

Notre Dame Report

Faculty Notes

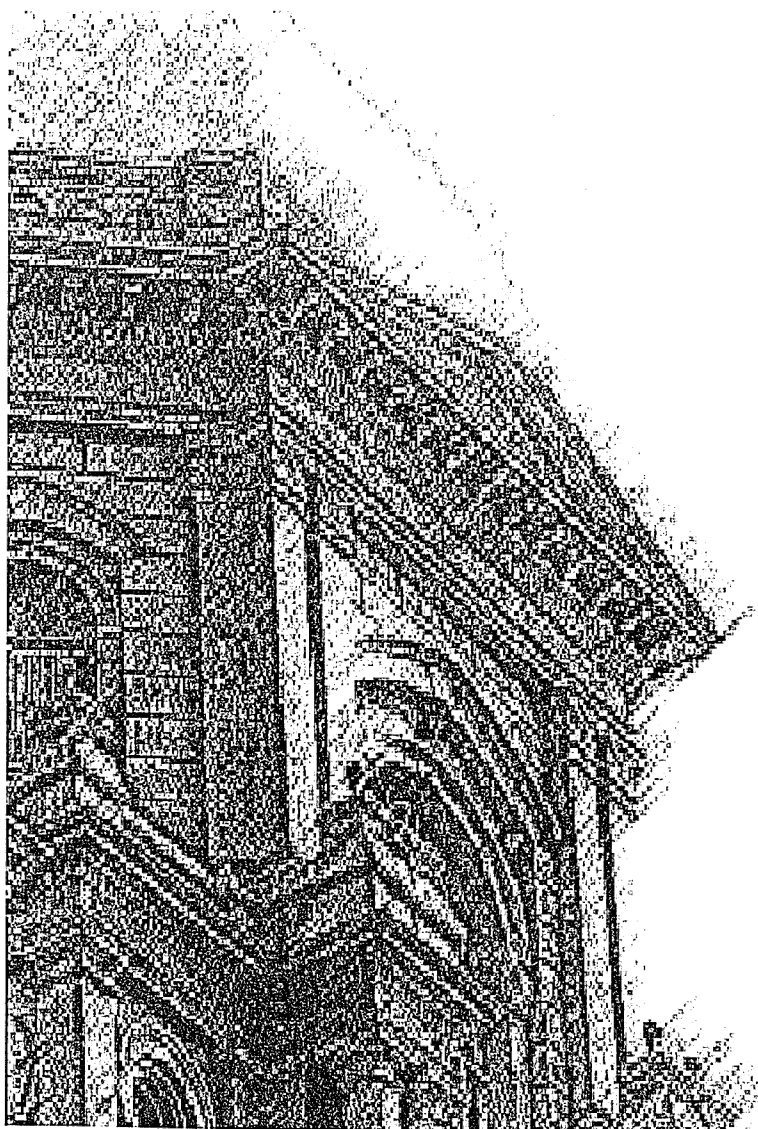
- 411 Honors
- 411 Activities
- 413 Publications

Administrators' Notes

- 414 Appointments
- 414 Honors

Documentation

- 414 University Committee on Libraries—
March 4, 2005
- 415 Research - March 2005



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N U M B E R 1 6

Faculty Notes

Honors

Ani Aprahamian, professor of physics, was elected to the International Advisory Committee for the Ninth Topical Conference on Giant Resonances, "Collection Motion in Nuclei under Extreme Conditions," to be held June 20–23, 2006, in Germany.

J. Douglas Archer, librarian, was named to a three year-term on the Intellectual Freedom Committee of the Indiana Library Federation.

Ikaros I. Bigi, professor of physics, was appointed to the Lepton Collider Program Advisory Committee, KEK, Tsukuba City, Japan; was elected a fellow of the American Physical Society and was cited for correctly predicting large CP violation in B meson decays; and was named winner of the 2004 J.J. Sakurai Prize in Theoretical Particle Physics "for pioneering theoretical insights that pointed the way to the very fruitful experimental study of CP violation in B decays, and for continuing contributions to CP and heavy flavor physics."

Malgorzata Dobrowolska-Furdyna, professor of physics, was elected a fellow of the American Physical Society and was cited for her seminal contributions to the understanding of the role of electron spin in optical transitions in semiconductor compounds.

Julia Douthwaite, professor of Romance Languages and Literatures, fellow in the Nanovic Institute, and assistant provost for International Studies, was named advisory editor of the scholarly journal *Eighteenth-Century Studies* for a three-year term of service.

Jacek K. Furdyna, professor of physics, was elected a fellow of the Institute of Physics in the U.K., in recognition of his status in the physics community.

Carol Tanner, associate professor of physics, was installed as chair of the Topical Group on Precision Measurements and Fundamental Constants at the April 2005 meeting of the American Physical Society.

Activities

Mark S. Alber, professor of mathematics and concurrent professor of physics, presented "Two-Stage Aggregate Formation via Streams in Myxobacteria" in the "Special Session on Biological Computation" and chaired the "Special Session on Advances in the Biological Physics of Morphogenesis" at the annual meeting of the American Physical Society on March 24 in Los Angeles.

Ani Aprahamian, professor of physics, presented the seminar "Aspects of Nuclear Structure in Astrophysics: Following the Light in the Universe," Indiana Univ. Cyclotron Facility, Bloomington, Feb. 25.

Wendy Arons, assistant professor in Film, Television, and Theatre and fellow in the Nanovic Institute, presented "Ventriloquism" and participated in a roundtable discussion on "Performance Studies and Historiography" at the "Performance Studies International Conference," Brown Univ., Providence, March 30 through April 3.

Dinshaw S. Balsara, assistant professor of physics, presented the invited talk "Amplification of Interstellar Magnetic Fields by Supernova-Driven Turbulence" at an Isaac Newton Institute workshop, "Large-Scale Computation in Astrophysics," Cambridge Univ., Oct. 11–15.

Joseph P. Bauer, professor of law, was an invited speaker at the "Conference on Liti-gating Conspiracy" at the Univ. of Western Ontario, London, Ontario, on April 1.

Ikaros I. Bigi, professor of physics, presented the "High Energy Physics Colloquium" at LNF Frascati, Italy, July 9; two invited lectures at FPCP04 in Daegu, Korea, Oct. 6 and 8; an invited talk at the "V(xb) Workshop," Nagoya Univ., Japan, Oct. 14; the "High Energy Physics Colloquium" at Michigan State Univ., East Lansing, Oct. 27; the "High Energy Physics Colloquium" at SLAC, Stanford Univ., Dec. 9; and an invited talk at the "V(ub)SF Workshop, SLAC, Dec. 11.

Neal M. Cason, professor of physics, presented the colloquium "Exotic Mesons: From Discovery to Spectroscopy" at the Univ. of Alabama, Tuscaloosa, March 23.

Philippe Collon, assistant professor of physics, presented the invited seminar "Accelerator Mass Spectrometry: From Tracing Oceans to Nuclear Astrophysics (and RIA)" for the Dept. of Physics, Western Michigan Univ., Kalamazoo, Oct. 4; and the invited seminar "Accelerator Mass Spectrometry: From Tracing Oceans to Nuclear Astrophysics" at the National Superconducting Accelerator Laboratory, Michigan State Univ., East Lansing, Jan. 19.

William G. Dwyer, the Hank Professor of Mathematics, was an invited participant in the workshop on Goodwillie Calculus held at the Banff International Research Station, Canada, April 2–7, where he presented "Goodwillie Calculus and Localization."

Agustin Fuentes, associate professor of anthropology, co-organized the symposium "The Human-Nonhuman Primate Interface: History, Evolution and Conservation, The Third Annual Wiley-Liss Symposium" at the 74th annual meeting of the American Association of Physical Anthropologists, Milwaukee, where he presented "Human-Nonhuman Primate Interconnections and Their Relevance to Biological Anthropology" and was a panel discussant for the "American Association of Physical Anthropologists Ethics Discussion Panel."

Jacek K. Furdyna, professor of physics, presented "Electronic Effects on the Growth and Composition of Ferromagnetic $\text{III}_{1-x}\text{Mn}_x\text{V}$ Semiconductors" at the "International Conference on Low-Dimensional Semiconductor Structures," Mautendorf, Austria, Feb. 15–21, 2004; "Magnetic Anisotropy in Ferromagnetic III-Mn-V Semiconductors: Issues and Observations," an invited talk, at the annual meeting of the German Physical Society, Regensburg, Germany, March 7–12, 2004; "Electronic Effects on the Growth and Composition of Ferromagnetic $\text{III}_{1-x}\text{Mn}_x\text{V}$ Semiconductors" at the Univ. of Michigan "Materials Engineering Seminar," April 2, 2004; "Controlling Ferromagnetic Properties of Ultra-Thin Ga(1-x)Mn(x)As Films by Remote p-Type Doping," an invited talk, at the "Argonne Workshop on Nanomagnetism" May 4, 2004; "Fermi Level Effects on

Mn Incorporation in Modulation-Doped Ferromagnetic $\text{III}_{1-x}\text{Mn}_x\text{V}$ Heterostructures," an invited talk, at the "International Conference on Nanospintronics Design and Realization," Kyoto, Japan, May 24–28; an invited overview on ferromagnetic semiconductors at the "Gordon Conference on Defects in Semiconductors," New London, N.H., July 18–23; the invited talk "Magneto-Optical Study of Nonmagnetic Quantum Dots Coupled to a Magnetic Semiconductor Quantum Well" at the annual meeting of the European Materials Research Society, Warsaw, Sept., 5–11; the colloquium "Coupled Magnetic Quantum Dots" at the Institute of Physics, Polish Academy of Sciences, Warsaw, Sept. 16; and "Spintronics and Spin-Photonics in InAs/GaSb-Based Heterostructures" at the "Spins in Semiconductor Program Review" of the Defense Advanced Research Programs Agency, San Francisco, Oct. 24–29.

Umesh Garg, professor of physics, presented the colloquium "Experimental Determination of Nuclear Incompressibility" for the Physics Dept., Panjab Univ., Chandigarh, India, Jan. 28; the colloquium "How Far Can You Squeeze a Star?" for the Physics Dept., Clark Atlanta Univ., Feb. 11; and "How Far Can You Squeeze a Star: Experimental Determination of Nuclear Incompressibility," an invited talk, at the "2005 Joint Annual Conference of the National Society of Black Physicists and the National Society of Hispanic Physicists," Orlando, Feb. 16–19.

Nicole Stelle Garnett, associate professor of law, was coauthor of an *amicus curiae* brief on behalf of legal scholars before the U.S. Supreme Court in *Kelo v. New London*; hosted a open meeting of the National Prison Rape Elimination Commission, Notre Dame, March 31; and moderated "Prisoner Rape and Prison Reform," *Notre Dame Journal of Legislation Symposium*, Notre Dame Law School, March 31.

Richard W. Garnett, associate professor of law, presented "Free Speech, Public Property, and Government Money" at "The Rehnquist Legacy" conference, Indiana Univ. School of Law in Bloomington, April 1–2; and presented at a panel discussion on "The Shiavo Case," Notre Dame Law School, March 30.

Meredith J. Gill, assistant professor of art history, presented "Forgery, Faith, and Divine Hierarchy after Lorenzo Valla" at the international, interdisciplinary conference "Revisioning High Renaissance Rome" at the Univ. of Edinburgh on April 5; and "Speaking Books and Moving Images: Augustinian Conversion" at the "Renaissance Society of America Annual Conference" in Cambridge, U.K., on April 9.

Jan L. Hagens, assistant professor of German, presented "From Romantic to Familial Love: Comparing Lessing's *Nathan the Wise*, Goethe's *Iphigenia among the Taurians*, and Kleist's *The Prince of Homburg*," and chaired a panel on "Theorizing the Artist and the Audience" at "Text and Presentation: Comparative Drama Conference IXXX," California State Univ., Northridge, April 1–3.

Claudia Kselman, professional specialist in the office of International Studies, presented "Facilitating Study Abroad from the U.S. Campus Perspective: Issues and Priorities for Registrars" at the annual meeting of the American Association of Collegiate Registrars and Admissions Officers, in New York, March 30; and organized and chaired the panel "Will It Count: Credits and Grades in Direct Enrollment Programs" for the annual meeting of NAFSA, the Association of International Educators, in Baltimore, May 26, 2004.

John M. LoSecco, professor of physics, presented "Double Chooz, A $\bar{\nu}_e$ Experiment to Measure θ_{13} ," at the Experimental Physics Seminar, Brookhaven National Laboratory, N.Y., March 24.

Edward J. Maginn, associate professor of chemical and biomolecular engineering, presented the invited seminars "Development of New Molecular Dynamics Sampling Methods for Phase Equilibria Calculations," Dept. of Chemical Engineering, Carnegie-Mellon Univ., March 17; "In Search of Environmentally Benign Solvents: Are Ionic Liquids the Right Solution?" to the Dept. of Chemical and Petroleum Engineering, Univ. of Pittsburgh, March 18; and "That's a Salt? The Properties and Potential Uses of Ionic Liquids," Dept. of Chemical Engineering, Texas Tech Univ., April 1.

Lenny Moss, assistant professor of philosophy, Nanovic Institute fellow, and fellow

of the Reilly Center, presented "Habermas, Human Nature and the Anthropological Framework of Critical Theory" at the Pacific Division meeting of the American Philosophical Association, March 24.

Rev. Ronald J. Nuzzi, director, ACE Leadership Program, presented three sessions at the annual National Catholic Educational Association convention in Philadelphia, April 4–8, titled: "Doctoral Dissertations on Catholic Education: Advancing Theory and Practice," "Catholic Schools in the USA: An Encyclopedia," and "Why A Catholic Education Matters: Ten Things You Cannot Get Anywhere Else"; and presented a professional inservice day for Catholic school teachers and principals in Stark County, Ohio, April 8, titled "Celebrating Our Success: Research on Catholic School Effectiveness," Louisville.

Dorothy Pratt, assistant dean in Arts and Letters, gave a series of invited lectures for the ND alumni tour in March.

Robert P. Sedlack, assistant professor of design, presented the invited talk "Graphic Identities: The Process and Product of Logo Design" at a meeting of the Michiana chapter of the American Marketing Association, Feb. 17.

Mei-Chi Shaw, professor of mathematics, gave an invited talk in the Southern California Geometric analysis conference at the Univ. of California at Irvine, titled "Estimates for the $d\bar{\partial}$ -Neumann Operator in Complex Projective Spaces with Applications" on Feb. 19.

Yang Sun, visiting associate professor of physics, presented "Nuclear Astrophysics: Physicists Unite behind Big Ideas" at a colloquium at Indiana Univ. South Bend, Feb. 10.

Julia Adeney Thomas, associate professor of history, was a commentator on a panel called "Ecology and the Industrial State: The Beginnings of Environmentalism in Modern Japan" at the meeting of the Association of Asian Studies Conference in Chicago on April 2.

Eugene Ulrich, the O'Brien Professor of Theology, presented two adult enrichment classes on "The Dead Sea Scrolls and the Bible" at First Presbyterian Church, South Bend, on Feb. 20 and 27; and the lecture "The Impact of the Dead Sea Scrolls on

Our Bible," accompanying the Dead Sea Scrolls exhibition at the Gulf Coast Exploration, Mobile, April 19.

Rev. Oliver F. Williams, C.S.C., director of the Center for Ethics and Religious Values in Business and fellow of the Kroc Institute, presented "The United Nations Global Compact: The Moral Purpose of Business" to the New York City Notre Dame Alumni Club, March 14; and "The Challenge: To Avoid Checking Our Spiritual Values at the Office Door," Executive MBA Retreat, Notre Dame, March 18.

Robin Darling Young, associate professor of theology, presented "Exile and Return in *The Hymn of the Pearl*" at the Univ. of Toronto, March 21; and "The Heart, The Mirror and the Art of Memory in *The Hymn of the Pearl*" for the Canadian Society for Syriac Studies, March 23.

Publications

David E. Campbell, assistant professor of political science, and a fellow of the Institute for Educational Initiatives, published "Contextual Influences on Participation in School Governance," *Besieged: School Boards and the Future of Education Politics*, ed. W.G. Howell (Washington, DC: Brookings Institution Press, 2005).

Jay A. LaVerne, professional specialist in the Radiation Laboratory, published "Decomposition of Hydrogen Peroxide at Water-Ceramic Oxide Interfaces" with A. Hiroki, *Journal of Physical Chemistry B* 109, No. 8 (2005): 3364–3370; and "H₂ and Cl₂ Production in the Radiolysis of Calcium and Magnesium Chlorides and Hydroxides" with L. Tandon, *Journal of Physical Chemistry A* 109, No. 12: 2861–2865.

A. Eugene Livingston, professor of physics, published "2s²1S₀-2s2p ³P₁ Intercombination Transition Wavelengths in Be-like Ag⁴³⁺, Sn⁴⁶⁺, and Xe⁵⁰⁺ Ions" with D. Feili, et al., *Physica Scripta* 71 (2005): 48–51.

John M. LoSecco, professor of physics, published "Detector Depth Dependence of the High Energy Neutrino Flux," *Physical Review B* (Proceedings Supplements) 143 (2005): 577.

Edward J. Maginn, associate professor of chemical and biomolecular chemistry,

published "Synthesis, Structural Characterization, and Molecular Modeling of Dodecaniobate Keggin Chain Materials" with F. Bonhomme, J.P. Larentzos, and M. Nyman, *Inorganic Chemistry* 44 (2005): 1774–1785; and "Anion Effects on Gas Solubility in Ionic Liquids" with J.L. Anthony, J.L. Anderson, and **Joan F. Brennecke**, the Keating-Crawford Professor of Chemical Engineering, *Journal of Physical Chemistry B* 109 (2005): 6366–6374.

John M. Mahoney, adjunct professor of chemistry and biochemistry, published "Molecular Recognition of Trigonal Oxyanions Using a Ditopic Salt Receptor: Evidence for Anisotropic Shielding Surface around Nitrate Anion" with K.A. Stucker; H. Jiang; **Ian Carmichael**, professional specialist and director of the Radiation Laboratory, N.R. Brinkmann; **Alicia M. Beatty**, associate professor of chemistry and biochemistry; **Bruce C. Noll**, research associate professor of chemistry and biochemistry; and **Bradley D. Smith**, professor of chemistry, *Journal of the American Chemical Society* 127, No. 9 (2005): 2922–2928.

John Matthias, professor of English, published *New Selected Poems* (Cambridge: Salt Publications, 2004): 387 pp.; "The Co-Translator's Dilemma," *PEN America* 3m No. 6 (spring): 157–159; and a translation of J. Svenbro's "A Critique of Pure Representation" and "The Lake School Manifesto," both with L.-H. Svensson, in *Verse: The Second Decade* 21, Nos. 1–3 (spring): 542–543.

Juan Migliore, professor of mathematics, published "Tetrahedral Curves," written with U. Nagel, in *International Mathematics Research Notices* 2005, No. 15 (2005): 899–939.

Alven M. Neiman, professional specialist in the Dept. of Philosophy, published "Soul Sickness and Salvation: Therapy and the Art of Philosophy" in C. Higgins, ed., *Philosophy of Education* 2004 (Urban, Ill.: The Philosophy of Education Society and The Univ. of Illinois at Urbana Champaign, 2005): 304–307.

Bruce C. Noll, research associate professor of chemistry and biochemistry, published "[Fe(TPP)(THF)₂]" with **W. Robert Scheidt**, the Warren Professor of Chemistry and Biochemistry; and C.-J. Hu, *Acta Crystallographica Section E (Structure Reports Online)*: E61 m830–m831.

William O'Rourke, professor of English, published "What It's Like to Have a Heart Attack," *Indy Men's Magazine* 3, No. 6 (February): 33–35+.

Dorothy Pratt, assistant dean in Arts and Letters, published the entry "Abraham Lincoln" in the *Berkshire Encyclopedia of World History*, W.H. McNeill, ed. (2005).

Jim A. Seida, assistant professor of accountancy, published "Quantifying the Costs of Intertemporal Taxable Income Shifting: Theory and Evidence from the Property-Casualty Insurance Industry" with D.W. Randolph and G.L. Salamon, *The Accounting Review* 80, No. 1 (January): 315–348.

Mei-Chi Shaw, professor of mathematics, published "Holder and L^p Estimates for Δ on CR Manifolds of Arbitrary Codimension" with L. Wang, *Mathematische Annalen* 331 (2005): 297–343; "Boundary Holder and L^p Estimates for Local Solutions of the Tangential Cauchy-Riemann Equation" with C. Laurent-Thiebaud, *Transactions of American Mathematical Society* 357 (2005): 151–177; and "The Smoothness of Riemannian Submersions with Nonnegative Sectional Curvature" with J. Cao, *Communication in Contemporary Mathematics*, 7 (2005): 1–8.

Marina Smyth, librarian, published "The Date and Origin of *Liber de ordine creaturarum*" in *Peritia: Journal of the Medieval Academy of Ireland* 17–18 (2003–2004): 1–39.

Richard E. Taylor, director of Graduate Studies and professor of chemistry and biochemistry, published "Total Synthesis of (+)-Peloruside A" with M. Jin, *Organic Letters* 7, No. 7 (2005): 1303–1305.

Eugene Ulrich, the O'Brien Professor of Theology, published (with F. Moore Cross, et al.) "Qumran Cave 4, XII: 1–2 Samuel," *Discoveries in the Judean Desert* 17 (Oxford: Clarendon Press, 2005): xix + 271 pp. + XXVII plates.

Michael Wiescher, the Friemann Professor of Physics, published "The Reactions and Ashes of Thermonuclear Explosions on Neutron Stars" with J.L. Fisker, et al., *Nuclear Physics A* 752 (2005): 604–607c.

Administrators' Notes

Appointments

Robert McQuade has been appointed associate vice president for human resources, effective May 16.

Honors

Jeffrey R. Shoup, director of Residence Life and Housing, received the "Outstanding Service to the Commission for Campus Judicial Affairs and Legal Issues Award" at the annual American College Personnel Association convention in Nashville, April 1-5.

Documentation

University Committee on Libraries

March 4, 2005

The meeting was called to order at Café de Grasta by Chairman David Smith. Also in attendance were John Adams, Craig Barbo-lla, Susan Blum, Roger Jacobs, Brian Pitts (for Wesley Calvert), Walter "Jack" Pratt, Charles Rosenberg, Andrew Sommese, John Weber, and Jennifer Younger.

The minutes of the meeting of February 21, 2005 were approved as written.

Chair's report: Smith reviewed the time line and content for the committee's annual report for 2004/05.

Director's report. Younger reported on the budget for FY05/06. There is good news. The provost provided an additional \$300,000 in recurring funds for the library acquisitions budget, in clear recognition of the need to retain critical journal subscriptions and book purchases. Increasing graduate stipends was another very high priority in the University budget for the next year, and Younger commended the provost for providing funds to the library. The 1% increase in the non-salary budget and endowment income added about \$150,000 as

well to the library acquisition budget, for a total increase of about \$450,000.

A lengthy discussion followed about the library acquisition budget. Younger will provide members with relative expenditure data by college, as well as data on relative expenditures for books and serials. Members inquired as to the number and scope of subject funds. Younger will provide information on that as well. The suggestion was made that perhaps all endowments for acquisitions could be assessed some percent of annual income in support of general and/or interdisciplinary books and serials.

Younger also mentioned the document delivery pilot project to offer unmediated access to journal articles is underway. This will allow faculty and graduate students in the Biological Sciences and Psychology Departments, and the College of Engineering, to obtain journal articles directly from the journal publisher, which is expected to take less time than sending the request to the interlibrary loan staff.

Smith proposed additional content to be added to the committee's web page, which is now accessible on the library site. All agreed to expanding the content, which would include links to announcements about the Graduate School funds awarded to the library, links to statements by other

universities and libraries on various issues, library reports such as the Report to the Academic Council, March 2002, and an article on the high cost of scholarly publishing.

Younger mentioned that last year the Office of Information Technologies asked the University Libraries to assume responsibility for the campus search engine. The library agreed to do so and is now consulting faculty and students about desired functionality in a campus search engine. Sommese suggested a search engine such as Google be purchased. Younger agreed this is a good option. Rosenberg stated he hopes the Libraries could obtain new funding for such a purchase. Younger also agreed this would be very desirable. Committee members indicated some interest in hearing more about this project.

Smith noted the success of the recent campus lectures by Dr. Peter Suber on the topic of open access to peer-reviewed research articles and preprints. Adams would like to see the library establish a digital repository and provide instruction to faculty on how to supply articles to a campus preprint archive. He noted preprints can be peer-reviewed or not as determined by the copyright agreement between the author and the journal publisher. Smith noted that not all journals would permit authors to post the final version of their articles to a preprint archive although some do.

The next meeting is scheduled for April 1, 2005.

Respectfully submitted,

Dave Smith, UCL Chair and Jennifer Younger, Edward H. Arnold Director of University Libraries (in the absence of the secretary)

Research

Awards and Proposal Summary

03/01/2005 to 03/31/2005

Awards Received

Category	No.	Amount
Research	23	\$3,128,637
Total:	23	\$3,128,637

Proposals Submitted

Category	No.	Amount
Research	59	\$17,534,715
Instructional Programs	3	\$333,147
Total:	62	\$17,867,862

March 2005 Cumulative summary

Awards Received

	07.01.2002 - 03.31.2003		07.01.2003 - 03.31.2004		07.01.2004 - 03.31.2005	
Category	No.	Amount	No.	Amount	No.	Amount
Research	258	\$43,902,214	289	\$43,608,594	259	\$52,854,634
Facilities and Equipment						
Instructional Programs	10	\$1,333,710	8	\$1,166,443	2	\$44,000
Other Programs			1	\$62,500		
Service Programs						
Total:	268	\$45,235,924	298	\$44,837,537	261	\$52,898,634

Proposals Submitted

	07.01.2002 - 03.31.2003		07.01.2003 - 03.31.2004		07.01.2004 - 03.31.2005	
Category	No.	Amount	No.	Amount	No.	Amount
Research	435	\$124,893,919	565	\$200,215,788	599	\$177,029,870
Facilities and Equipment						
Instructional Programs	8	\$3,278,078	6	\$491,350	14	\$2,955,803
Other Programs						
Service Programs						
Total:	443	\$128,171,997	571	\$200,707,138	613	\$179,985,673

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 that 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 research@nd.edu or 631-4670 if you are aware of any proposals or awards that have not been properly credited to a center or institute.

Awards received during the period Mar-01-2005 to Mar-31-2005

Investigator(s)	Title	Sponsor	Dollars	Months
<u>Awards for Research</u>				
Department or Office: ACE Educational Outreach				
Johnstone, Joyce V.	ACE Replication Project	Corporate Funding	\$50,000	60
Department or Office: Aerospace and Mechanical Engineering				
Sen, Mihir	Adaptation and Implementation of Intelligent Systems Course and Lab	Ohio Northern University	\$16,148	24
Thomas, Flint O.	Cavitation Suppression in Piston Fuel Pumps	Corporate Funding	\$121,943	33
Powers, Joseph M.				
Corke, Thomas C.				
Dunn, Patrick F.				
(Center or Institute)				
Department or Office: Anthropology				
Kuijt, Ian	Early Village Social Organization and Food Production	National Endowment for the Humanities	\$40,000	12
Department or Office: Biological Sciences				
Ferdig, Michael T.	Genetic Control of Cross-Resistance in Plasmodium Falciparum	National Institutes of Health	\$334,125	60
(Center or Institute)				
Hellmann, Jessica J.	Predicting the Impact of Climate Change on Animal Distributions: The Importance of Local Adaptation and Species' Traits	Department of Energy	\$293,555	24
Li, Lei	Centrifugal Modulation of Vertebrate Visual Sensitivity	National Institutes of Health	\$222,750	24
(Center or Institute)				
McDowell, Mary A.	Interleukin-12 Regulation in Leishmania Infected Human Dendritic Cells	National Institutes of Health	\$285,000	59
(Center or Institute)				

Awards received during the period Mar-01-2005 to Mar-31-2005

Investigator(s)	Title	Sponsor	Dollars	Months
Schorey, Jeffrey S. (Center or Institute)	Macrophage Signaling Upon M. Avium Infection	National Institutes of Health	\$300,000	48
Vihetic, Thomas S. (Center or Institute)	Development of Wild-Type and Mutant Zebrafish Lens	National Institutes of Health	\$259,875	36
Department or Office:	Chemical Engineering			
Palmer, Andre F. (Center or Institute)	Engineering Artificial Cells	National Science Foundation	\$74,886	57
Department or Office:	Chemistry and Biochemistry			
Miller, Marvin J.	Design, Syntheses and Studies of Novel Antituberculous Agents	National Institutes of Health	\$331,951	36
Mobashery, Shahriar	Penicillin-Binding Proteins, Mechanisms and Inhibition	National Institutes of Health	\$277,500	48
Department or Office:	Computer Science & Engineering			
Chandra, Surendar Flynn, Patrick J.	Hydra: A robust and self-managing video sensing system for retrospective surveillance	National Science Foundation	\$222,950	11
Department or Office:	Electrical Engineering			
Porod, Wolfgang Fay, Patrick J. Bernstein, Gary H. (Center or Institute)	Focal Plane Array Processors with Adaptive Visual Range and Nanoantenna Sensors	Corporate Funding	\$21,000	6
Porod, Wolfgang Fay, Patrick J. Bernstein, Gary H. (Center or Institute)	Multispectral Nanoantenna Infrared Sensors	Corporate Funding	\$30,000	6

Awards received during the period Mar-01-2005 to Mar-31-2005

Investigator(s)	Title	Sponsor	Dollars	Months
Seabaugh, Alan C. (Center or Institute)	Student Travel Support Department of Navy for the Device Research Conference		\$5,000	12
Department or Office: History				
Appleby, Robert S. (Center or Institute)	Indiana Center for Cultural Exchange, Purdue University	Purdue University	\$13,188	12
Department or Office: Mathematics				
Polini, Claudia Migliore, Juan C.	Midwest Algebra, Geometry and Their Interactions Conference	National Science Foundation	\$20,000	12
Sigal, Israel Michael	Quantum and Classical Evolution	National Science Foundation	\$109,685	36
Department or Office: Physics				
Garnavich, Peter M. (Center or Institute)	Towards a Comprehensive Understanding of Type Ia Supernovae	Private Foundation	\$12,000	24
Department or Office: Political Science				
Welna, Christopher J (Center or Institute)	Building Capacity for Social Progress: A Partnership for Leadership Development	Department of Education	\$62,081	12
Department or Office: Sociology				
Cardenas, Gilberto (Center or Institute)	Latino Leadership Evaluation Dissemination	Private Foundation	\$25,000	12

Proposals submitted during the period Mar-01-2005 to Mar-31-2005

Investigator(s)	Title	Sponsor	Dollars	Months
<u>Proposals for Research</u>				
Department or Office:	Aerospace and Mechanical Engineering			
Corke, Thomas C.	Plasma Assisted Aerodynamic Control System for Munition Maneuvering	Corporate Funding	\$260,000	24
Jumper, Eric J. Cavalieri, David Rennie, Robert M. Gordeyev, Stanislav V.	Year 2: Aero-Optical Modeling and Validation for HEL Systems	Corporate Funding	\$209,975	12
Jumper, Eric J.	Toward Adaptive-Optic Mitigation of Aero-Optic Effects	Department of the Air Force	\$203,189	36
Morris, Scott C.	Experimental Measurements of a Low Noise Trailing Edge	Stanford University	\$20,000	9
Nelson, Robert C.	The Flow Physics of Controlling the Leading Edge Vortex	Clarkson University	\$228,349	36
Roeder, Ryan K. Niebur, Glen L.	Contrast Agents for Micro-Computed Tomography of Microdamage in Bone	Department of Army	\$791,625	48
Department or Office:	Biological Sciences			
Besansky, Nora J.	The 2Rj inversion breakpoint of An. gambiae: molecular diagnosis and characterization.	World Health Organization	\$30,501	12

Proposals submitted during the period Mar-01-2005 to Mar-31-2005

Investigator(s)	Title	Sponsor	Dollars	Months
Boyd, Sunny K.	Neuropeptide Modulation of a Vocal Motor Pathway	National Science Foundation	\$5,611	12
Fraser, Malcolm J. Severson, David W. Collins, Frank H.	Developing site-specific recombinases for transgenesis and functional genomics in mosquitoes	National Institutes of Health	\$589,644	12
Fraser, Malcolm J.	Transgenic Engineering of Aedine Mosquitos	National Institutes of Health	\$428,700	12
Hinchcliffe, Edward H.	Cell and Physiological Dynamics Live Cell Confocal Microscope	National Institutes of Health	\$386,515	12
Lamberti, Gary A.	The Toxicity of ionic liquids to a vascular plant (Lemna Minor) in the presence of dissolved organic matter	Indiana Academy of Science	\$2,307	7
Lamberti, Gary A.	Effects of Room-Temperature Ionic Liquids on Species Interactions: Experiments with Algae and Daphnia	Indiana Academy of Science	\$2,350	3
Lamberti, Gary A.	The spread and impacts of invasive species in U.S. rivers and streams: A multi-species approach	Indiana Academy of Science	\$2,555	14

Proposals submitted during the period Mar-01-2005 to Mar-31-2005

Investigator(s)	Title	Sponsor	Dollars	Months
Li, Lei	Searching for visual system mutations in adult zebrafish	National Institutes of Health	\$259,875	12
McKee, Edward E.	Heart Mitochondrial Toxicity of Antiviral Nucleosides	Indiana University-School of Medicine	\$43,389	12
Suckow, Mark A.	Xenogeneic Vaccine for Treatment of Prostate Cancer	Private Foundation	\$16,500	12
Whaley, Michelle A.	RET in Integrative Cell and Molecular Biology	National Science Foundation	\$18,000	2
Department or Office:	Center for Pastoral Liturgy			
Kroeker, Charlotte	J.S. Bach Festival	Indiana Arts Commission	\$6,000	10
Cramer, Craig J.				
Department or Office:	Chemical and Biomolecular Engineering			
Chang, Hsueh-Chia	Microfluidic Analytical Separator for Proteomics	Corporate Funding	\$48,000	23
Sengupta, Shramik				
Ostafin, Agnes E.	REU Supplement: Towards a new Biomolecular Chemical Engineering Curriculum	National Science Foundation	\$12,000	36
Schneider, William F.	Fundamental Mechanisms and Kinetics of NOx Selective Catalytic Reduction	Department of Energy	\$458,253	36
Wolf, Eduardo E.				

Proposals submitted during the period Mar-01-2005 to Mar-31-2005

Investigator(s)	Title	Sponsor	Dollars	Months
Schneider, William F.	Environmental Catalysis at the Interface of Metals and Metal Oxides: Models and Mechanisms of Oxidation Catalysis from First Principals	Department of Energy	\$868,032	48
Department or Office:	Chemistry and Biochemistry			
Joyce, David E.	Cathepsin-E Tumor Marker in Min/+ Mouse Colon Cancer	Private Foundation	\$22,000	12
Lieberman, Marya Ovaert, Timothy C.	Investigation of Diesel Lacquers	Corporate Funding	\$38,303	6
Mobashery, Shahriar	Resistance to Beta-Lactam Antibiotics	National Institutes of Health	\$377,000	12
Mobashery, Shahriar	Acquisition of LC/MS System at the University of Notre Dame	National Institutes of Health	\$451,701	12
Department or Office:	Civil Engineering and Geological Sciences			
Kurama, Yahya C. Salvati, Lynn A.	NEESR-SG: Performance-Based Engineering of Innovative Coupled Wall Systems-Distributed Hybrid Testing and Model Based Simulation	University of Cincinnati	\$286,245	48
Kurama, Yahya C.	NEESR-II Multi-Axial Seismic Evaluation of Precast Concrete Walls with Large Openings	National Science Foundation	\$374,976	36

Proposals submitted during the period Mar-01-2005 to Mar-31-2005

Investigator(s)	Title	Sponsor	Dollars	Months
Maurice, Patricia A. DuBois, Jennifer	Biomolecular controls on Fe acquisition mediated actinide mobility	Department of Energy	\$530,837	36
Salvati, Lynn A.	NEESR-SG Development of a Site for a Calibration of Site Response Models in the Central and Eastern United States	University of Kentucky	\$159,208	48
Silliman, Stephen E.	International Partnership on Ground Water Recharge Evapotranspiration-critical Coupled Hydrologic Processes	University of Nevada Reno	\$430,060	60
Vichit-Vadakan, Wilasa	Creating a Sustainable Campus: Direct Utilization of Coal Combustion By-products	Environmental Protection Agency	\$12,139	18
Department or Office:	Computer Science & Engineering			
Izaguirre, Jesus A.	CAREER: Scalable Mathematical and Computational Models for Biomolecular Modeling	National Science Foundation	\$18,750	3
Poellabauer, Christian	Operating System Services for Scalable Self-Managing Distributed Systems	Department of Energy	\$315,670	36
Scheutz, Matthias J. Snider, Gregory L. Bauer, Peter H.	A low-complexity sensor net for tracking airborne chemicals	National Science Foundation	\$747,843	36

Proposals submitted during the period Mar-01-2005 to Mar-31-2005

Investigator(s)	Title	Sponsor	Dollars	Months
Striegel, Aaron	REU Supplement: Transparent Techniques for Bandwidth Conservation	National Science Foundation	\$12,000	3
Department or Office:	Electrical Engineering			
Bauer, Peter H.	Spatio-Temporal Evidence Fusion and Filtering for Low Signature Events	National Geospatial-Intelligence Agency	\$451,546	60
Fuja, Thomas E. Laneman, J. N. Costello, Daniel J.	Coding/Routing Interaction in Mesh Networks	Corporate Funding	\$23,160	12
Porod, Wolfgang Bernstein, Gary H.	NUE: A Freshman-Level Introduction to Nanotechnology Based on Scanning Probe Instruments	National Science Foundation	\$12,000	3
Porod, Wolfgang Fay, Patrick J. Bernstein, Gary H.	Multispectral Nanoantennas Infrared Sensors	Corporate Funding	\$450,000	18
Seabaugh, Alan C.	Sensors: Tunnel-Diode RF Sensor Transceivers	National Science Foundation	\$375,001	36

Proposals submitted during the period Mar-01-2005 to Mar-31-2005

Investigator(s)	Title	Sponsor	Dollars	Months
Snider, Gregory L. Bernstein, Gary H. Orlov, Alexei Fay, Patrick J. Lent, Craig S.	International Partnership for Quantum Computing and Quantum-Dot Cellular Automata	National Science Foundation	\$2,500,002	60
Snider, Gregory L.	High-Speed Carbon Nanotube Properties	Corporate Funding	\$90,000	36
Department or Office: English				
Rodriguez, Jaime J.	American Myths and the Mexican War: Identity, Time and the Narratives of Nations	University of California-Los Angeles	\$39,000	9
Department or Office: George & Winifred Clark II (Chemistry)				
Miller, Marvin J.	Bioactive Compounds from Acylnitroso Cycloadducts	National Institutes of Health	\$294,030	12
Department or Office: Institute for Latino Studies				
Brown-Gort, Allert R. Loving, Charles R.	Caras Vermos, Corazones No Sabemos. The Human Landscape of Mexican Migration to the United States	Private Foundation	\$120,831	20
Brown-Gort, Allert R. Loving, Charles R.	Caras Vemos, Corazones no Sabemos: The Human Landscape of Mexican Migration to the US	Private Foundation	\$157,605	20

Proposals submitted during the period Mar-01-2005 to Mar-31-2005

Investigator(s)	Title	Sponsor	Dollars	Months
Department or Office: Mathematics				
Alber, Mark S. Maurice, Patricia A. Burns, Peter C. Woertz, Jennifer R.	CMG Research: Development of a Quantitative Hybrid Model to Study Uranium Transport in a Complex Geological Setting	National Science Foundation	\$582,869	36
Alber, Mark S. Woertz, Jennifer R. Sigal, Israel Michael	Multiscale Analysis of Cell Aggregation: Matching Micoscale to Macroscale through Mesoscale	Department of Energy	\$469,879	36
Department or Office: Physics				
Barabasi, Albert-Laszlo	The nature of time in complex systems	Private Foundation	\$439,808	60
Hildreth, Michael D.	A Demonstration of the Electronic and Mechanical Stability of a BPM-Based Energy Spectrometer for the International Linear Collider	University of Oregon	\$308,875	36
LoSecco, John M. Tanner, Carol E.	Analysis and Development of Optical Coherent State Quantum Computer Architectures	National Institute Standards & Technology	\$7,560	6
Department or Office: Psychology				
Borkowski, John G. Boker, Steven M. LeClere, Felicia B. Maxwell, Scott E.	Predicting and Preventing Neglect in Teen Mothers	National Institutes of Health	\$1,292,453	12

Proposals submitted during the period Mar-01-2005 to Mar-31-2005

Investigator(s)	Title	Sponsor	Dollars	Months
Cummings, E. M. Maxwell, Scott E.	Marital Conflict Resolution and Child Development	National Institutes of Health	\$702,514	12
Department or Office:	Radiation Laboratory			
Carmichael, Ian C.	Radiation and Photochemistry in the Condensed Phase	Department of Energy	\$475,000	12
Department or Office:	Robinson Community Learning Center			
Caponigro, Jerome V.	Financial Literacy Initiative	Private Foundation	\$29,480	12
Caponigro, Jerome V.	TV4KIDZ	Private Foundation	\$5,000	14
Department or Office:	Theology			
Meier, John P.	A Marginal Jew: Rethinking the Historical Jesus. Volume Four: The Last Four Enigmas	National Endowment for the Humanities	\$40,000	12

Proposals for Instructional Programs

Department or Office:	Aerospace and Mechanical Engineering			
Cavalieri, David	Educational Training of a New L-Band Station	Purdue University	\$7,000	4
Department or Office:	Electrical Engineering			
Seabaugh, Alan C.	Student Travel Support for Department of Navy the Device Research Conference		\$5,000	7

Proposals submitted during the period Mar-01-2005 to Mar-31-2005

Investigator(s)	Title	Sponsor	Dollars	Months
Department or Office: Physics				
Coshow, Suzanne M.	ISE Pre-Proposal for	National Science Foundation	\$321,147	36
Wiescher, Michael C.	Development of JINA Interactives & Games			

Awards and Proposal Summary**Centers and Institutes Report**

03/01/2005 to 03/31/2005

Awards Received

Department or Office	No.	Amount
Center for Astrophysics	1	\$12,000
Center for Flow Physics and Control	1	\$121,943
Center for Molecularly Engineered Materials	1	\$74,886
Center for Tropical Disease Research & Training	3	\$919,125
Center for Zebrafish Research	2	\$482,625
Institute for Latino Studies	1	\$25,000
Kellogg Institute for International Studies	1	\$62,081
Kroc Institute for International Peace Studies	1	\$13,188
Nano Science and Technology Center	3	\$56,000
Total:	14	\$1,766,848

Proposals Submitted

Department or Office	No.	Amount
Center for Children and Families	2	\$1,994,967
Center for Environmental Science and Technology	1	\$530,837
Center for Flow Physics and Control	6	\$928,513
Center for Microfluidics and Medical Diagnostics	1	\$48,000
Center for Molecularly Engineered Materials	1	\$12,000
Center for Tropical Disease Research & Training	3	\$1,048,845
Center for Zebrafish Research	2	\$646,390
Institute for Church Life	1	\$6,000
Institute for Latino Studies	2	\$278,436
Joint Institute for Nuclear Astrophysics	1	\$321,147
Lobund Laboratory	1	\$16,500
Nano Science and Technology Center	6	\$3,432,003
Radiation Laboratory	1	\$475,000
Robinson Community Learning Center	1	\$5,000
Walther Cancer Research Center	2	\$473,701
Total:	31	\$10,217,339

Awards and Proposal Summary

Centers and Institutes Report

07/01/2004 to 03/31/2005

Awards Received

Department or Office	No.	Amount
ACE Educational Outreach	1	\$65,600
Center for Applied Mathematics	1	\$302,729
Center for Astrophysics	4	\$167,000
Center for Children and Families	1	\$1,629,988
Center for Environmental Science and Technology	2	\$135,518
Center for Flow Physics and Control	12	\$723,521
Center for Molecularly Engineered Materials	3	\$466,649
Center for Transgene Research	3	\$158,625
Center for Tropical Disease Research & Training	10	\$5,355,301
Center for Zebrafish Research	4	\$492,201
Environmental Molecular Science Institute	1	\$1,000,000
Environmental Research Center	2	\$431,265
Freimann Life Science Center	5	\$28,371
Institute for Church Life	1	\$80,000
Institute for Educational Initiatives	2	\$85,500
Institute for Latino Studies	14	\$1,302,443
Interdisciplinary Center for the Study of Biocomplexity	1	\$160,160
Jacques Maritain Center	1	\$25,000
Kellogg Institute for International Studies	3	\$378,094
Kroc Institute for International Peace Studies	3	\$354,657
Nano Science and Technology Center	20	\$4,064,826
Nanovic Institute	1	\$121,927
Nuclear Structure Laboratory	2	\$2,055,080
Office of the Provost	1	\$3,000,000
Radiation Laboratory	4	\$7,240,270
South Bend Center for Medical Education	2	\$263,836
Walther Cancer Research Center	3	\$349,105
Total:	107	\$30,437,666

Proposals Submitted

Department or Office	No.	Amount
Center for Astrophysics	10	\$2,010,047
Center for Children and Families	4	\$2,401,087
Center for Environmental Science and Technology	1	\$530,837
Center for Flow Physics and Control	21	\$6,492,038

Awards and Proposal Summary**Centers and Institutes Report****07/01/2004 to 03/31/2005**

Department or Office	No.	Amount
Center for Microfluidics and Medical Diagnostics	4	\$822,774
Center for Molecularly Engineered Materials	5	\$1,473,813
Center for Social Concerns	1	\$20,000
Center for Transgene Research	12	\$4,183,437
Center for Tropical Disease Research & Training	17	\$12,974,647
Center for Zebrafish Research	8	\$2,030,205
Environmental Molecular Science Institute	1	\$197,225
Environmental Research Center	2	\$13,542
Freimann Life Science Center	8	\$771,206
Institute for Church Life	5	\$78,474
Institute for Educational Initiatives	5	\$211,704
Institute for Latino Studies	26	\$2,893,623
Joint Institute for Nuclear Astrophysics	1	\$321,147
Kellogg Institute for International Studies	1	\$793,129
Keough Institute for Irish Studies	1	\$40,000
Kroc Institute for International Peace Studies	4	\$2,163,224
Lobund Laboratory	1	\$16,500
Nano Science and Technology Center	53	\$33,170,839
Nuclear Structure Laboratory	1	\$5,038,680
Radiation Laboratory	9	\$2,886,924
Reilly Center for Science, Technology and Values	1	\$37,500
Robinson Community Learning Center	3	\$304,947
Walther Cancer Institute Chair I	2	\$1,044,958
Walther Cancer Research Center	13	\$3,652,385
Total:	220	\$86,574,892

Awards received during the period Mar-01-2005 to Mar-31-2005

Centers and Institutes Report

Investigator(s)	Title	Sponsor	Dollars	Award #
<u>Awards for Research</u>				
Department or Office: Center for Astrophysics				
Garnavich, Peter M. (Center or Institute)	Towards a Comprehensive Understanding of Type Ia Supernovae	Private Foundation	\$12,000	006449-001
Department or Office: Center for Flow Physics and Control				
Thomas, Flint O. Powers, Joseph M. Corke, Thomas C. Dunn, Patrick F. (Center or Institute)	Cavitation Suppression Corporate Funding in Piston Fuel Pumps		\$121,943	006221-001
Department or Office: Center for Molecularly Engineered Materials				
Palmer, Andre F. (Center or Institute)	Engineering Artificial Cells	National Science Foundation	\$74,886	005548-001
Department or Office: Center for Tropical Disease Research & Training				
Schorey, Jeffrey S. (Center or Institute)	Macrophage Signaling Upon M. Avium Infection	National Institutes of Health	\$300,000	006201-001
Ferdig, Michael T. (Center or Institute)	Genetic Control of Cross-Resistance in Plasmodium Falciparum	National Institutes of Health	\$334,125	005954-001
McDowell, Mary A. (Center or Institute)	Interleukin-12 Regulation in Leishmania Infected Human Dendritic Cells	National Institutes of Health	\$285,000	006454-001
Department or Office: Center for Zebrafish Research				
Vihtelic, Thomas S. (Center or Institute)	Development of Wild-Type and Mutant Zebrafish Lens	National Institutes of Health	\$259,875	006013-001
Li, Lei (Center or Institute)	Centrifugal Modulation of Vertebrate Visual Sensitivity	National Institutes of Health	\$222,750	006160-001

Awards received during the period Mar-01-2005 to Mar-31-2005**Centers and Institutes Report**

Investigator(s)	Title	Sponsor	Dollars	Award #
Department or Office: Institute for Latino Studies				
Cardenas, Gilberto (Center or Institute)	Latino Leadership Evaluation Dissemination	Private Foundation	\$25,000	006448-001
Department or Office: Kellogg Institute for International Studies				
Welna, Christopher J (Center or Institute)	Building Capacity for Social Progress: A Partnership for Leadership Development	Department of Education	\$62,081	005559-001
Department or Office: Kroc Institute for International Peace Studies				
Appleby, Robert S. (Center or Institute)	Indiana Center for Cultural Exchange, Purdue University	Purdue University	\$13,188	006460-001
Department or Office: Nano Science and Technology Center				
Porod, Wolfgang Fay, Patrick J. Bernstein, Gary H. (Center or Institute)	Focal Plane Array Processors with Adaptive Visual Range and Nanoantenna Sensors	Corporate Funding	\$21,000	006456-001
Seabaugh, Alan C. (Center or Institute)	Student Travel Support for the Device Research Conference	Department of Navy	\$5,000	006452-001
Porod, Wolfgang Fay, Patrick J. Bernstein, Gary H. (Center or Institute)	Multispectral Nanoantenna Infrared Sensors	Corporate Funding	\$30,000	006455-001

Proposals submitted during the period Mar-01-2005 to Mar-31-2005

Centers and Institutes Report

Investigator(s)	Title	Sponsor	Dollars	Proposal #
<u>Proposals for Research</u>				
Department or Office:	Center for Children and Families			
Cummings, E. M.	Marital Conflict	National Institutes of Health	\$702,514	05090572
Maxwell, Scott E.	Resolution and Child Development			
Borkowski, John G.	Predicting and Preventing	National Institutes of Health	\$1,292,453	05090616
Boker, Steven M.	Neglect in Teen Mothers			
LeClere, Felicia B.				
Maxwell, Scott E.				
Department or Office:	Center for Environmental Science and Technology			
Maurice, Patricia A.	Biomolecular controls on	Department of Energy	\$530,837	05090565
DuBois, Jennifer	Fe acquisition mediated actinide mobility			
Department or Office:	Center for Flow Physics and Control			
Corke, Thomas C.	Plasma Assisted Aerodynamic Control System for Munition Maneuvering	Corporate Funding	\$260,000	05090577
Jumper, Eric J.	Year 2: Aero-Optical Modeling and Validation for HEL Systems	Corporate Funding	\$209,975	05090609
Cavalieri, David				
Rennie, Robert M.				
Gordeyev, Stanislav V.				
Morris, Scott C.	Experimental Measurements of a Low Noise Trailing Edge	Stanford University	\$20,000	05090601

Proposals submitted during the period Mar-01-2005 to Mar-31-2005**Centers and Institutes Report**

Investigator(s)	Title	Sponsor	Dollars	Proposal #
Jumper, Eric J.	Toward Adaptive-Optic Mitigation of Aero-Optic Effects	Department of the Air Force	\$203,189	05090619
Nelson, Robert C.	The Flow Physics of Controlling the Leading Edge Vortex	Clarkson University	\$228,349	05090618
Department or Office:	Center for Microfluidics and Medical Diagnostics			
Chang, Hsueh-Chia	Microfluidic Analytical Separator for Proteomics	Corporate Funding	\$48,000	05090604
Sengupta, Shramik				
Department or Office:	Center for Molecularly Engineered Materials			
Ostafin, Agnes E.	REU Supplement: Towards a new Biomolecular Chemical Engineering Curriculum	National Science Foundation	\$12,000	05090596
Department or Office:	Center for Tropical Disease Research & Training			
Fraser, Malcolm J.	Developing site-specific recombinases for transgenesis and functional genomics in mosquitoes	National Institutes of Health	\$589,644	05090562
Severson, David W.				
Collins, Frank H.				
Fraser, Malcolm J.	Transgenic Engineering of Aedine Mosquitos	National Institutes of Health	\$428,700	05090584
Besansky, Nora J.	The 2Rj inversion breakpoint of An. gambiae: molecular diagnosis and characterization.	World Health Organization	\$30,501	05090573

Proposals submitted during the period Mar-01-2005 to Mar-31-2005

Centers and Institutes Report

Investigator(s)	Title	Sponsor	Dollars	Proposal #
Department or Office:	Center for Zebrafish Research			
Li, Lei	Searching for visual system mutations in adult zebrafish	National Institutes of Health	\$259,875	05090592
Hinchcliffe, Edward H.	Cell and Physiological Dynamics Live Cell Confocal Microscope	National Institutes of Health	\$386,515	05090603
Department or Office:	Institute for Church Life			
Kroeker, Charlotte Cramer, Craig J.	J.S. Bach Festival	Indiana Arts Commission	\$6,000	05090615
Department or Office:	Institute for Latino Studies			
Brown-Gort, Allert R. Loving, Charles R.	Caras Vermos, Corazones No Sabemos. The Human Landscape of Mexican Migration to the United States	Private Foundation	\$120,831	05090595
Brown-Gort, Allert R. Loving, Charles R.	Caras Vermos, Corazones no Sabemos: The Human Landscape of Mexican Migration to the US	Private Foundation	\$157,605	05090608
Department or Office:	Lobund Laboratory			
Suckow, Mark A.	Xenogeneic Vaccine for Treatment of Prostate Cancer	Private Foundation	\$16,500	05090583
Department or Office:	Nano Science and Technology Center			
Seabaugh, Alan C.	Sensors: Tunnel-Diode RF Sensor Transceivers	National Science Foundation	\$375,001	05090569

Proposals submitted during the period Mar-01-2005 to Mar-31-2005**Centers and Institutes Report**

Investigator(s)	Title	Sponsor	Dollars	Proposal #
Snider, Gregory L.	High-Speed Carbon Nanotube Properties	Corporate Funding	\$90,000	05090602
Porod, Wolfgang Fay, Patrick J. Bernstein, Gary H.	Multispectral Nanoantennas Infrared Sensors	Corporate Funding	\$450,000	05090620
Porod, Wolfgang Bernstein, Gary H.	NUE: A Freshman-Level Introduction to Nanotechnology Based on Scanning Probe Instruments	National Science Foundation	\$12,000	05090587
Snider, Gregory L. Bernstein, Gary H. Orlov, Alexei Fay, Patrick J. Lent, Craig S.	International Partnership for Quantum Computing and Quantum-Dot Cellular Automata	National Science Foundation	\$2,500,002	05090585
Department or Office:	Radiation Laboratory			
Carmichael, Ian C.	Radiation and Photochemistry in the Condensed Phase	Department of Energy	\$475,000	05090589
Department or Office:	Robinson Community Learning Center			
Caponigro, Jerome V.	TV4KIDZ	Private Foundation	\$5,000	05090617

Proposals submitted during the period Mar-01-2005 to Mar-31-2005

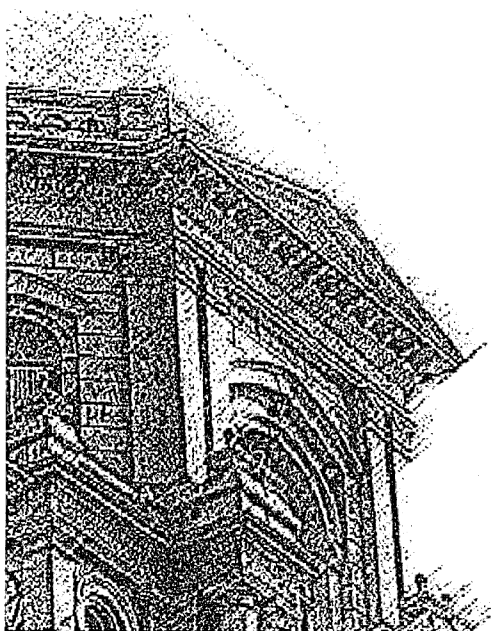
Centers and Institutes Report

Investigator(s)	Title	Sponsor	Dollars	Proposal #
Department or Office:	Walther Cancer Research Center			
Joyce, David E.	Cathepsin-E Tumor Marker in Min/+ Mouse Colon Cancer	Private Foundation	\$22,000	05090590
Mobashery, Shahriar	Acquisition of LC/MS System at the University of Notre Dame	National Institutes of Health	\$451,701	05090600

Proposals for Instructional Programs

Department or Office:	Center for Flow Physics and Control			
Cavalleri, David	Educational Training of a New L-Band Station	Purdue University	\$7,000	05090579
Department or Office:	Joint Institute for Nuclear Astrophysics			
Coshow, Suzanne M.	ISE Pre-Proposal for Development of JINA	National Science Foundation	\$321,147	05090599
Wiescher, Michael C.	Interactives & Games			
Department or Office:	Nano Science and Technology Center			
Seabaugh, Alan C.	Student Travel Support for Department of Navy the Device Research Conference		\$5,000	05090576

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