  
Private Foundation  
\$30,000 12 months

### Economics

**Ghilarducci, Teresa**  
How U.S. Retirement Policy is Changing  
Private Foundation  
\$36,000 12 months

### Electrical Engineering

**Bauer, Peter H.**  
Distributed Multisensor Networks: Information Fusion and Decision-Making  
University of Miami  
\$223,813 36 months

**Bernstein, Gary H.**  
Inductive Coupling of Pulses to Implanted Electrodes for Deep Brain Stimulation  
Private Foundation  
\$232,000 24 months

**Fay, Patrick J.**  
Advanced GaAsSb/InP HBT Design and Fabrication  
DARPA  
\$358,731 36 months

**Lent, Craig S.; Snider, Gregory L.; Kandel, S.A.; Lieberman, Marya; Fehlner, Thomas P.**  
NIRT: Field-effect Switching of Molecular Charge Configurations for QCA  
National Science Foundation  
\$2,000,000 48 months

**Porod, Wolfgang; Bernstein, Gary H.**  
NIRT: Nanoscale Magnetic Loop Devices for Magnetically-Coupled Computing Architectures  
National Science Foundation  
\$1,953,380 48 months

**Porod, Wolfgang; Brockman, Jay B.**  
NUE: A Freshman-Level Introduction to Nanotechnology Based on Scanning-Probe Instruments  
National Science Foundation  
\$99,232 12 months

**Sauer, Ken D.**  
Iterative Reconstruction Methods for Image Quality Enhancement in Helical Scan X-Ray CT  
Corporation  
\$33,702 12 months

**Seabaugh, Alan C.; Lent, Craig S.; Lieberman, Marya; Porod, Wolfgang; Snider, Gregory L.; Bernstein, Gary H.**  
Manufacturing Center for Integrated Nanosystems  
University of Houston  
\$5,284,401 60 months

**Seabaugh, Alan C.**  
NER: Nanopositioner-Based Lithography for Molecular Interconnects and Nanomachines  
National Science Foundation  
\$100,000 12 months

### English

**Hammill, Graham L.**  
Figuring Moses in the Secular State from Machiavelli to Spinoza to Freud  
Private Foundation  
\$30,000 9 months

**Hendler, Glenn S.**

Riot Acts: Race, Gender and Public Violence in 19th-Century  
American Literature

Private Foundation

\$50,000 9 months

**Hendler, Glenn S.**

Riot Acts: Race, Gender, and Public Violence in American  
Literature

Private Foundation

\$50,000 9 months

**Hendler, Glenn S.**

Riot Acts: Race, Gender, and Public Violence in 19th-Century  
American Literature

Private Foundation

\$40,000 9 months

**Hendler, Glenn S.**

Riot Acts: Race, Gender and Public Violence in American  
Literature

Private Foundation

\$40,000 9 months

**Hendler, Glenn S.**

Riot Acts: Race, Gender, and Public Violence in 19th-Century  
American Literature

Private Foundation

\$65,000 9 months

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**Film, Television, and Theatre**


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**Arons, Wendy K.**

Staging the Fair Sex

Private Foundation

\$35,000 9 months

**Arons, Wendy K.**

Staging the Fair Sex

Private Foundation

\$30,000 9 months

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**German and Russian Languages and  
Literatures**


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**Gasperetti, David W.**

Conceiving the Russian Novel: Toward the Golden Age, 1763-  
1849

Private Foundation

\$40,000 9 months

**Gillespie, Alyssa W.**

A Poet of Conscience: The Myth of Criminality in Pushkin's  
Poetics

National Endowment for the Humanities

\$5,000 2 months

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**Mathematics**


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**Alber, Mark S.**

Indiana Biocomplexity Consortium

National Institutes of Health

\$594,000 12 months

**Chandler, Karen A.**

Special Linear Systems and Infinitesimal Deformation Theory  
in Algebraic Geometry

National Science Foundation

\$103,147 36 months

**Himonas, Alex A.; Misiolek, Gerard K.**

Partial Differential Equations

National Science Foundation

\$234,156 36 months

**Hu, Bei**

Nonlinear Partial Differential Equations and Applications

National Science Foundation

\$71,527 36 months

**Nicholls, David P.**

Stable High Order Perturbation Methods in Fluid Mechanics,  
Acoustics, and Electromagnets

National Science Foundation

\$451,491 60 months

**Nicholls, David P.**

High Order Numerical Methods for Problems in  
Electromagnetic and Acoustic Scattering

Department of Navy

\$348,730 36 months

**Nicolaescu, Liviu**

Monopoles and Three Manifolds

National Science Foundation

\$75,063 36 months

**Smyth, Brian B.**

Geometry and Membrane Mechanics/Principal Foliations/  
Curvature at Singularities

National Science Foundation

\$162,852 36 months

## National Consortium for Graduate Degrees for Minorities, Engineering and Science

**Lucero, Cecilia**

NHGRI-T32 Training Grant

National Institutes of Health

\$243,655

12 months

### Philosophy

**Ameriks, Karl P.**

The Historical Turn and Philosophy as Interpretation

Private Foundation

\$36,000

9 months

**Ameriks, Karl P.**

The Historical Turn and Philosophy as Interpretation

Private Foundation

\$50,000

9 months

**Moss, Lenny**

Philosophical Anthropology: Rethinking the German Legacy in  
the Light of 21st-Century Science

Private Foundation

\$75,834

12 months

**Moss, Lenny**

Toward a New Philosophical Anthropology

Private Foundation

\$30,000

9 months

**Rea, Michael C.**

Against Presentism

Private Foundation

\$50,000

9 months

**Rea, Michael C.**

Against Presentism

Private Foundation

\$40,000

12 months

**Rea, Michael C.**

Against Presentism

Private Foundation

\$40,000

9 months

**Rea, Michael C.**

Against Presentism

Private Foundation

\$65,000

9 months

**Rea, Michael C.**

Against Presentism

Private Foundation

\$60,000

9 months

### Physics

**Hildreth, Michael D.**

A Demonstration the Electronic and Mechanical Stability of a  
PBM-Based Energy Spectrometer for e + e -Linear Collider

Cornell University

\$357,300

36 months

**Hildreth, Michael D.; Wayne, Mitchell R.; Ruchti, Randal C.**

Fast Response Tile Scintillation Development for Calorimetry  
and Tracking in NLC Detectors

Cornell University

\$168,877

36 months

**Kolata, James J.**

International: U.S.-Mexico Collaborative Research In RNB  
Physics

National Science Foundation

\$7,524

36 months

**Mathews, Grant J.**

Crossover

St. Mary's College

\$2,824

18 months

**Wayne, Mitchell R.**

Scintillator Based Muon System R&D University Consortium  
for a Linear Collider

Cornell University

\$173,275

36 months

### Political Science

**Botting, Eileen H.**

Wollstonecraft in America: The Impact of a Vindication of  
the Rights of Woman on the American Women's Rights  
Movement, 1792-1881

Private Foundation

\$6,000

4 months

**Hagopian, Frances; Schierling, Sharon K.**

Undergraduate International Studies and Foreign Language  
Program

Department of Education

\$160,020

24 months

**Keys, Mary M.**  
Humility and Modernity  
Private Foundation  
\$75,834

12 months

### **Program of Liberal Studies**

**Fallon, Stephen M.**  
The Author and His Work: Self-Representation in Milton's  
Poetry and Prose  
Private Foundation  
\$40,000

9 months

### **Psychology**

**Bergeman, Cindy S.**  
"Life Story" Project  
Private Foundation  
\$103,591

12 months

### **Radiation Laboratory**

**Ferraudi, Guillermo J.**  
Inorganic Macromolecules Containing Supramolecular Traids  
National Science Foundation  
\$6,000

24 months

**Guldi, Dirk M.**  
Composite Thin Films of Single Wall Carbon Nanotubes and  
Polymers  
Oklahoma State University  
\$324,076

48 months

### **Romance Languages and Literatures**

**Della Neva, Jo Ann**  
Theory and Practice of Minor Model Imitation in the French  
Renaissance  
Private Foundation  
\$40,000

9 months

**Perry, Catherine; McAdams, A.J.**  
The Nanovic Institute Film Series: The New Rebels in  
European Film: Britain and France  
Private Foundation  
\$1,500

5 months

**Perry, Catherine**  
Figures of Seduction and Vital Energy: Music and Dance in  
French Literature at the Turn of the 20th Century  
Private Foundation  
\$65,000

9 months

**Perry, Catherine**  
Figures of Seduction and Vital Energy: Music and Dance in  
French Literature at the Turn of the 20th Century  
Private Foundation  
\$40,000

9 months

### **Sociology**

**Cárdenas, Gilberto**  
Cook County's Changing Landscape: Census 2000 Analysis  
Project  
Private Foundation  
\$120,000

8 months

### **Theology**

**Leyerle, Blake**  
Traveling Space: Theorizing Early Christian Pilgrimage  
Private Foundation  
\$40,000

9 months

### Proposals for Instructional Programs

### **Psychology**

**Pope-Davis, Donald B.**  
Candax-ME McNair  
Department of Education  
\$1,625,789

60 months

# Centers and Institutes

## Awards Received and Proposals Submitted

	AWARDS RECEIVED		PROPOSALS SUBMITTED		AWARDS RECEIVED		PROPOSALS SUBMITTED	
	No.	Amount		Amount	No.	Amount	No.	Amount
Alliance for Catholic Education	0	\$0	0	\$0	1	\$86,000	0	\$0
Center for Astrophysics	1	\$17,928	1	\$2,824	1	\$17,928	1	\$921,111
Center for Environmental Science and Technology	0	\$0	0	\$0	1	\$80,000	0	\$0
Center for Flow Physics and Control	0	\$0	1	\$1,741,049	3	\$354,174	1	\$2,499,643
Center for Molecularly Engineered Materials	0	\$0	3	\$4,238,383	0	\$0	3	\$5,315,301
Center for Orphan Drug Development	0	\$0	0	\$0	1	\$0	0	\$0
Center for Transgene Research	0	\$0	1	\$297,000	3	\$1,023,510	1	\$2,335,541
Center for Tropical Disease Research and Training	1	\$480,976	3	\$444,130	6	\$3,515,490	3	\$1,055,245
Center for Zebrafish Research	0	\$0	0	\$0	0	\$0	0	\$334,125
Environmental Molecular Research Institute	0	\$0	0	\$0	0	\$0	0	\$7,460
Environmental Research Center	0	\$0	0	\$0	0	\$0	0	\$0
Freimann Animal Care Facility	0	\$0	0	\$0	0	\$0	0	\$5,020
Freimann Life Science Center	0	\$0	0	\$0	1	\$1,500	0	\$309,875
Higgins Labor Research Center	0	\$0	0	\$0	0	\$0	0	\$12,500
Institute for Educational Initiatives	0	\$0	0	\$0	0	\$0	0	\$0
Institute for Latino Studies	0	\$0	1	\$120,000	4	\$599,512	1	\$395,000
Interdisciplinary Center for the Study of Biocomplexity	1	\$5,000	1	\$594,000	1	\$5,000	1	\$594,000
Jacques Maritain Center	0	\$0	0	\$0	0	\$0	0	\$0
John A. Kaneb Center for Teaching and Learning	0	\$0	0	\$0	0	\$0	0	\$0
Kellogg Institute for International Studies	0	\$0	1	\$160,020	0	\$0	1	\$263,390
Keough Institute for Irish Studies	1	\$107,694	0	\$0	1	\$107,694	0	\$0
Kroc Institute for International Studies	0	\$0	0	\$0	0	\$0	0	\$15,000
Laboratory for Image and Signal Analysis	0	\$0	0	\$0	0	\$0	0	\$0
Laboratory for Social Research	0	\$0	0	\$0	0	\$0	0	\$247,992
Lobund Laboratory	0	\$0	0	\$0	0	\$0	0	\$513,280
Mendelson Center for Sport, Character, and Community	0	\$0	0	\$0	0	\$0	0	\$0
Nano Science and Technology Center	0	\$0	8	\$10,127,743	2	\$1,159,999	8	\$14,551,514
Nanovic Institute	0	\$0	1	\$1,500	0	\$0	1	\$16,176
Nuclear Structure Laboratory	0	\$0	0	\$0	0	\$0	0	\$0
Office of Special Instructional Projects and Activities	0	\$0	1	\$1,625,789	0	\$0	1	\$1,625,789
Program of Liberal Studies	0	\$0	1	\$103,591	0	\$0	1	\$103,591
Radiation Laboratory	1	\$20,000	2	\$330,076	1	\$20,000	2	\$330,076
Reilly Center for Science, Technology and Values	0	\$0	0	\$0	0	\$0	0	\$0
Robinson Learning Center	0	\$0	0	\$0	0	\$0	0	\$0
South Bend Center for Medical Education	0	\$0	0	\$0	0	\$0	0	\$395,500
TRIO Programs	1	\$393,768	0	\$0	2	\$636,901	0	\$0
Walther Cancer Center	0	\$0	0	\$0	0	\$0	0	\$3,133,815
<b>Total</b>	<b>6</b>		<b>25</b>	<b>\$19,786,105</b>	<b>28</b>		<b>25</b>	

## Awards Received

October 1, 2002 through October 31, 2002

### Awards for Research:

#### **Center for Astrophysics**

Confirmation of Black Hole, Planetary, and Binary  
Microlensing Events  
Private Foundation  
\$17,928 49 months

#### **Center for Tropical Disease Research and Training**

Experimental Parasitology and Vector Biology  
National Institutes of Health  
\$118,073 35 months

Cloning of Plasmodium-Refractoriness Genes in *A. Gambiae*  
National Institutes of Health  
\$362,903 12 months

#### **Interdisciplinary Center for the Study of Biocomplexity**

Symposium: The Role of Tissue Mechanics in Biological  
Responses to Mechanical Loading  
Private Foundation  
\$5,000 4 months

#### **Keough Institute for Irish Studies**

Anglo-Irish Identities: 1600-1800  
National Endowment for the Humanities  
\$107,694 12 months

#### **Radiation Laboratory**

Mechanism of Indo Dye Formation and Its Stability in Hair  
Proteins  
Corporation.  
\$20,000 3 months

### Awards for Research:

#### **TRIO Programs**(Center or Institute)

Talent Search  
Department of Education  
\$393,768 48 months

## Proposals Submitted

October 1, 2002 through October 31, 2002

### Proposals for Research:

#### **Center for Astrophysics**

Crossover  
St. Mary's College  
\$2,824 18 months

#### **Center for Flow Physics and Control**

NIRT: Hybrid Continuum-Molecular Dynamics Modeling of  
Microflows  
National Science Foundation  
\$1,741,049 48 months

#### **Center for Molecularly Engineered Materials**

NIRT: Luminescent Semiconductor Nanostructures for *in-situ*  
Sensing and Remediation of Organic Contaminants in  
Supercritical Carbon Dioxide  
National Science Foundation  
\$1,228,149 48 months

IGERT: Integrated Phd Training in Carbon Science and  
Technology with Business Practice  
National Science Foundation  
\$2,645,600 60 months

#### **Center for Molecularly Engineered Materials**

Nanosphere Biophotonic Sensors  
National Science Foundation  
\$364,634 36 months

#### **Center for Transgene Research**

Pathological Consequences of the Plasminogen System  
National Institutes of Health  
\$297,000 12 months

#### **Center for Tropical Disease Research and Training**

Sensitive Proteomic Methods to Study Malarial Proteins  
National Institutes of Health  
\$208,264 12 months



Cloning and Characterization of the 2Rj Inversion Breakpoints  
of *Anopheles gambiae*

Private Foundation

\$15,000 12 months

Species Boundaries in the *Anopheles gambiae* Complex

National Institutes of Health

\$220,866 12 months

### **Institute for Latino Studies**

Cook County's Changing Landscape: Census 2000 Analysis  
Project

Private Foundation

\$120,000 8 months

### **Interdisciplinary Center for the Study of Biocomplexity**

Indiana Biocomplexity Consortium

National Institutes of Health

\$594,000 12 months

### **Kellogg Institute for International Studies**

Undergraduate International Studies and Foreign Language  
Program

Department of Education

\$160,020 24 months

### **Nano Science and Technology Center**

NER: Hierarchical Self-Assembly of DNA Tiles

National Science Foundation

\$99,999 12 months

Advanced GaAsSb/InP HBT Design and Fabrication

DARPA

\$358,731 36 months

Inductive Coupling of Pulses to Implanted Electrodes for Deep  
Brain Stimulation

Private Foundation

\$232,000 24 months

NER: Nanopositioner-Based Lithography for Molecular  
Interconnects and Nanomachines

National Science Foundation

\$100,000 12 months

NUE: A Freshman-Level Introduction to Nanotechnology  
Based on Scanning-Probe Instruments

National Science Foundation

\$99,232 12 months

Manufacturing Center for Integrated Nanosystems

University of Houston

\$5,284,401 60 months

NIRT: Field-effect Switching of Molecular Charge  
Configurations for QCA

National Science Foundation

\$2,000,000 48 months

NIRT: Nanoscale Magnetic Loop Devices for Magnetically-  
Coupled Computing Architectures

National Science Foundation

\$1,953,380 48 months

### **The Nanovic Institute**

The Nanovic Institute Film Series: The New Rebels in  
European Film: Britain and France

Private Foundation

\$1,500 5 months

### **Program of Liberal Studies**

"Life Story" Project

Private Foundation

\$103,591 12 months

### **Radiation Laboratory**

Composite Thin Films of Single Wall Carbon Nanotubes and  
Polymers

Oklahoma State University

\$324,076 48 months

Inorganic Macromolecules Containing Supramolecular Traids

National Science Foundation

\$6,000 24 months

### Proposals for instructional Programs:

### **Office of Special Instructional Projects and Activities**

Candax-ME McNair

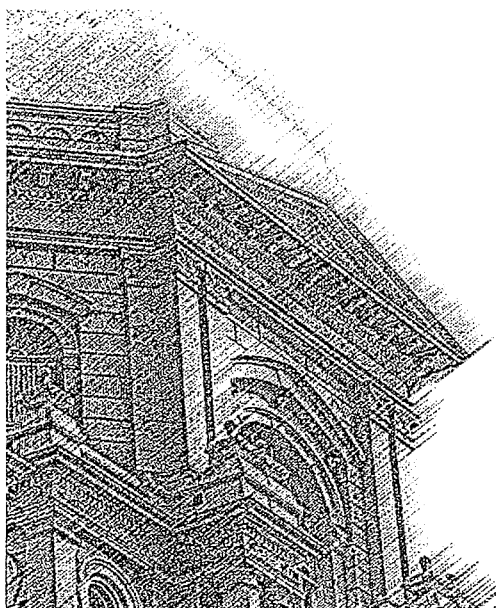
Department of Education

\$1,625,789 60 months

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# Notre Dame Report

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