

# Notre Dame Report

---

## Faculty Notes

325 ..... Honors

325 ..... Activities

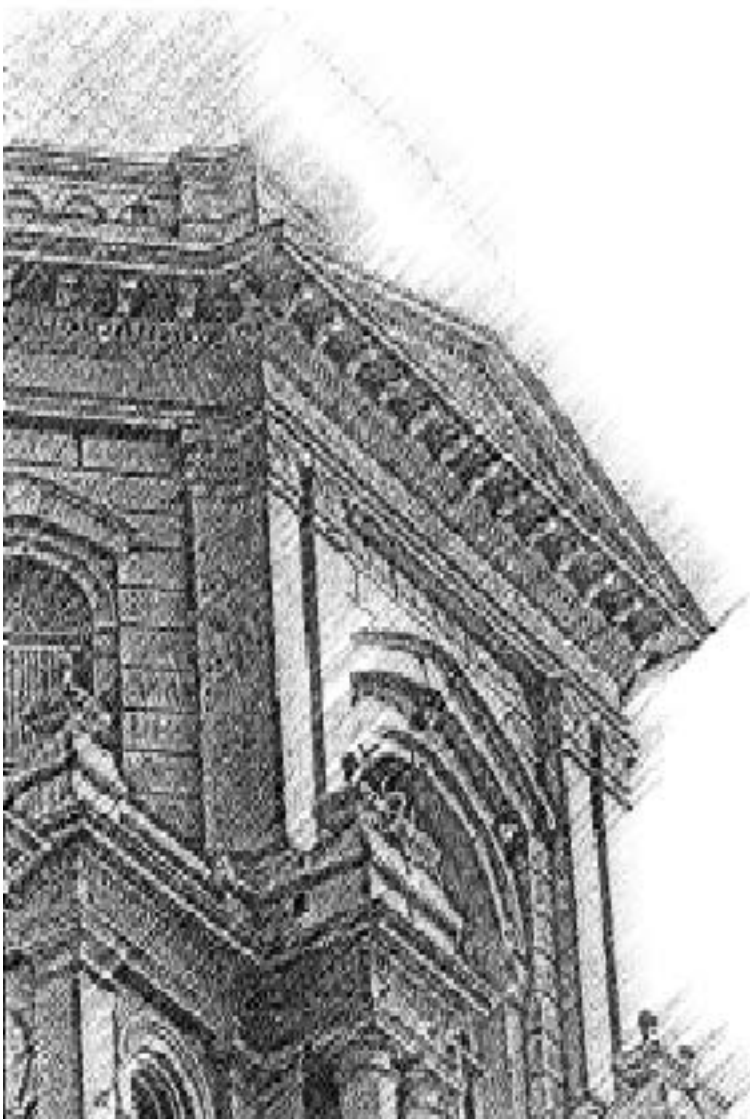
327 ..... Publications

## Administrators' Notes

328 ..... Publications

## Research

329 ..... March 2008



A P R I L 2 5 , 2 0 0 8

N U M B E R 8

# Faculty Notes

## Honors

**Agustín Fuentes**, the O'Neill Associate Professor of Anthropology and Flatley Director of the Office of Undergraduate and Post-Baccalaureate Fellowships, was named to the editorial board for the journal *Yearbook of Physical Anthropology*.

**Maureen T. Hallinan**, professor of sociology, was elected to the Laureate Chapter of Kappa Delta Pi International Honor Society in Education at the 46th biennial Kappa Delta Pi Convocation in November 2007.

**Donald E. Sporleder**, professor of architecture emeritus, was elected chairman of the Trails Advisory Board, Indiana Dept. of Natural Resources, at the March 6, 2008 meeting of the board at the Government Center in Indianapolis.

**Duncan Stroik**, associate professor of architecture, received an award from the American Institute of Architects, Northern Indiana chapter, for his Shrine of the Sacred Heart in the St. Louis Cathedral.

## Activities

**D.M. Bartels**, professional specialist in the Radiation Laboratory, presented "Properties and Reactions of OH Radicals, H Atoms, and Solvated Electrons in Pressurized Water" at a chemistry department seminar at the Florida Institute of Technology, Melbourne, on Feb. 19, 2008.

**Subhash C. Basu**, professor of chemistry and biochemistry, presented the following: "Glycobiology and Signal Transduction," a short postgraduate course in the Dept. of Biochemistry at the Delhi Univ.-South Campus, New Delhi, India, Jan. 16 and Jan. 29, 2008; "Post-Translational and Transcriptional Regulation of Glycolipid Glycosyltransferase Genes in Apoptotic Breast Cancer Cells," an invited talk, at the Eighth International Symposium on Biochemical Roles of Eukaryotic Cell Surface Macromolecules, in Hyderabad, India, Jan. 21–25 (where he also chaired a session on Jan. 23), and again at the Dept.

of Immunochemistry and Biochemistry, Lady Brabourne College, Calcutta Univ., on Feb. 26; "Apoptosis in Cancer Cells by Anticancer Agents," an invited talk given at the Bioengineering Division, Indian Statistical Institute, Kolkata, India, on Feb. 18; "Use of Gold Nano-Wire Biosensors in the Detection of Pathogenic Bacteria in Health and Diseases," an invited seminar given at the Dept. of Biochemistry at the Univ. of Calcutta, India, on Feb. 20, again at the Nanotechnology Bio-Center at the Indian Institute of Statistics, Kolkata, on Feb. 21, and again in the Nano-Research Unit of West Bengal Univ. of Technology, Kolkata, on March 10; and "Regulation of Glycoconjugate Biosyntheses and Application of Glycomics in the Analyses," a short postgraduate course in the Dept. of Immunochemistry at the Indian Institute of Chemical Biology, Kolkata, March 11–13, and again in the Biophysics Division Structural Genomics Section of the Saha Institute of Nuclear Physics, Kolkata, India, on March 14, 2008.

**Patricio Boyer**, assistant professor of Spanish, presented "Affect: Ethics and the Question of Empire" at the MLA annual convention in Chicago in December.

**Ian Carmichael**, professor of chemistry and biochemistry and director of the Radiation Laboratory, chaired the session on "Radiation Chemistry and Radiolysis of Biological Molecules" at RD5 workshop (Fifth International Workshop on X-Ray Damage to Biological Crystalline Samples), Swiss Light Source, Villigen, Switzerland, March 3–5, 2008.

**Julia Douthwaite**, professor of French, presented "Experimentalism in the Revolutionary Age" at the MLA annual convention in Chicago, on Dec. 29, 2007.

**Alan Dowty**, professor emeritus of political science and senior associate in Middle Eastern studies at the Kroc Institute, presented the invited lecture "The Past and Future of Israel" as the keynote address for the colloquium on "Religion, Nation, and State in the 60 Years of Israel: Geopolitics

and Dialogue/Clash of Civilizations," Univ. of Coimbra, Portugal, on April 2, 2008.

**Jeff Feder**, professor of biological sciences, presented "Educational Video on Speciation" at the Univ. of Florida at Gainesville in April.

**Michael Ferdig**, assistant professor of biological sciences, was an invited seminar speaker at the Univ. of California Riverside, where he presented "Interpreted Genomics and Malaria Phenotypes" on March 5, 2008.

**Isabel Ferreira Gould**, assistant professor of Romance languages, presented "Crimes Against Citizenship: The Portuguese Political Police (PVDE/PIDE) in Contemporary Literature and Cinema" at the panel "Citizenship, Literature, and Culture," at the 123rd Modern Language Association annual convention, in Chicago, on Dec. 28, 2007.

**Gregory Hartland**, professor of chemistry and biochemistry, presented the invited talks "Metal Nanoparticles I" and "Metal Nanoparticles II" at the American Chemical Conference, New Orleans, La., April 8–9, 2008.

**Sallie A. Hood**, associate professor of architecture and director of design of the Center for Building Communities (CBC), and **Ronald J. Sakal**, professional specialist in architecture and executive director of the CBC, presented the CBC's proposals for redeveloping the Los Angeles Fashion District to the Community Redevelopment Agency of the City of Los Angeles, the Downtown Fashion District Board, and LA city planners and public works officials on Jan. 8, 2008. This studio was funded by an ongoing annual gift of \$200,000 from Champion Enterprises, Inc. The multidisciplinary team also included **Paula Bodnar**, visiting associate professional specialist in art, and **Yahya C. Kurama**, associate professor and director of graduate studies in civil engineering and geology, along with architecture and graphic design students.

**Prashant V. Kamat**, professor of chemistry and biochemistry, senior scientist in the Radiation Lab and concurrent professor of chemical and biomolecular engineering, presented "Semiconductor Nanostructure Assemblies for Next Generation Solar Cells" at the "U.S.–North Africa Regional Workshop on Nanostructured

Materials and Nanotechnology,” Tunis, Tunisia, March 18–21, 2008; and presented four invited papers at the American Chemical Conference, New Orleans, La. (“Nanostructure Hybrid Architectures as Next Generation Photocatalysts” on April 6, “Chromophore Functionalized Gold Nanoparticles and Nanorods” on April 7, “Quantum Dot Solar Cells” on April 6, and “Carbon Nanotube-Semiconductor and TiO<sub>2</sub> Nanotube-Quantum Dot Architectures for Light Energy Conversion” on April 8); and was a session organizer of the Division of Colloid and Surface Chemistry Session, “Interfacial Electron Transfer and Solar Energy Conversion: From Molecules to Nanomaterials” on April 6, 2008.

**Marya Lieberman**, associate professor of chemistry and biochemistry, gave an invited presentation at the ONR Workshop on DNA Nanostructures in Alexandria, Va., on April 11, 2008 titled “Lithographic Patterning of DNA Nanostructures.”

**David Lodge**, professor of biological sciences, presented “Assessing and Managing Impacts of Invasive Organisms” at the Univ. of Minnesota, St. Paul, on March 3, 2008.

**John LoSecco**, professor of physics, presented “Extracting  $\theta_{13}$  at Double Chooz,” Double Chooz Collaboration Meeting, Kobe Univ., Japan, on March 3.

**Ralph McInerney**, the Grace Professor of Philosophy, presented “Ordinary Knowledge of God” on March 18, 2008, at the Garaventa Center for Catholic Intellectual Life and American Culture, Univ. of Portland.

**Dan Meisel**, professor of chemistry and biochemistry, presented “Catalytic Hydrogen Evolution Reaction as the Nanoparticle Sees It” and “Insights into the H<sub>2</sub> Evolution Reaction Using Radiation Chemistry,” written with G. Merga and L. Cass, at the ACS national meeting, New Orleans, April 6–10, 2008.

**Juan Migliore**, professor of mathematics, organized (with U. Nagel) the Special Session on Combinatorial and Geometric Aspects of Commutative Algebra at the 1038th meeting of the American Mathematical Society in Bloomington, Ind., held April 5–6, 2008.

**Vanesa Miseres**, adjunct instructor in Romance languages, presented “*Explicando los pliegues de la patria: Juana Manuela Gorriti y el proyecto nacional*” at the MLA annual convention in Chicago in December.

**Marisel Moreno**, assistant professor of Spanish, presented “Memory and Invisibility: Reconstructing the Dominican Past in Angie Cruz’s *Let It Rain Coffee*” in the 22nd Society for the Study of the Multi-Ethnic Literature of the United States annual conference, March 27–30, 2008, in Columbus, Ohio.

**Joseph O’Tousa**, professor of biological sciences attended the 2008 *Drosophila* Research Conference in San Diego, April 3–9, where presentations from his lab were made: “Characterization of *Aedes aegypti* rhodopsins in transgenic *Drosophila melanogaster* (James H. England, F. Joseph Real, Kathleen Barber, Xiaobang Hu (postdoc), Zachary Lemmon, Aaron Lani, Jennifer Tung, and **Michelle A. Whaley** (professional specialist); “Retinophilin (CG10233) localizes to rhabdomeres of *Drosophila* photoreceptor cells” (Kirk L. Mecklenberg and Benjamin Currie); and “Characterization of Apoptosis Inducing Factor (AIF) in the *Drosophila* Visual System (Zachary Lemmon).

**Jeffrey W. Peng**, assistant professor of chemistry and biochemistry, presented two invited talks, “<sup>13</sup>C Detection for Protein Dynamics” and “Ligand Dynamics by <sup>13</sup>C Relaxation Discussion & Natural Abundance,” at the Experimental Nuclear Magnetic Resonance Conference, Asilomar, Calif., March 9–15, 2008.

**Joseph M. Powers**, associate professor of aerospace and mechanical engineering, led a mini-symposium and presented a paper, “Calculation of Invariant Manifolds for Reacting Systems,” at the 12th SIAM International Meeting on Numerical Combustion, Monterey, Calif., March 30–April 3, 2008.

**Ronald J. Sakal**, professional specialist in architecture and executive director of the Center for Building Communities (CBC), and **Sallie Hood**, associate professor of architecture and director of design of the CBC, presented their urban design theories and the work of the CBC at the Traditional Building Conference in Boston on March 14, 2008.

**Anthony S. Serianni**, professor of chemistry and biochemistry, presented an invited talk titled “New Correlations between NMR J-Couplings and Saccharide Structure and Function” at the ACS Symposium, 235th American Chemical Society national meeting, New Orleans, La., April 7–8, 2008.

**Slavi C. Sevov**, professor of chemistry and biochemistry, presented two invited talks titled “Organo-Zintl Ions” and “Hydrogen-Bonded Frameworks” at the American Chemical Society national meeting in New Orleans, La., on April 5 and 6, 2008.

**Duncan Stroik**, associate professor of architecture, presented “Icon of the Eternal: the Future of Sacred Architecture” as part of a symposium cosponsored by the Yale School of Architecture and the Yale Divinity School on Oct. 26, 2007; “The Revival of Beauty” to the Polonaise Club of South Bend, in November; and “Is there a Sacred Architecture” at the Univ. of Montana on March 13, 2008.

**Julia Adeney Thomas**, associate professor of history, served as a discussant on an Association of Asian Studies panel called “Life on the Margins in 1950s Japan,” with P. Siegenthaler, K. Brandt, L. McLaughlin, and J. Jesty in Atlanta, Ga., April 3–6, 2008.

**G.N. Tripathi**, professional specialist in the Radiation Laboratory, presented a seminar at DDU Univ., Gorakhpur, India, on Feb. 13, 2008, on “Vibrational Spectroscopy of Radiation-Chemical Transients in Water.”

**Krupali Uplekar**, assistant professor of architecture, presented the invited lecture “Traditional Architecture and Its Relevance in Asia” at the Traditional Building Conference in New Orleans on Oct 18, 2007.

**John P. Welle**, professor of Romance languages and literatures, concurrent professor of film, television and theatre, and fellow of the Nanovic Institute, presented “Pirandello’s *Lumorismo* and the Sternian Line in Italian Fiction” at the Modern Language Association annual convention at Chicago on December 28, 2007; presided at a session on Pirandello organized by the Pirandello Society of America; and presented “Performing and Promoting the Apparatus of Early Cinema: Leopoldo Fregoli and the Fregoligraph” at the Society for Cinema and Media Studies annual conference in Philadelphia on March 6, 2008.

## Publications

**J. Douglas Archer**, librarian, contributed reviews of *A Precarious Peace: Yoderian Explorations on Theology, Knowledge, and Identity*, by C. Hueber, and *Practicing the Politics of Jesus: The Origin and Significance of John Howard Yoder's Social Ethics*, by E. Zimmerman, to *Brethren Life and Thought* 52, No. 3 (2007): 192–4; “Intellectual Freedom at ALA's Midwinter Meeting in Philadelphia” to *Focus on Indiana Libraries* 62, No. 3 (2008): 5; and “James Quinter: Gentle, Persistent Progressive,” to the *Messenger* 157, No. 4 (2008): 10–11.

**Howard Blackstead**, professor of physics, published “The Decomposition of  $\text{YBa}_2\text{Cu}_3\text{O}_{7-d}$  doped into  $\text{Ba}_2\text{YRuO}_6$ ” with W.B. Yelon, M. Kornecki, M.P. Smylie (graduate student in physics), Paul J. McGinn (professor of physics), J.B. Yang, W.J. James, and Q. Cai, *Journal of Applied Physics* 103 (2008): 033904 (7 pages).

**Antonio Delgado**, professor of physics, published “Hunting Long-Lived Gluinos at the Pierre Auger Observatory” with L.A. Anchordoqui, C.A. Garcia Canal, and S.J. Sciutto, *Phys. Rev. D* 77 (2008): 023009.

**Alan Dowty**, professor emeritus of political science and senior associate in Middle Eastern studies at the Kroc Institute, published *Israel/Palestine* second edition (Polity Press, 2008).

**Kristin Hager**, assistant professor of biological sciences, published “Molecular evolution of the vesicle coat component bCOP in *Toxoplasma gondii*” with S.S. Smith, S.L. Pfluger, E.E. Hjort (undergraduate), and A.G. McArthur, *Molecular Phylogeny Evolution* 44, No. 3 (2007): 1284–94; “The apicomplexan parasite *Toxoplasma gondii* possesses a receptor for activated C kinase ortholog” with J.M. Moran and S.S. Smith, *Biochemical and Biophysical Research Communications* 363, No. 3 (2007): 680–6; “MAR'veling at parasite invasion” with V. Caruthers, *Trends in Parasitology* 24, No. 2 (2008): 51–54; and “Parasitology as a teaching tool: isolation of apicomplexan cysts from store bought meat” with T.L. Eggleston and E. Fitzpatrick, E. (RET@ND student), *Cell Biology Education-Life Sciences Education* (CBE-LSE), in press.

**Maureen T. Hallinan**, professor of sociology, published “Conclusion: Sociological Perspectives on NCLB and Federal Involvement in Education” in Sadovnik et al. (eds.), *No Child Left Behind and the Reduction of the Achievement Gap: Sociological Perspectives on Federal Educational Policy* (N.Y.: Routledge, Taylor & Francis Group, 2007): 359–73; and “Tracking: From Theory to Practice” in A. Sadovnik, *The Sociology of Education: A Critical Reader* (London: Routledge, 2007): 313–24 (Reprinted from *Sociology of Education* 67, No. 2 (1994): 79–84.

**Tom Jemielity**, emeritus faculty, published “*De Profundis*: A Supernatural Tail,” in *The MacGuffin* XXIV, No. 2 (winter 2008): 32–38.

**Prashant V. Kamat**, professor in the Radiation Laboratory and concurrent professor of chemical engineering, published “Photoelectrochemistry of Stacked-Cup Carbon Nanotube Films. Tube-Length Dependence and Charge Transfer with Excited Porphyrin” with T. Hasobe and H. Murata, *J. Phys. Chem. C* 111 (2007): 16626–34.

**Juan Migliore**, professor of mathematics, published “A Characterization of Gorenstein Hilbert Functions in Codimension Four with Small Initial Degree” with U. Nagel and Fabrizio Zanello, visiting assistant professor of mathematics, in *Mathematical Research Letters* 15, No. 2 (2008): 331–49; “An Improved Multiplicity Conjecture for Codimension Three Gorenstein Algebras,” also with U. Nagel and Fabrizio Zanello, in *Communications in Algebra* 36 (2008): 112–19; and “The Geometry of the Weak Lefschetz Property and Level Sets of Points” in the *Canadian Journal of Mathematics* 60, No. 2 (2008): 391–411.

**Marisel Moreno**, assistant professor of Spanish, published “Debunking Myths, Destabilizing Identities: A Reading of Junot Díaz's *How to Date a Brown girl, Black girl, White girl, or Halfie*” in the *Afro-Hispanic Review* 26, No. 2 (fall 2007).

**Catherine Perry**, associate professor of French, published the fall 2007 issue of *Nouvelles Études Francophones*, the journal of the association *Conseil International d'Études Francophones*.

**Adrian J. Reimers**, adjunct assistant professor of philosophy, published a review of J. Hawthorne's book *Metaphysical Essays* in *The Review of Metaphysics* 61, No. 3 (2008): 634–5.

**Alison Rice**, assistant professor of French, published three articles: an interview with Germaine Tillion, as a chapter in *Le Siècle de Germaine Tillion*, T. Todorov, ed. (Paris: Seuil, 2007): 347–70; an encyclopedia article on Assia Djebar in *Encyclopaedia Universalis* (2007): 392; and “Francophone Postcolonialism from Eastern Europe” in the *International Journal of Francophone Studies* 10, No. 3 (2007): 313–28.

**Thomas Scheck**, visiting scholar in the Jacques Maritain Center, published *Origen and the History of Justification: The Legacy of Origen's Commentary on Romans* (Notre Dame, Univ. of Notre Dame Press, 2008): 297 pages.

**Duncan Stroik**, associate professor of architecture, wrote “*Instauratio*” for the 40th anniversary issue of *Faith and Form*, No. 3 (2007); had his work featured in “On the Meaning of the Classical Movement in Architecture” by N. Waldman in the *Intercollegiate Review* (spring 2008); participated in a discussion moderated by N.V. Gagne “*Fiat Lux*, Two Experts Discuss lighting in Sacred Spaces” in *Traditional Building* (December 2007); published “The Roots of Modernist Church Architecture” for the December issue of *Traditional Building*; and was quoted in “A Design to Set Thoughts Aloft” by V. Cotsalas in the *New York Times* on March 9, 2008.

**Krupali Uplekar**, assistant professor, school of architecture, published “Transforming Historic City Centres: Integrated Approach of Urban Design and Historic Preservation” in *New Architecture and Urbanism, Development of Indian Traditions*, D. Prasad, ed. (New Delhi: INTBAU India, 2008): 103–6; and “The Reconstruction of Frauenkirche” in *Sacred Architecture Journal*, No. 11 (2006): 25–26.

# Administrators' Notes

## Publications

**Dirk Michael Guld**, visiting scholar in the Radiation Laboratory, published "Chloride Anion Controlled Molecular "Switching": Binding of 2,5,7-Trinitro-9-dicyanomethylene-fluorene-C60 by Tetrathiafulvalene Calix[4]pyrrole and Photophysical Generation of Two Different Charge-Separated States" with K.A. Nielsen, G.H. Sarova, L. Martin-Gomis, F. Fernández-Lázaro, P.C. Stein, L. Sanguinet, E. Levillain, J.L. Sessler, A. Sastre-Santos, and J.O. Jappesen, *J. Am. Chem. Soc.* 130 (2008): 460–2.

**Gordon L. Hug**, retired administrator in the Radiation Laboratory, published "Evidence for Heterolytic Cleavage of C-S Bonds in the Photolysis of 1,3,5-Trithianes" with E. Janeba-Bartoszewicz, P. Filipiak, T. Pedzinski, H. Kozubek, and B. Marciniak, *Polish J. Chem.* (2008): 883–92.

**Stephen P. Mezyk**, visiting scholar in the Radiation Laboratory, published "An Apparatus for the Study of High Temperature Water Radiolysis in a Nuclear Reactor: Calibration of Dose in a Mixed Neutron/Gamma Radiation Field" with E.J. Edwards, P.H. Wilson, M.H. Anderson, **Simon M. Pimblott** (visiting scholar in the Radiation Laboratory), and **David M. Bartels** (professional specialist in the Radiation Laboratory and concurrent professor of chemistry and biochemistry), *Review of Scientific Instruments* 78 (2007): 124101-1–11.

**Ryan Muszynski**, staff member in the Radiation Laboratory, published "Decorating Graphene Sheets with Gold Nanoparticles" with **Brian Seger**, staff member in the Radiation Laboratory, and **Prashant V. Kamat**, professor in the Radiation Laboratory and concurrent professor of chemical engineering, *J. Phys. Chem. C* 112 (2008): 5263–6.

**Gustavo T. Ruiz**, staff member in the Radiation Laboratory, published "On the Nature of Redox Products of 4-((CH<sub>3</sub>)<sub>2</sub>N)

C<sub>6</sub>H<sub>4</sub>-CO<sub>2</sub><sup>-</sup> and 4-((CH<sub>3</sub>)<sub>2</sub>N)C<sub>6</sub>H<sub>4</sub>-CO<sub>2</sub>-Re(CO)<sub>3</sub>(1,10-phenanthroline): A Spectroelectrochemical, Pulse Radiolysis and Flash Photochemical Study" with M.P. Juliarena, R.O. Lezna, M.R. Féliz, **Guillermo J. Ferraudi** (professional specialist in the Radiation Laboratory), and E. Wolcan, *Polyhedron* 27 (2008): 1471–8.

**Kensuke Takechi**, staff member in the Radiation Laboratory, published "Single-Walled Carbon Nanotube Scaffolds for Dye-Sensitized Solar Cells" with P. Brown and **Prashant V. Kamat**, professor in the Radiation Laboratory and concurrent professor of chemical engineering, *J. Phys. Chem. C* 112 (2008): 4776–82.

**Kevin Charles Tvrđy**, staff member in the Radiation Laboratory, published "Quantum Dot Solar Cells. Tuning Photoresponse through Size and Shape Control of CdSe-TiO<sub>2</sub> Architecture" with A. Kongkanand, **Kensuke Takechi** (staff member), **Masaru Kuno** (assistant professor of chemistry and biochemistry), and **Prashant V. Kamat** (professor in the Radiation Laboratory and concurrent professor of chemical engineering), *J. Am. Chem. Soc.* 130 (2008): 4007–15.

# Research

## Awards and Proposal Summary

03/01/2008 to 03/31/2008

### Awards Received

Category	No.	Amount
Research	34	\$3,512,890
<b>Total:</b>	<b>34</b>	<b>\$3,512,890</b>

### Proposals Submitted

Category	No.	Amount
Research	55	\$17,467,663
Instructional Programs	3	\$40,725
Other Programs	4	\$112,500
<b>Total:</b>	<b>62</b>	<b>\$17,620,888</b>

## March 2008 Cumulative summary

### Awards Received

Category	07.01.2005 - 03.31.2006		07.01.2006 - 03.31.2007		07.01.2007 - 03.31.2008	
	No.	Amount	No.	Amount	No.	Amount
Research	295	\$47,794,428	314	\$51,506,006	286	\$62,997,973
Facilities and Equipment						
Instructional Programs	3	\$308,546	6	\$729,452	8	\$1,026,405
Other Programs						
Service Programs					1	\$6,500
<b>Total:</b>	<b>298</b>	<b>\$48,102,974</b>	<b>320</b>	<b>\$52,235,458</b>	<b>295</b>	<b>\$64,030,878</b>

### Proposals Submitted

Category	07.01.2005 - 03.31.2006		07.01.2006 - 03.31.2007		07.01.2007 - 03.31.2008	
	No.	Amount	No.	Amount	No.	Amount
Research	625	\$160,724,668	613	\$217,630,332	547	\$206,689,162
Facilities and Equipment						
Instructional Programs	16	\$3,943,828	28	\$3,896,738	20	\$1,503,784
Other Programs	1	\$5,000	1	\$9,750	4	\$112,500
Service Programs						
<b>Total:</b>	<b>642</b>	<b>\$164,673,496</b>	<b>642</b>	<b>\$221,536,820</b>	<b>571</b>	<b>\$208,305,446</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 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](mailto:research@nd.edu) or 631-7432 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-01-2008 to Mar-31-2008**

Investigator(s)	Title	Sponsor	Dollars	Months
<b><u>Awards for Research</u></b>				
<b>Department or Office:</b> Aerospace and Mechanical Engineering				
Tomar, Vikas	Microstructural Engineering of SiC-Si <sub>3</sub> N <sub>4</sub> Nanocomposites Using a Combination of Classical Molecular Dynamics and Cohesive Finite Element Methods.	National Science Foundation	\$12,000	24
<b>Department or Office:</b> Biological Sciences				
Boyd, Sunny K.	Eleventh and Twelfth Annual Meetings for the Society for Behavioral Neuroendocrinology	National Science Foundation	\$20,806	24
Feder, Jeffrey L.	DNA and Morphometric Diagnostics for Apple and Snowberry Maggot Flies.	Washington Tree Fruit Research Commission	\$10,000	19
O'Tousa, Joseph E.	Genetic Analysis of Retinal Degeneration	National Institutes of Health	\$321,159	12
Schulz, Robert A.	Genes Controlling Blood Cell Development in Drosophila.	National Institutes of Health	\$516,252	12
Suckow, Mark A. (Center or Institute)	Imaging Model Development	Corporate Funding	\$9,114	12
Suckow, Mark A. (Center or Institute)	Evaluation of Modified ECM Hernia Repair Device.	Corporate Funding	\$8,220	7
<b>Department or Office:</b> Chemical and Biomolecular Engineering				
Bohn, Paul W.	Molecular Aspects of Transport in Thin Films of Controlled Architecture	Department of Energy	\$125,000	24

**Awards received during the period Mar-01-2008 to Mar-31-2008**

Investigator(s)	Title	Sponsor	Dollars	Months
Mukasyan, Alexander S.	Fundamental Mechanisms of Reactive Materials Response Under Extreme Mechanical Stimulation	Purdue University	\$171,100	20
<b>Department or Office:</b>	Chemistry and Biochemistry			
Hartland, Gregory V.	Correlated Time-Resolved Spectroscopy and Structural Studies of Single Metal Particles	National Science Foundation	\$113,598	36
Mobashery, Shahriar	Penicillin-Binding Proteins, Mechanisms and Inhibition	National Institutes of Health	\$263,121	12
Mobashery, Shahriar	Cerexa Study Number: P0903-M-037/ME1036-M-011.	Corporate Funding	\$67,500	12
Peng, Jeffrey W.	Functional Motions in Modular Signaling Proteins	National Institutes of Health	\$250,120	12
Vakulenko, Sergei	Aminoglycoside Resistance in Enterococci	National Institutes of Health	\$59,316	12
<b>Department or Office:</b>	Civil Engineering and Geological Sciences			
Shrout, Joshua	Identification of structural and genetic factors critical to the production of microbial biopolymers with desirable properties	U.S. Army Corps of Engineers	\$50,000	19
Westerink, Joannes J.	Arcadis - USACE/FEMA Storm Surge Modeling Study of the Texas Coast.	Corporate Funding	\$186,394	12
<b>Department or Office:</b>	Classics, The			
Guo, Li	A Medieval Muslim Entertainer and His World.	National Endowment for the Humanities	\$50,400	12



**Awards received during the period Mar-01-2008 to Mar-31-2008**

Investigator(s)	Title	Sponsor	Dollars	Months
<b>Department or Office:</b> Computer Science & Engineering				
Chen, Danny Z.	Developing New Algorithm and Software for a Radiosurgery Cancer Treatment Problem	Corporate Funding	\$36,000	6
Kogge, Peter M. Bernstein, Gary H. Brockman, Jay B. Hu, Xiaobo Porod, Wolfgang Niemier, Michael T.	Blending Processing into Advanced Memory Technologies to Enhance Massive, Memory-critical Applications.	Department of Defense	\$494,128	24
Madey, Gregory R.	CRI: CRD Data Archive & Collaboratory for Research on Open Source Software Development.	National Science Foundation	\$50,000	11
Thain, Douglas L.	CAREER: Data Intensive Grid Computing on Active Storage Clusters	National Science Foundation	\$59,626	60
<b>Department or Office:</b> Economics and Econometrics				
Sullivan, James X.	Economic Well-Being and Enequality	University of Chicago	\$71,064	24
<b>Department or Office:</b> Electrical Engineering				
Bernstein, Gary H. Fay, Patrick J. (Center or Institute)	Novel Superconnects for Ultrahigh-Performance Hybrid Communications System	National Science Foundation	\$6,000	36
Fuja, Thomas E. Haenggi, Martin Laneman, J. N.	SystemWare: Retooling Systems Instruction in Electrical Engineering	National Science Foundation	\$150,001	23

**Awards received during the period Mar-01-2008 to Mar-31-2008**

Investigator(s)	Title	Sponsor	Dollars	Months
Laneman, J. N.	Towards a Renaissance in Finite-Blocklength Information Theory	National Science Foundation	\$167,064	36
<b>Department or Office:</b>	History			
Martin, Alexander	Enlightened Absolutism and Urban Modernity in Moscow, 1763-1881	American Philosophical Society	\$37,000	11
<b>Department or Office:</b>	Physics			
Barabasi, Albert-Laszlo	Integrated Antimicrobial Drug Discovery Scheme for Multidrug Resistant Bacteria	University of Pittsburgh	\$12,774	2
Sapirstein, Jonathan R.	Weak and Electromagnetic Radiative Corrections in Atomic Physics	National Science Foundation	\$45,324	36
Wayne, Mitchell R.	Interactions in Understanding the Universe (I2U2)	Fermi National Laboratory	\$30,000	9
<b>Department or Office:</b>	Political Science			
Barber, Sotirios A.	Constitutional Failure and Success	National Endowment for the Humanities	\$50,400	12
Hero, Rodney E.	Latino Community and American Politics: The Creation and Consequences of Hispanics in the U.S.	Princeton University	\$23,000	10
Zuckert, Michael P.	Graduate Research Fellowships during AY2005-2006.	Private Foundation	\$20,644	36
<b>Department or Office:</b>	Psychology			
Borkowski, John G. Whitman, Thomas L.	Research Training in Mental Retardation	National Institutes of Health	\$9,275	12

**Awards received during the period Mar-01-2008 to Mar-31-2008**

<b>Investigator(s)</b>	<b>Title</b>	<b>Sponsor</b>	<b>Dollars</b>	<b>Months</b>
<b>Department or Office:</b> Sociology				
Cardenas, Gilberto (Center or Institute)	Documents of 20th Century Latin American and Latino Art	Museum of Fine Arts, Houston	\$16,490	25

**Proposals submitted during the period Mar-01-2008 to Mar-31-2008**

Investigator(s)	Title	Sponsor	Dollars	Months
<b><u>Proposals for Research</u></b>				
<b>Department or Office:</b> Aerospace and Mechanical Engineering				
Niebur, Glen L.	Growth of Trabecular Bone Loading Due to Off-axis Loads	National Institutes of Health	\$227,208	0
Ovaert, Timothy C.				
Tomar, Vikas	Microstructural Engineering of SiC-Si3N4 Nanocomposites Using a Combination of Classical Molecular Dynamics and Cohesive Finite Element Methods.	National Science Foundation	\$12,000	2
<b>Department or Office:</b> Biological Sciences				
Ferdig, Michael T.	Genome Surveillance for Drug Resistant Malaria	Harvard University	\$120,018	12
Hyde, David R.	Genetic Hierachy Underlying Photoreceptor Regeneration	National Institutes of Health	\$337,500	12
Hyde, David R.	Role of Pax6 in Photoreceptor Cell Regeneration Using Conditional Knockdowns	National Institutes of Health	\$225,000	12
Li, Lei	Characterization of dominant night blindness mutations in zebrafish	National Institutes of Health	\$375,000	12
Lodge, David M.	Identifying Invasion Corridors Through Genetic Analysis of Bythotrephes Longimanus in Inland Lakes.	Sigma Xi	\$1,000	0

**Proposals submitted during the period Mar-01-2008 to Mar-31-2008**

Investigator(s)	Title	Sponsor	Dollars	Months
Severson, David W. Romero-Severson, Jeanne	Molecular Genetics of Dengue Resistance in Mosquitoes	National Institutes of Health	\$670,586	12
Thummel, Ryan	The Platinum Zebrafish Mutant is a Model for Studying the Mechanism Underlying Vision Defects Associated with Albinism	Private Foundation	\$20,000	12
Welsh, JoEllen J. Tenniswood, Martin	Vitamin D and Mammary Gland	National Institutes of Health	\$272,009	12
<b>Department or Office:</b>	Center for Zebrafish Research			
Vihelic, Thomas S.	Phosphoinositide Cycle Roles for Vertebrate Lens Formation	National Institutes of Health	\$289,000	12
<b>Department or Office:</b>	Chemical and Biomolecular Engineering			
McGinn, Paul J.	Proton Conductors for Intermediate Temperature Fuel Cells	ACS Petroleum Research Fund	\$100,000	24
<b>Department or Office:</b>	Chemistry and Biochemistry			
Ashfeld, Brandon L.	Targeting Cytotoxic Anti-Leukemia Agents Utilizing an enantioselective Chromium-Catalyzed Domino Reaction Sequence	Leukemia Research Foundation	\$100,000	12
Baker, Brian M.	CAREER: Assembly and Dynamics of Class I Peptide/MHC Complexes	National Science Foundation	\$5,710	3

**Proposals submitted during the period Mar-01-2008 to Mar-31-2008**

Investigator(s)	Title	Sponsor	Dollars	Months
Chang, Mayland	Acquisition of 2D Liner Quadrupole Ion Trap Mass Spectrometer	National Institutes of Health	\$319,095	12
Kamat, Prashant V.	Long-range Charge Transfer in Biomimetic and Bioinspired Electrets.	University of California, Riverside	\$482,767	60
Miller, Marvin J.	Bioactive Compounds from Acylnitroso Cycloadducts	National Institutes of Health	\$375,000	12
Mobashery, Shahriar	Bacterial Cell Wall and Its Turnover.	National Institutes of Health	\$375,000	12
Scheidt, W. Robert	X-ray and Chemical Studies of Metalloporphyrins	National Institutes of Health	\$337,500	12
Smith, Bradley D.	Superior Near-IR Dyes for Bioimaging	Corporate Funding	\$36,000	9
<b>Department or Office:</b>	Civil Engineering and Geological Sciences			
Burns, Peter C.	Inorganic Controls on Neptunium Mobility in the Subsurface	National Science Foundation	\$608,601	36
Fein, Jeremy B. Burns, Peter C.	Effects of Co-Contaminants and Geochemical Micro-Environments on the Mobility of Technetium in the Vadose Zone	Department of Energy	\$750,000	36

**Proposals submitted during the period Mar-01-2008 to Mar-31-2008**

Investigator(s)	Title	Sponsor	Dollars	Months
Fein, Jeremy B. Burns, Peter C.	Consortium for the Environmental Safety of Nanotechnology (CESAN)	University of Minnesota	\$1,858,199	60
Kurama, Yahya C.	NEESR-SG Multi-Story Investigation of Post-Tensioned Coupling Systems for RC Shear Walls.	National Science Foundation	\$744,473	36
Talley, Jeffrey W. Powers, Joseph M. Paolucci, Samuel	Development of Emission Factors for Open Burning/Open Detonation Using Open Path FTIR and Supplementary Discrete Sampling.	U.S. Army Corps of Engineers	\$603,275	36
Talley, Jeffrey W. Powers, Joseph M. Paolucci, Samuel	Characterization of Emissions from Open Burn/Open Detonation Pits by Differential Optical Absorption Spectrometry and Tomography	Strategic Environmental Research and Development Program	\$1,641,498	36
Westerink, Joannes J.	Arcadis - USACE/FEMA Storm Surge Modeling Study of the Texas Coast.	Corporate Funding	\$186,394	10
<b>Department or Office:</b>	Computer Science & Engineering			
Blanton, Marina	CT-ISG Collaborative Research: New Directions in Accountable Anonymous and Deniable Channels.	National Science Foundation	\$200,356	36

**Proposals submitted during the period Mar-01-2008 to Mar-31-2008**

<b>Investigator(s)</b>	<b>Title</b>	<b>Sponsor</b>	<b>Dollars</b>	<b>Months</b>
Blanton, Marina	Collaborative Research: Techniques for Secure and Reliable Computational Outsourcing.	National Science Foundation	\$200,356	36
Poellabauer, Christian	Configurable QoS-Aware Routing in Wireless and Mobile Ad-Hoc Networks	U.S. Army Research Institute	\$300,000	36
Poellabauer, Christian	CAREER: Judicious Resource Management in Wireless Systems.	National Science Foundation	\$12,000	3
Poellabauer, Christian	NEDG: Customizable Routing in Wireless Relay Networks	National Science Foundation	\$393,599	36
Striegel, Aaron Poellabauer, Christian	NEDG: Cooperative Exploitation of Uncorrelated Packet Loss in 802.11	National Science Foundation	\$429,342	36
Striegel, Aaron	REU Supplement: CAREER: Transparent Bandwidth Conservation.	National Science Foundation	\$12,000	3
Striegel, Aaron Crowell, Charles R. D'Arcy, John P.	CT-ISG: A formal Inter-Disciplinary Study of the Impact of Security Awareness Efforts on User Behavior	National Science Foundation	\$496,429	36



**Proposals submitted during the period Mar-01-2008 to Mar-31-2008**

Investigator(s)	Title	Sponsor	Dollars	Months
Thain, Douglas L. Flynn, Patrick J.	Supplement to HECURA: Deconstructing Clusters for High End Biometric Research.	National Science Foundation	\$12,000	12
<b>Department or Office:</b>	Electrical Engineering			
Collins, Oliver M.	Calculating and Achieving Capacity in Multi-User Channels with Unknown Fading.	National Science Foundation	\$398,001	36
Collins, Oliver M.	Signal Processing for Digital Analog Interface	National Science Foundation	\$424,001	36
Costello, Daniel J. Fuja, Thomas E.	Collaborative Research: New Directions in Graph-Based Code Design	National Science Foundation	\$330,463	36
Costello, Daniel J. Haenggi, Martin	Collaborative Research: Distributed Error Correction Strategies in Wireless Networks	National Science Foundation	\$282,418	36
Fay, Patrick J.	Multi-Channel Dense Wavelength Division Multiplexed (DWDM) 10 Gbps Optical Transmitter.	Corporate funding	\$35,000	7
Fay, Patrick J.	Epitaxial Lift-Off of High Current Photodetectors.	Corporate Funding	\$30,000	6

**Proposals submitted during the period Mar-01-2008 to Mar-31-2008**

<b>Investigator(s)</b>	<b>Title</b>	<b>Sponsor</b>	<b>Dollars</b>	<b>Months</b>
Huang, Yih-Fang Laneman, J. N.	Wireless Systems with Limited CSI Feedback: Opportunities and Challenges.	National Science Foundation	\$470,286	36
Jena, Debdeep	AlN/GaN Heterostructure Based THz Detector Technology.	Corporate Funding	\$30,571	11
Snider, Gregory L. Lent, Craig S.	EMT/NANO: Silicon-Based Quantum-dot Cellular Automata,	National Science Foundation	\$838,700	36
<b>Department or Office:</b>	Physics			
Mathews, Grant J. Frauendorf, Stefan G. Caprio, Mark A.	Nuclear Properties at Extreme Density, Temperature, Spin and Isospin	Department of Energy	\$180,000	12
<b>Department or Office:</b>	Political Science			
Abbey, Ruth M.	The Return of Feminist Liberalism.	Tulane University	\$40,000	8
<b>Department or Office:</b>	Psychology			
Borkowski, John G. Maxwell, Scott E. Whitman, Thomas L.	Precursors of Retardation in Children with Teen Mothers	National Institutes of Health	\$298,227	12
Cummings, E. M. Darby, John Maxwell, Scott E.	Children and Political Violence in Northern Ireland	National Institutes of Health	\$703,878	12

**Proposals submitted during the period Mar-01-2008 to Mar-31-2008**

Investigator(s)	Title	Sponsor	Dollars	Months
Gibson, Bradley S. Gondoli, Dawn M.	Working Memory Training for adolescents with Attention-Deficit Hyperactivity Disorder.	National Institutes of Health	\$215,688	12
<b>Department or Office:</b>	Robinson Community Learning Center			
Kostielney, Andrew T.	Youth Justice Project	Indiana Criminal Justice Institute	\$22,500	6
Kyes, Ellen G.	Take Ten Comic Book-Second Edition.	Indiana Arts Commission	\$13,380	12
Kyes, Ellen G.	Take Ten Comic Book - Second Edition	Indiana Arts Commission	\$5,200	12
Kyes, Ellen G.	Take Ten Proposal to Wells Fargo Managed Trusts	Corporate Funding	\$15,000	12
<b>Department or Office:</b>	University Libraries			
Bayard, Laura A.	Project to Expand Modalities for Instruction Through Effective Technologies	Indiana State Library	\$5,435	12
<b><u>Proposals for Instructional Programs</u></b>				
<b>Department or Office:</b>	Center for Social Concerns			
Lies, William M. Purcell, William J.	Justice and Peace Fund Grant	Private Foundation	\$2,500	12

**Proposals submitted during the period Mar-01-2008 to Mar-31-2008**

<b>Investigator(s)</b>	<b>Title</b>	<b>Sponsor</b>	<b>Dollars</b>	<b>Months</b>
<b>Department or Office:</b>	Irish Language and Literature			
O Conchubhair, Brian	An IIE-Designed FLTA Orientation.	Institute for International Education	\$33,225	4
<b>Department or Office:</b>	Physics			
Furdyna, Jacek K.	Support for 37th International School on the Physics of Semiconducting Compounds to be held in Jaszowiec, Poland, June 7-13, 2008.	Institute of Physics of the Polish Academy of Sciences	\$5,000	12

**Proposals for Other Programs**

<b>Department or Office:</b>	Performing Arts Center			
Thompson, Anna M.	Luna Negra Dance Theater/"There is a Time"	National Endowment for the Arts	\$2,500	1
Thompson, Anna M. Barkes, Thomas M.	Luna Negra Dance Theatre	Arts Midwest	\$5,000	1
Thompson, Anna M. Barkes, Thomas M.	Spectrum Dance Theatre	Arts Midwest	\$5,000	4
Thompson, Anna M. Barkes, Thomas M.	Notre Dame Dance Immersion	National Endowment for the Arts	\$100,000	4

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

03/01/2008 to 03/31/2008

**Awards Received**

<b>Department or Office</b>	<b>No.</b>	<b>Amount</b>
Freimann Life Science Center	2	\$17,334
Institute for Latino Studies	1	\$16,490
Nano Science and Technology Center	1	\$6,000
<b>Total:</b>	<b>4</b>	<b>\$39,824</b>

**Proposals Submitted**

<b>Department or Office</b>	<b>No.</b>	<b>Amount</b>
Center for Aquatic Conservation	1	\$1,000
Center for Astrophysics	1	\$180,000
Center for Children and Families	2	\$1,002,105
Center for Global Health and Infectious Diseases	2	\$790,604
Center for Social Concerns	1	\$2,500
Center for Zebrafish Research	5	\$1,246,500
Keough Institute for Irish Studies	1	\$33,225
ND Energy Center	1	\$1,858,199
Nano Science and Technology Center	4	\$934,271
Performing Arts Center	1	\$100,000
Radiation Laboratory	1	\$482,767
Robinson Community Learning Center	4	\$56,080
<b>Total:</b>	<b>24</b>	<b>\$6,687,251</b>

## Awards and Proposal Summary

### Centers and Institutes Report

07/01/2007 to 03/31/2008

#### **Awards Received**

<b>Department or Office</b>	<b>No.</b>	<b>Amount</b>
ACE Educational Outreach	2	\$85,000
Alliance for Catholic Education	1	\$277,500
Biological Sciences	2	\$214,853
Center for Applied Mathematics	1	\$120,000
Center for Aquatic Conservation	2	\$955,637
Center for Astrophysics	5	\$313,333
Center for Children and Families	4	\$2,509,211
Center for Flow Physics and Control	22	\$2,291,779
Center for Global Health and Infectious Diseases	15	\$8,087,051
Center for Microfluidics and Medical Diagnostics	4	\$1,676,822
Center for Research Computing	1	\$98,332
Center for Social Concerns	2	\$13,374
Center for Transgene Research	1	\$355,568
Center for Zebrafish Research	1	\$250,547
Center for the Study of Religion and Society	1	\$25,000
Environmental Research Center	1	\$169,998
Freimann Life Science Center	5	\$162,235
Gigot Center	1	\$14,700
Institute for Church Life	2	\$160,000
Institute for Educational Initiatives	1	\$50,000
Institute for Latino Studies	6	\$293,930
Institute for Theoretical Sciences	1	\$57,976
Interdisciplinary Center for the Study of Biocomplexity	1	\$346,252
John A. Kaneb Center for Teaching and Learning	1	\$42,880
Joint Institute for Nuclear Astrophysics	1	\$86,250
Kellogg Institute for International Studies	3	\$170,625
Medieval Institute	3	\$80,400
ND Energy Center	2	\$125,010
Nano Science and Technology Center	20	\$3,746,732
Nuclear Structure Laboratory	3	\$2,091,250
Radiation Laboratory	5	\$4,182,918
Robinson Community Learning Center	5	\$131,000
The Graduate School (Other)	1	\$121,500

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

07/01/2007 to 03/31/2008

Department or Office	No.	Amount
Walther Cancer Research Center	4	\$973,552
<b>Total:</b>	<b>130</b>	<b>\$30,281,215</b>

**Proposals Submitted**

Department or Office	No.	Amount
ACE Educational Outreach	2	\$85,000
Biological Sciences	1	\$45,883
Center for Applied Mathematics	1	\$1,113,246
Center for Aquatic Conservation	11	\$8,111,034
Center for Astrophysics	9	\$2,173,350
Center for Children and Families	3	\$1,669,963
Center for Complex Network Research	3	\$1,062,726
Center for Educational Opportunity	1	\$35,000
Center for Ethics and Culture	1	\$103,500
Center for Flow Physics and Control	17	\$3,622,307
Center for Global Health and Infectious Diseases	21	\$11,041,835
Center for Microfluidics and Medical Diagnostics	4	\$1,115,747
Center for Philosophy of Religion	4	\$120,000
Center for Social Concerns	1	\$2,500
Center for Transgene Research	6	\$3,262,147
Center for Zebrafish Research	13	\$3,068,015
Center for the Study of Religion and Society	1	\$25,000
Department of Athletics	1	\$30,000
East Asian Languages and Literatures	1	\$1,500,000
Environmental Research Center	2	\$525,110
Freimann Life Science Center	7	\$800,740
Institute for Church Life	2	\$547,000
Institute for Educational Initiatives	3	\$175,000
Institute for Latino Studies	11	\$1,146,792
Institute for Theoretical Sciences	1	\$86,964
Interdisciplinary Center for the Study of Biocomplexity	4	\$1,659,825
John A. Kanab Center for Teaching and Learning	1	\$42,880
Joint Institute for Nuclear Astrophysics	6	\$30,967,291
Kellogg Institute for International Studies	4	\$160,000
Keough Institute for Irish Studies	2	\$172,526
Kroc Institute for International Peace Studies	4	\$493,609
Lobund Laboratory	1	\$69,203
Medieval Institute	2	\$900,000
ND Energy Center	7	\$6,425,287
Nano Science and Technology Center	27	\$16,453,816
Nuclear Structure Laboratory	2	\$9,955,879

**Awards and Proposal Summary**

Centers and Institutes Report

07/01/2007 to 03/31/2008

<b>Department or Office</b>	<b>No.</b>	<b>Amount</b>
Performing Arts Center	1	\$100,000
Radiation Laboratory	7	\$1,438,553
Robinson Community Learning Center	15	\$169,080
Walther Cancer Research Center	6	\$1,776,309
<b>Total:</b>	<b>216</b>	<b>\$112,253,117</b>



**Awards received during the period Mar-01-2008 to Mar-31-2008****Centers and Institutes Report**

<b>Investigator(s)</b>	<b>Title</b>	<b>Sponsor</b>	<b>Dollars</b>	<b>Award #</b>
<b><u>Awards for Research</u></b>				
<b>Department or Office:</b> Freimann Life Science Center				
Suckow, Mark A. (Center or Institute)	Imaging Model Development	Corporate Funding	\$9,114	007337-001
Suckow, Mark A. (Center or Institute)	Evaluation of Modified ECM Hernia Repair Device.	Corporate Funding	\$8,220	007335-001
<b>Department or Office:</b> Institute for Latino Studies				
Cardenas, Gilberto (Center or Institute)	Documents of 20th Century Latin American and Latino Art	Museum of Fine Arts, Houston	\$16,490	007052-001
<b>Department or Office:</b> Nano Science and Technology Center				
Bernstein, Gary H. Fay, Patrick J. (Center or Institute)	Novel Superconnects for Ultrahigh-Performance Hybrid Communications System	National Science Foundation	\$6,000	006920-001

**Proposals submitted during the period Mar-01-2008 to Mar-31-2008**

**Centers and Institutes Report**

Investigator(s)	Title	Sponsor	Dollars	Proposal #
<b><u>Proposals for Research</u></b>				
<b>Department or Office:</b> Center for Aquatic Conservation				
Lodge, David M.	Identifying Invasion Corridors Through Genetic Analysis of Bythotrephes Longimanus in Inland Lakes.	Sigma Xi	\$1,000	08090540
<b>Department or Office:</b> Center for Astrophysics				
Mathews, Grant J. Frauendorf, Stefan G. Caprio, Mark A.	Nuclear Properties at Extreme Density, Temperature, Spin and Isospin	Department of Energy	\$180,000	08090530
<b>Department or Office:</b> Center for Children and Families				
Cummings, E. M. Darby, John Maxwell, Scott E.	Children and Political Violence in Northern Ireland	National Institutes of Health	\$703,878	08090565
Borkowski, John G. Maxwell, Scott E. Whitman, Thomas L.	Precursors of Retardation in Children with Teen Mothers	National Institutes of Health	\$298,227	08090556
<b>Department or Office:</b> Center for Global Health and Infectious Diseases				
Ferdig, Michael T.	Genome Surveillance for Drug Resistant Malaria	Harvard University	\$120,018	08090528
Severson, David W. Romero-Severson, Jeanne	Molecular Genetics of Dengue Resistance in Mosquitoes	National Institutes of Health	\$670,586	08090575

**Proposals submitted during the period Mar-01-2008 to Mar-31-2008****Centers and Institutes Report**

<b>Investigator(s)</b>	<b>Title</b>	<b>Sponsor</b>	<b>Dollars</b>	<b>Proposal #</b>
<b>Department or Office:</b> Center for Zebrafish Research				
Thummel, Ryan	The Platinum Zebrafish Mutant is a Model for Studying the Mechanism Underlying Vision Defects Associated with Albinism	Private Foundation	\$20,000	08090525
Li, Lei	Characterization of dominant night blindness mutations in zebrafish	National Institutes of Health	\$375,000	08090524
Vihtelic, Thomas S.	Phosphoinositide Cycle Roles for Vertebrate Lens Formation	National Institutes of Health	\$289,000	08090526
Hyde, David R.	Role of Pax6 in Photoreceptor Cell Regeneration Using Conditional Knockdowns	National Institutes of Health	\$225,000	08090568
Hyde, David R.	Genetic Hierachy Underlying Photoreceptor Regeneration	National Institutes of Health	\$337,500	08090580
<b>Department or Office:</b> ND Energy Center				
Fein, Jeremy B. Burns, Peter C.	Consortium for the Environmental Safety of Nanotechnology (CESAN)	University of Minnesota	\$1,858,199	08090537
<b>Department or Office:</b> Nano Science and Technology Center				
Snider, Gregory L. Lent, Craig S.	EMT/NANO: Silicon-Based Quantum-dot Cellular Automata,	National Science Foundation	\$838,700	08090538

**Proposals submitted during the period Mar-01-2008 to Mar-31-2008**

**Centers and Institutes Report**

<b>Investigator(s)</b>	<b>Title</b>	<b>Sponsor</b>	<b>Dollars</b>	<b>Proposal #</b>
Fay, Patrick J.	Epitaxial Lift-Off of High Current Photodetectors.	Corporate Funding	\$30,000	08090550
Fay, Patrick J.	Multi-Channel Dense Wavelength Division Multiplexed (DWDM) 10 Gbps Optical Transmitter.	Corporate Funding	\$35,000	08090551
Jena, Debdeep	AlN/GaN Heterostructure Based THz Detector Technology.	Corporate Funding	\$30,571	08090549
<b>Department or Office:</b>	Radiation Laboratory			
Kamat, Prashant V.	Long-range Charge Transfer in Biomimetic and Bioinspired Electrets.	University of California, Riverside	\$482,767	08090548
<b>Department or Office:</b>	Robinson Community Learning Center			
Kostielney, Andrew T.	Youth Justice Project	Indiana Criminal Justice Institute	\$22,500	08090529
Kyes, Ellen G.	Take Ten Proposal to Wells Fargo Managed Trusts	Corporate Funding	\$15,000	08090574
Kyes, Ellen G.	Take Ten Comic Book - Second Edition	Indiana Arts Commission	\$5,200	08090573
Kyes, Ellen G.	Take Ten Comic Book-Second Edition.	Indiana Arts Commission	\$13,380	08090520

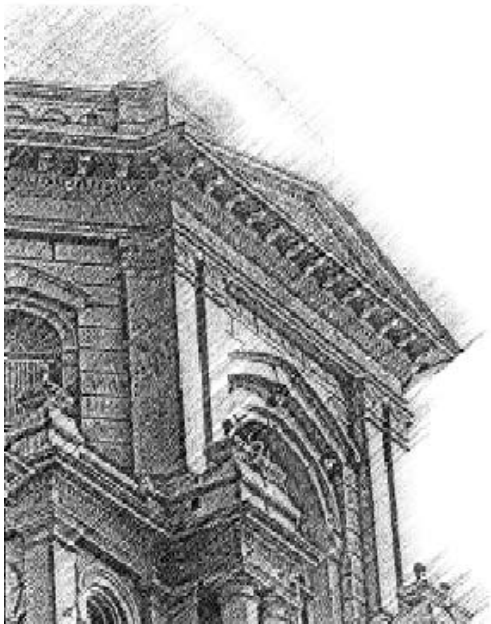
**Proposals submitted during the period Mar-01-2008 to Mar-31-2008****Centers and Institutes Report**

<b>Investigator(s)</b>	<b>Title</b>	<b>Sponsor</b>	<b>Dollars</b>	<b>Proposal #</b>
<b><u>Proposals for Instructional Programs</u></b>				
<b>Department or Office:</b>	Center for Social Concerns			
Lies, William M.	Justice and Peace Fund	Private Foundation	\$2,500	08090571
Purcell, William J.	Grant			
<b>Department or Office:</b>	Keough Institute for Irish Studies			
O Conchubhair, Brian	An IIE-Designed FLTA Orientation.	Institute for International Education	\$33,225	08090536
<b><u>Proposals for Other Programs</u></b>				
<b>Department or Office:</b>	Performing Arts Center			
Thompson, Anna M.	Notre Dame Dance Immersion	National Endowment for the Arts	\$100,000	08090532
Barkes, Thomas M.				

---

# Notre Dame Report

---



Volume 37, Number 8

April 25, 2008

*Notre Dame Report* is an official publication published monthly during the school year by the Office of the Provost at the University of Notre Dame.

Office of the Provost  
300 Main Building  
provost@nd.edu

**For submissions only:** [ndreport.1@nd.edu](mailto:ndreport.1@nd.edu)  
© 2008 by the University of Notre Dame  
Notre Dame IN 46556.

All rights reserved.

## Submissions to *Notre Dame Report*

Information for reporting activities, honors, or publications should be sent by e-mail to [ndreport@nd.edu](mailto:ndreport@nd.edu). Paper submission forms and copies of publications are no longer needed. For deadlines and other submission information, see issue 1 of the report or contact the editor at [ndreport.1@nd.edu](mailto:ndreport.1@nd.edu).