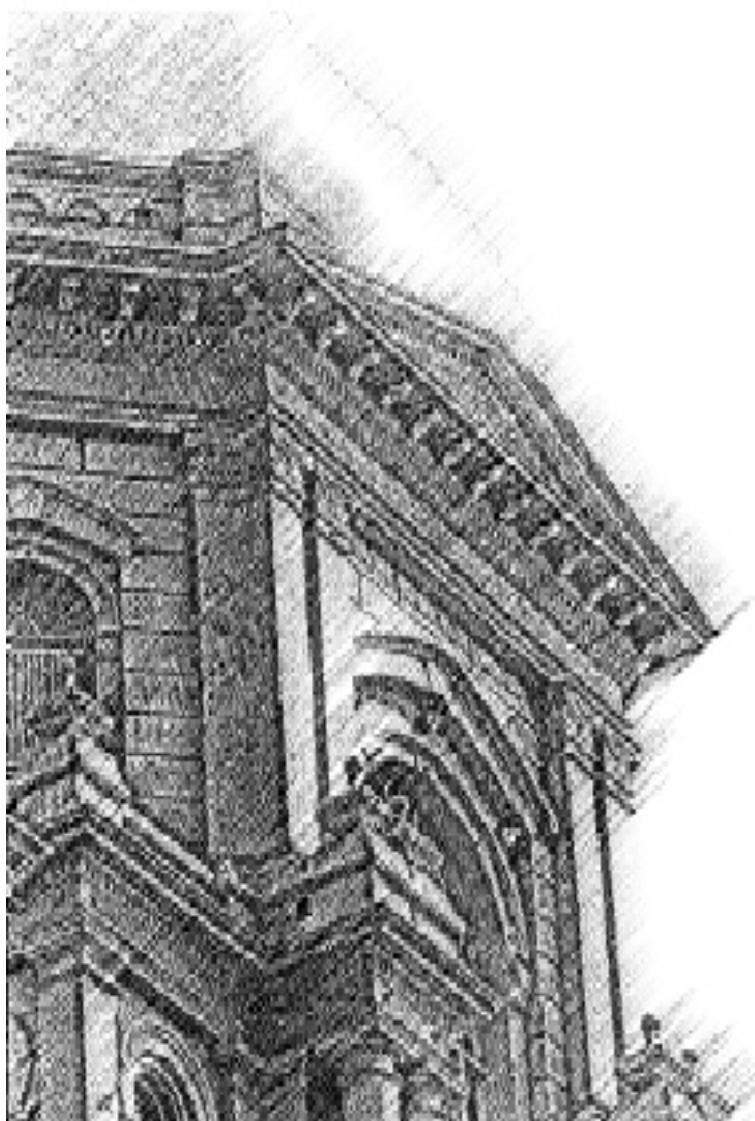


Notre Dame Report



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Research

- 5 July 2005

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N U M B E R 1

Faculty Notes

Honors

Darcia Narvaez, associate professor of psychology and director of the Center for Ethical Education, was named book review editor for the *Journal of Moral Education* for a five-year term.

Valerie Sayers, professor of English, was awarded a 2005 Pushcart Prize for her story "Walker Evans is a Spy on the Lexington Avenue Local," which originally appeared in *Zoetrope* 8, No. 4 (winter 2004).

Thomas Gordon Smith, professor of architecture, received the "Award for Excellence in Construction" from the Associated Builders of Oklahoma for construction of Our Lady of Clear Creek Benedictine Monastery, Hulbert, Okla., Phase I; and was appointed to the Fellowship Advisory Committee for the Sir John Soane's Museum Foundation.

Activities

Peter Cholak, professor of mathematics, was a member of the Institute for Mathematical Sciences, National Univ. of Singapore, from July 14 through Aug. 12, where he presented "Progress on the c.e. Sets: Improving and Proving the Slaman-Woodin Conjecture" and "Uniform Almost Everywhere Domination."

Ian Duncanson, professional specialist in the Radiation Laboratory, presented "Basic Vacuum Technology for Junior Glassblowers" at the "American Scientific Glassblowers Society's 50th Symposium," Bloomington, Ill., June 30.

Leonid Faybusovich, professor of mathematics, presented the invited talk titled "Implementation of Infinite-Dimensional Interior-Point Method for Multi-Criteria Linear-Quadratic Control Problem" at the "Foundations of Computational Mathematics" meeting in Santander, Spain, July 4;

and the invited talk "Jordan-Algebraic Approach to Convexity Theorems for Quadratic Mappings" at "IFORS 2005," Honolulu, July 12.

Thomas A. Gresik, professor in the Dept. of Economics and Econometrics, presented "Yardstick Regulation with no External Benchmarks" at the "16th International Conference on Game Theory" at SUNY-Stony Brook, July 11–15.

Sandra M. Gustafson, associate professor of English, chaired a conference on "Histories of Print, Manuscript, and Performance" for the American Antiquarian Society, June 10–12, where she presented "The Emerging Media of Early America" as the "James Russell Wiggins Lecture on the History of the Book," which was also the conference keynote address; and delivered a keynote lecture titled "Histories of Empire and Democratic Literature" at the Great Lakes American Studies Association meeting in March.

Kwan S. Kim, professor of economics and policy studies and a fellow of the Kellogg Institute, presented a paper titled "Safeguarding against Crisis: East Asian Financial Cooperation" at a "Banking Issues" session jointly organized by the Western Economic Association International and the North American Economic and Finance Association in San Francisco, July 8.

Pat Loghry, assistant librarian, presented the invited talk titled "Licensing: From Negotiation to Challenge" at the American Library Association's meeting in Chicago, June 25.

Ralph McInerney, the Michael P. Grace Professor of Medieval Studies, director of the Jacques Maritain Center, and professor of philosophy, presented "Implicit Moral Knowledge" at the Univ. of Tulsa, March 30; "Liberal Education" at Providence Academy, Minneapolis, May 18; "Freedom is Not Enough: Catholics in America" at the Univ. of Portland, June 3; "The Philosophy of Religion" at the Pontifical Academy of

Thomas Aquinas, Vatican City, in June; the keynote address at the "Action and Conduct Thomistic Conference," Notre Dame, July 5; "What is Literature?" and a workshop on "Let's Write a Mystery" at the "Univ. of Georgia Writers' Conference," Athens July 16; and "Charles deKoninck and the Philosophy of Science" at the "Physics of Realists Conference," Notre Dame, July 27.

Darcia Narvaez, associate professor of psychology and director of the Center for Ethical Education, presented "Integrative Ethical Education: Cultivating Flourishing Citizens" at the "International Symposium on the Theoretical and Practical Issues of School Civil Education and Moral Education in the 21st Century" and "Moral Psychology and Moral Text Processing" and "A New Approach to Moral Education based on Psychological Science" at Sun-Yat-Sen Univ., June 20–22; and "*Educacion integrativa etica: Cultivar el florecimiento humano* [Integrative Ethical Education: Cultivating Human Flourishing]" at "*Coloquio internacional sobre la etica, ciudadania y educacion frente a la sociedad del conocimiento* [International Conference on Ethical Citizenship and Education in a Knowledge Society]" Monterrey, Mexico, in June.

Rudolph M. Navari, associate dean, College of Science, and director of the Notre Dame Cancer Institute, presented "Coping with Nausea" at the "National CURE Patient and Survivor Forum," July 9, in Washington, DC.

Rev. Ronald Nuzzi, director, ACE Leadership Program, convened a video conference on Catholic education with the Vatican, involving Archbishop J. Michael Miller of the Congregation for Catholic Education, Rome, July 12.

Joseph M. Powers, associate professor of aerospace and mechanical engineering, presented the invited seminar "Resolution Matters: Issues in Computational Simulation of Multiscale Gas Phase Combustion" at the Chemistry Division, Argonne National Laboratory, Argonne, Ill., June 30.

Thomas Gordon Smith, professor of architecture, presented "The Joseph Swift House on the Vermillion River" to the Ohio Landmarks Society, Norwalk, Ohio, in June; "The New Classicism" at the Indiana Leadership Conference, Indianapolis, in

June; “Federal and Grecian Architecture in NoHo, the Fiftieth Ward” for the Institute of Classical Architecture/Classical America, New York, in April; “Vitruvius and the Museum of Architecture” at Purdue Univ. in April; and “Architecture and Lively Mental Energy” at the “Divine Comedies: Humor, Harmony and Redemption” conference, Baylor Univ., in April.

Yang Sun, visiting associate professor of physics, presented “Nuclear Isomers: Structures and Applications” at the Joint Center for Nuclear Physics, Peking Univ., Beijing, May 17.

Laurence R. Taylor, professor of mathematics, chaired a session of the “Algebraic K- and L-Theory of Infinite Groups” conference in Edinburgh, July 1; and presented the invited plenary lecture titled “Cohomology of Some Configuration Spaces and Associated Bundles” at the “Groups, Homotopy and Configuration Spaces” conference in Tokyo, July 11.

G.N.R. Tripathi, professional specialist in the Radiation Laboratory, presented “Raman Detection of Radicals on Metallic Interfaces: Can We Detect a Single Radical Species?” at the “Gordon Research Conference on Free Radical Reactions,” Plymouth, N.H., July 3–8.

Publications

Stephen Fredman, professor and chair of English, edited *A Concise Companion to Twentieth-Century American Poetry* (Oxford: Blackwell Publishing, 2005): xxvii + 258 pp., and wrote the “Introduction,” 1–10, and “Mysticism: Neo-Paganism, Buddhism, and Christianity,” 191–211.

Agustin Fuentes, associate professor of anthropology and the Flatley Director of the Office of Undergraduate and Post-Baccalaureate Fellowships, published “Primate to Human Retroviral Transmission in Asia” with L. Jones-Engel, et al., *Emerging Infectious Diseases* 11, No. 7 (2005); “Agonism and Affiliation: Adult Male Sexual Strategies across One Mating Period in Three Groups of Long-Tailed Macaques (*Macaca fascicularis*)” with J. Loudon and A. Welch, *Laboratory Primate Newsletter* 44, No. 3 (2005): 12–151; “Ethnography, Cultural Context, and Assessments of Re-

productive Success Matter when Discussing Human Mating Strategies,” *Behavioral and Brain Sciences* 28, No. 2 (2005): 284–5; and “Monkey Forests and Human Landscapes: Is Extensive Sympatry Sustainable for *Homo sapiens* and *Macaca fascicularis* in Bali?” with M. Southern and K.G. Suaryana, In J. Patterson and J. Wallis, eds. *Commensalism and Conflict: The Primate-Human Interface* (2005): 168–95.

Kevin Hart, the Notre Dame Professor of English and concurrent professor of philosophy and fellow of the Nanovic Institute, published “Paul and the Reduction,” *Journal of Scripture and Philosophy* 2, No. 2 (2005).

Scott Mainwaring, the Conley Professor of Science and Kroc and Kellogg Institutes fellow, published two chapters [“Introduction: The Third Wave of Democratization in Latin America,” pp. 1–13; and “Latin American Democratization since 1978: Democratic Transitions, Breakdowns, and Erosions” (with A. Pérez-Liñán), pp. 14–59] in *The Third Wave of Democratization in Latin America: Advances and Setbacks* (Cambridge: Cambridge Univ. Press, 2005), edited with **Frances Hagopian**, the Grace Chair in Latin American Studies and Kellogg Institute fellow.

Ralph McInerny, the Michael P. Grace Professor of Medieval Studies, director of the Jacques Maritain Center, and professor of philosophy, published “Assenza di Dio, assenza dell’uomo” in *Il Desiderio di Conoscere la Verità*, eds. A. Livi and G. Lorzio (Rome:

Lateran Univ. Press, 2005): 77–89; “Textual Attraction” in *Fellowship of Catholic Scholars Quarterly* 28, No.1 (spring): 52; and “Presidential Letter” in *The Maritain Notebook* 13, No. 1 (spring): 1.

Darcia Narvaez, associate professor of psychology and director of the Center for Ethical Education, published “Minnesota’s Community Voices and Character Education Project” with T. Bock, L. Endicott, and J. Lies, *Journal of Research in Character Education* 2 (2004): 89–112; “The Psychological Foundations of Everyday Morality and Moral Expertise” with D. Lapsley in D. Lapsley and C. Power, eds. *Character Psychology and Character Education* (Notre Dame: Univ. of Notre Dame Press, 2005): 140–65; “Moral Psychology at the Crossroads” with D. Lapsley, *ibid.*: 18–35; “The Neo-Kohlbergian Tradition and Beyond: Schemas, Expertise and Character” in G. Carlo and C. Pope-Edwards, eds., *Nebraska Symposium on Motivation Moral Motivation through the Lifespan* 51 (Lincoln: Univ. of Nebraska Press, 2005): 119–63; and “Integrative Ethical Education” in M. Killen and J. Smetana, eds. *Handbook of Moral Development* (Mahwah, N.J.: Erlbaum, 2005): 703–33.

Yang Sun, visiting associate professor of physics, published with M. Hasegawa, et al., “Structure of Isomeric States in 66As and 67As,” *Phys. Lett. B* 617 (2005): 150.

Administrators’ Notes

Publications

Alan S. Bigger, director of Building Services, published “Get the Stink Out” in *CM Cleaning and Maintenance Management ONLINE*, at http://www.cmmonline.com/howto.asp?H_ID=1388, Aug. 8.

Documentation

2005–2006 Publication Schedule for *Notre Dame Report* Vol. 35

No. 1

Deadline: Wednesday, Aug. 24
Publication Date: Friday, Sept. 9

No. 2

Deadline: Wednesday, Sept. 7
Publication Date: Friday, Sept. 23

No. 3

Deadline: Wednesday, Sept. 21
Publication Date: Friday, Oct. 7

No. 4

Publication Date: Friday, Oct. 21

No. 5

Deadline: Wednesday, Oct. 12
Publication Date: Friday, Oct. 28

No. 6

Deadline: Wednesday, Oct. 26
Publication Date: Friday, Nov. 11

No. 7

Deadline: Wednesday, Nov. 9
Publication Date: Friday, Nov. 25

No. 8

Deadline: Wednesday, Nov. 23
Publication Date: Friday, Dec. 9

No. 9

Deadline: Wednesday, Jan. 4, 2006
Publication Date: Friday, Jan. 20

No. 10

Deadline: Wednesday, Jan. 18
Publication Date: Friday, Feb. 3

No. 11

Deadline: Wednesday, Feb. 1
Publication Date: Friday, Feb. 17

No. 12

Deadline: Wednesday, Feb. 15
Publication Date: Friday, March 3

No. 13

Deadline: Wednesday, March 1
Publication Date: Friday, March 17

No. 14

Deadline: Wednesday, March 15
Publication Date: Friday, March 31

No. 15

Deadline: Wednesday, March 29
Publication Date: Friday, April 14

No. 16

Deadline: Wednesday, April 12
Publication Date: Friday, April 28

No. 17

Deadline: Wednesday, April 26
Publication Date: Friday, May 12

No. 18

Deadline: Wednesday, May 17
Publication Date: Friday, June 2

No. 19

Deadline: Wednesday, June 7
Publication Date: Friday, June 23

No. 20

Deadline: Wednesday, July 5
Publication Date: Friday, July 21

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Publication Date: Friday, Aug. 18

Notre Dame Report Submission Information

Faculty (all classes: teaching research faculty, special professional faculty, and librarians and special research faculty) and administrators may **submit information to be printed in *Notre Dame Report* via e-mail to ndreport.1@nd.edu**. Receipt of information will be acknowledged as soon as edited for placement in an upcoming issue. **Please be sure to indicate ND faculty or administrators' names with an asterisk after each one and list their correct titles.**

Faculty and Administrators' Notes: Appointments include only those University appointments such as deans, department heads, heads of committees, and administrative professionals. This does not include appointments to faculty positions.

HONORS is composed of non-University appointments in one's field and outright honors. It does not include fellowships, grants, etc. Any grants not published in the Awards Received section of the *Report* will be noted in Activities. Information required for each honor submitted includes: name, rank or title, department, honor, name of organization bestowing honor, city, state, and date (if applicable).

ACTIVITIES must be of a professional and public nature (such as invited lectures and papers read) and should be related to one's work at the University. Lectures given on campus are only acceptable if they are of a special nature and/or if they are presented to a broader audience than the Notre Dame community. Merely attending a meeting is unacceptable. Information required for each activity submitted includes: name, rank or title, department, title of presentation, title of conference or institution, city, state, and date. No activities are printed ahead of the date, only after the fact. Activities may not be reported if over six months out of date.

PUBLICATIONS of books, articles in journals, proceedings, or books, as well as reviews, are published in *Notre Dame Report*. Information required for a publication in a book or journal includes: name, rank or title, department (for all Notre Dame authors), title of article, name of journal (volume number, issue number, date) or name of book (author, place of publication, publisher, date), and page numbers. Information required for a published or edited book includes: name, rank or title, department (for all Notre Dame authors), book title, place of publication, publisher, date, and total number of pages. Publications may not be reported if over six months past publication date.

Documentation: Meeting minutes from the Graduate Council, Academic Council, University Committee on Libraries, Committee on Research and Sponsored Programs, Faculty Board on Athletics, and University Committee on Women Faculty and Students are printed in *Notre Dame Report*. These minutes should be sent in electronic form (in rtf or Word format) to ndreport.1@nd.edu.

Omissions and Corrections

In issue 19, **Alyssa Gillespie** was identified as the Notre Dame Associate Professor of Russian Language and Literature and Nanovic Institute fellow. It should have been Associate Professor of Russian Language and Literature and Nanovic Institute fellow.

Issue 19 contained errors in the entry for Juan Migliore. It should have read as follows: **Juan Migliore**, professor of mathematics, taught “Experiments in Commutative Algebra and Algebraic Geometry” at the “Fourth Computations in Commutative Algebra International School on Computer Algebra,” Sardinia, Italy, May 23–26; the invited talk “The Multiplicity Conjecture in Low Codimensions” in the “Special Session on Hilbert Functions and Syzygies” at the “Second Joint Meeting of the American Mathematical Society, the Deutsche Mathematiker-Vereinigung and the Oesterreichische Mathematische Gesellschaft,” held in Mainz, Germany, June 19; and the invited talk “Tetrahedral Curves and Their Geometric Properties” at the “Conference on Geometry of Algebraic Varieties,” Ferrara, Italy on June 22.

In issue 19, **Philip Sloan** was identified incorrectly. He is a professor in the Program of Liberal Studies and in the graduate program in history and philosophy of science.

Research

Awards and Proposal Summary

07/01/2005 to 07/31/2005

Awards Received

Category	No.	Amount
Research	33	\$9,031,981
Total:	33	\$9,031,981

Proposals Submitted

Category	No.	Amount
Research	45	\$16,841,876
Total:	45	\$16,841,876

July 2005 Cumulative summary

Awards Received

	07.01.2003 - 07.31.2003		07.01.2004 - 07.31.2004		07.01.2005 - 07.31.2005	
Category	No.	Amount	No.	Amount	No.	Amount
Research	54	\$8,164,695	34	\$8,355,882	33	\$9,031,981
Facilities and Equipment						
Instructional Programs	1	\$63,500				
Other Programs						
Service Programs						
Total:	55	\$8,228,195	34	\$8,355,882	33	\$9,031,981

Proposals Submitted

	07.01.2003 - 07.31.2003		07.01.2004 - 07.31.2004		07.01.2005 - 07.31.2005	
Category	No.	Amount	No.	Amount	No.	Amount
Research	60	\$17,928,830	53	\$24,885,696	45	\$16,841,876
Facilities and Equipment						
Instructional Programs	1	\$17,181	1	\$199,947		
Other Programs						
Service Programs						
Total:	61	\$17,946,011	54	\$25,085,643	45	\$16,841,876

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 Jul-01-2005 to Jul-31-2005

Investigator(s)	Title	Sponsor	Dollars	Months
<u>Awards for Research</u>				
Department or Office:	Aerospace and Mechanical Engineering			
Jumper, Eric J. (Center or Institute)	Characterizations of Aero-Optic Effect on Airbourne, Free-Space Optical Communications	Corporate Funding	\$60,000	7
Niebur, Glen L. Ovaert, Timothy C.	Growth of Trabecular Bone Damage Due to Off-Axis Loads	National Institutes of Health	\$265,500	11
Ovaert, Timothy C. Renaud, John E. Niebur, Glen L. Roeder, Ryan K.	Computer Modeling and Etiological Investigation of Acute Injury Risk	Centers for Disease Control & Prevention	\$347,200	12
Thomas, Flint O. Corke, Thomas C. (Center or Institute)	Plasma Fairings for Landing Gear Noise Reduction	National Aeronautics and Space Administration	\$70,000	36
Department or Office:	Anthropology			
Schurr, Mark R.	Radiocarbon Dating of the Red Ocher Culture of the Brems Focus in the Upper Kankakee Valley	Private Foundation	\$1,785	12
Schurr, Mark R.	Trail Creek Dune-Riverine Coastal Complex Archaeological Survey	Michigan City Parks and Recreation Board	\$10,000	16
Department or Office:	Biological Sciences			
Feder, Jeffrey L. Lodge, David M. Lamberti, Gary A. Besansky, Nora J. Fuentes, Agustin	IGERT: Global Linkage of Biology, Environment, and Society (GLOBES)	National Science Foundation	\$660,899	59

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

Investigator(s)	Title	Sponsor	Dollars	Months
Franci, Karen E. (Center or Institute)	Herpetofaunal Distributions in Gogebic County, Michigan	Michigan Department of Natural Resources	\$8,655	4
Franci, Karen E.	Herpetofaunal Surveys in Gogebic County	U.S. Forest Service	\$1,700	4
McKee, Edward E. (Center or Institute)	Heart Mitochondrial Toxicity of Antiviral Nucleosides	I.U. School Medicine	\$232,860	46
Department or Office:	Chemical Engineering			
Wolf, Eduardo E	High Throughput Activity and in-situ FTIR and EXAFS Studies of the Effect of S on Noble Metal Supported Oxidation Catalysts	National Science Foundation	\$13,580	47
Department or Office:	Chemistry and Biochemistry			
Goodson, Holly V.	Interactions Between CLIP-170 and Microtubules	National Institutes of Health	\$259,875	48
Scheidt, W. Robert	X-Ray and Chemical Studies of Metalloporphyrins	National Institutes of Health	\$337,500	36
Taylor, Richard E. (Center or Institute)	Synthesis of Biologically Significant Cyclopropanes	National Science Foundation	\$268,000	36
Department or Office:	Civil Engineering and Geological Sciences			
Fein, Jeremy B.	Thermodynamic Properties of Uranyl Minerals	Argonne National Laboratory	\$80,000	12
Salvati, Lynn A. Vichit-Vadakan, Wilasa	Development of Guidelines for the Use Ground Blast Furnace Slag as an Admixture for Clay Improvement	Corporate Funding	\$104,333	21

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

Investigator(s)	Title	Sponsor	Dollars	Months
Department or Office: Computer Science & Engineering				
Striegel, Aaron	TCP/IP Control Plane Enhancements	Corporate Funding	\$37,500	21
Department or Office: Electrical Engineering				
Bauer, Peter H.	Collaborative Research: Distributed Information Fusion Networks for Threat Detection and Assessment	National Science Foundation	\$49,985	36
Bernstein, Gary H. (Center or Institute)	Match Funding to the EBL System funded under DARPA/NAVY Grant N00014-04-1-0800	Corporate Funding	\$25,000	13
Fay, Patrick J. Seabaugh, Alan C. (Center or Institute)	NIRT: Extremely-Mismatched Materials for Advanced Nanodevices	National Science Foundation	\$1,300,000	48
Fuja, Thomas E. Costello, Daniel J. Rosenthal, Joachim J. Massey, Peter C.	ITR Collaborative Research: Toward Practical Graph-Based Coding Schemes for Reliable Wireless Communications	National Science Foundation	\$183,028	47
Department or Office: English				
Delgadillo, Theresa A.	2005 Career Enhancement Fellowship for Junior Faculty	Private Foundation	\$31,500	12
Department or Office: Kroc Institute for International Peace Studies				
Lederach, John P. Darby, John (Center or Institute)	Monitoring and Learning from Best Practices in Southeast Asian Peacebuilding	U.S. Institute of Peace	\$45,000	18
Department or Office: Mathematics				
Hind, Richard K.	Holomorphic Curves in Symplectic and Complex Geometry	National Science Foundation	\$99,497	36

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

Investigator(s)	Title	Sponsor	Dollars	Months
Department or Office: Philosophy				
McInerny, Ralph M.	Bradley Graduate and Post Graduate Fellowship Program for AY2005-06	Private Foundation	\$25,000	12
Department or Office: Physics				
Bennett, David P. (Center or Institute)	High Resolution Follow-up Observations of the Microclensing Event OGLE	Space Telescope Science Institute	\$19,080	24
Kolata, James J.	Nuclear Reactions Studied With Short-Lived Nuclear Beams	University of Michigan	\$57,948	24
Wiescher, Michael C (Center or Institute)	Joint Institute for Nuclear Physics	National Science Foundation	\$2,000,000	48
Department or Office: Political Science				
Campbell, David E.	Religion and Social Capital	Harvard University	\$143,966	25
Department or Office: Psychology				
Borkowski, John G. Maxwell, Scott E. (Center or Institute)	Neglect in High-Risk Mothers	National Institutes of Health	\$1,662,590	60

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

Investigator(s)	Title	Sponsor	Dollars	Months
Department or Office: Radiation Laboratory				
Carmichael, Ian C.	Radiation and Photochemistry in Condensed Phase	Department of Energy	\$150,000	29
Ferraudi, Guillermo J.				
Kamat, Prashant V.				
Madden, Keith P.				
LaVerne, Jay A.				
Guldi, Dirk M.				
Hug, Gordon L.				
Chipman, Daniel M.				
Tripathi, Gorakh Nath R.				
Bentley, John J.				
Pimblott, Simon M.				
Meisel, Dan				
Bartels, David M.				
(Center or Institute)				
Carmichael, Ian C.	Radiation and Photochemistry in Condensed Phase	Department of Energy	\$400,000	29
Ferraudi, Guillermo J.				
Kamat, Prashant V.				
Madden, Keith P.				
LaVerne, Jay A.				
Guldi, Dirk M.				
Hug, Gordon L.				
Chipman, Daniel M.				
Tripathi, Gorakh Nath R.				
Bentley, John J.				
Pimblott, Simon M.				
Meisel, Dan				
Bartels, David M.				
(Center or Institute)				
Department or Office: Theology				
Ulrich, Eugene C.	The Dead Sea Scrolls Project	National Endowment for the Humanities	\$80,000	12
VanderKam, James C.				

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

Investigator(s)	Title	Sponsor	Dollars	Months
<u>Proposals for Research</u>				
Department or Office:	Aerospace and Mechanical Engineering			
Jumper, Eric J.	Year 2 Aero-Optical	Corporate Funding	\$208,419	10
Rennie, Robert M.	Modeling and Validation			
Cavalieri, David	for HEL Systems			
Gordeyev, Stanislav V.				
Morris, Scott C.	CAREER: Pressure, Strain and Vorticity in Shear Flows	National Science Foundation	\$400,000	60
Niebur, Glen L.	CAREER: Computational simulation of fracture in cortical and trabecular bone	National Science Foundation	\$642,161	60
Roeder, Ryan K.	CAREER: Hierarchical Processing-Structure-Property Relationships in Synthetic Bone Substitutes	National Science Foundation	\$675,356	60
Department or Office:	Biological Sciences			
Boyd, Sunny K.	Computational Models for Neurochemical Control of Social Behavior	National Science Foundation	\$684,646	36
Scheutz, Matthias J.				
Duman, John G.	Structural/Function Studies of Antifreeze Proteins and Their Enhancers from the Beetle <i>Dendroides Canadensis</i>	National Science Foundation	\$603,089	36

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

Investigator(s)	Title	Sponsor	Dollars	Months
Feder, Jeffrey L.	Collaborative Research: Parallel and Cascading Host Race Formation and Speciation Accross Trophic Levels	National Science Foundation	\$455,240	36
Hellmann, Jessica J.	Explorations of hybrid performance and genetic intogression under climate change using species pairs of varying phylogenetic divergence	National Science Foundation	\$399,971	36
Shay, Neil F.	Soy Isoflavones: anti-lipotoxic and anti-oxidative dietary supplements	Private Foundation	\$260,000	48
Shay, Neil F.	Antidiabetic effect of soy isoflavones is mediated by lipid and xenobiotic sensing nuclear receptors	Private Foundation	\$299,997	36
Shay, Neil F.	Soy Isoflavones: anti-lipotoxic and anti-oxidative dietary supplements	Private Foundation	\$214,500	36
Shay, Neil F.	The effects of soy isoflavones on lipid and drug metabolism pathways	Private Foundation	\$52,000	24

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

Investigator(s)	Title	Sponsor	Dollars	Months
Department or Office: Chemical and Biomolecular Engineering				
McGinn, Paul J.	Combinatorial Development of Improved Complex Metal Hydrides for Hydrogen Storage	Department of Energy	\$199,776	36
Mukasyan, Alexander S.	High-temperature synthesis of inorganic materials using mechanically activated and mechanically alloyed precursors	Private Foundation	\$12,000	24
Zhu, Yingxi E.	CAREER: Water immersed polymer interfaces and the role of their interfacial properties on biolubrication	National Science Foundation	\$402,899	60
Department or Office: Chemistry and Biochemistry				
Goodson, Holly V.	Interactions between CLIP-170 and tubulin	National Institutes of Health	\$112,500	12
Hartland, Gregory V.	Effect of size, shape and crystal structure on the mechanical properties of nanoscale materials	National Science Foundation	\$387,451	36
Henderson, Kenneth W. Schneider, William F.	Development of a Synergistic Computational and Synthetic Approach Toward the Rational Design in MOF Materials	Corporate Funding	\$27,600	12
Joyce, David E.	The Protein C Pathway in Murine Septic Shock	Private Foundation	\$260,000	48

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

Investigator(s)	Title	Sponsor	Dollars	Months
Kuno, Masaru K.	CAREER: Disorder induced optical heterogeneity in solution based straight/branched nanowires	National Science Foundation	\$605,066	60
Kuno, Masaru K. Chang, Hsueh-Chia Jena, Debdeep	Detecting small numbers of pathogen in environmental samples	Corporate Funding	\$23,000	12
Peng, Jeffrey W.	Accounting for Molecular Flexibility in Receptor-Ligand Interaction	National Science Foundation	\$1,395,625	60
Sevov, Slavi C.	Nanorods of Silicon and Germanium with Well-Defined Shapes and Sizes	Department of Energy	\$338,773	36
Department or Office:	Civil Engineering and Geological Sciences			
Fein, Jeremy B. Burns, Peter C.	Direct Determination of the Thermodynamic Properties of Uranyl Minerals Important for the Performance of the Geological Repository at Yucca Mountain	Argonne National Laboratory	\$80,000	12
Kijewski-Correa, Tracy L.	CAREER: An Integrated Teaching and Research Paradigm for Structural Evaluation and Assessment of Civil Infrastructure Systems	National Science Foundation	\$450,994	60

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

Investigator(s)	Title	Sponsor	Dollars	Months
Vichit-Vadakan, Wilasa	CAREER: Repair of Fire-Damaged Concrete	National Science Foundation	\$466,475	60
Westerink, Joannes J.	Wave and circulation modeling on unstructured grids	Department of Navy	\$452,910	48
Woertz, Jennifer R.	CAREER: Nitrogen Sensing in Fungal Biofilms: Connecting Gene Expression to Macroscale Behavior	National Science Foundation	\$442,183	60
Department or Office:	Computer Science & Engineering			
Flynn, Patrick J. Bowyer, Kevin W.	CISE Research Resources: Instrumentation for Multidimensional Imaging and Applications	National Science Foundation	\$373,000	60
Poellabauer, Christian	CAREER: Judicious Resource Management in Wireless Service Sharing Environments	National Science Foundation	\$482,662	60
Thain, Douglas L.	CAREER: Piercing the Data Bottleneck with PINS: Processing in Storage	National Science Foundation	\$696,626	60
Department or Office:	Electrical Engineering			
Fay, Patrick J.	GaAsSb-based HBT's for W-band Amplifiers	Corporate Funding	\$197,922	24

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

Investigator(s)	Title	Sponsor	Dollars	Months
Fay, Patrick J.	InP-Based Sub-millimeter Wave Oscillators	Corporate Funding	\$22,426	6
Laneman, J. N.	Towards a Renaissance in Finite-Blocklength Information Theory	National Science Foundation	\$480,352	60
Maziar, Christine M.	ADVANCE Institutional Transformation Awards	Purdue University	\$618,325	72
Department or Office:	English			
Fox, Christopher O'Buachalla, Breandan	CIMNA: Catalogue of Irish Manuscripts in North America	National Endowment for the Humanities	\$330,545	24
Department or Office:	Institute for Latino Studies			
Hernandez, Edwin I.	Religion and Relationships Among Latinos in Urban America	University of Virginia	\$115,033	24
Department or Office:	Physics			
Aprahamian, Ani	Nuclear Structure and Nuclear Astrophysics	National Science Foundation	\$50,000	11
Eskildsen, Morten R.	CAREER: Non-Uniform Superconductivity and a Flying Circus of Physics	National Science Foundation	\$642,756	60
Department or Office:	Political Science			
Hui, Tin-bor V.	Toward a Multicultural Approach to the Liberal Peace	Private Foundation	\$25,882	2

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

Investigator(s)	Title	Sponsor	Dollars	Months
Department or Office:	Program of Liberal Studies			
Stapleford, Thomas A.	Science in the Public Square: Expert Knowledge and Democratic Life	National Science Foundation	\$429,794	60
Department or Office:	Psychology			
Borkowski, John G. Cummings, E. M. Hernandez, Edwin I.	Enhanced Marital Relationships and Parenting Practices in Latino Families	Health & Human Services	\$1,000,005	60
Gibson, Bradley S.	Visual Attention and the Semantics of Space	National Science Foundation	\$112,220	24
Radvansky, Gabriel A.	Processing Spatial Shifts in Virtual Reality	National Science Foundation	\$411,697	36
Department or Office:	Sociology			
Cardenas, Gilberto	National Latino Overweight and Obesity Education and Awareness Prevention Initiative	Health & Human Services	\$300,000	12

Awards and Proposal Summary

Centers and Institutes Report

07/01/2005 to 07/31/2005

Awards Received

Department or Office	No.	Amount
Center for Astrophysics	1	\$19,080
Center for Children and Families	1	\$1,662,590
Center for Flow Physics and Control	2	\$130,000
Environmental Research Center	1	\$8,655
Kroc Institute for International Peace Studies	1	\$45,000
Nano Science and Technology Center	2	\$1,325,000
Nuclear Structure Laboratory	1	\$2,000,000
Radiation Laboratory	2	\$550,000
South Bend Center for Medical Education	1	\$232,860
Walther Cancer Research Center	1	\$268,000
Total:	13	\$6,241,185

Proposals Submitted

Department or Office	No.	Amount
Center for Children and Families	1	\$1,000,005
Center for Environmental Science and Technology	1	\$27,600
Center for Flow Physics and Control	2	\$608,419
Center for Molecularly Engineered Materials	1	\$12,000
Center for Transgene Research	1	\$260,000
Environmental Research Center	1	\$684,646
Institute for Latino Studies	3	\$1,415,038
Interdisciplinary Center for the Study of Biocomplexity	1	\$112,500
Keough Institute for Irish Studies	1	\$330,545
Nano Science and Technology Center	2	\$220,348
Nuclear Structure Laboratory	1	\$50,000
Reilly Center for Science, Technology and Values	1	\$429,794
Total:	16	\$5,150,895

Awards and Proposal Summary

Centers and Institutes Report

07/01/2005 to 07/31/2005

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Department or Office	No.	Amount
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Total:	16	\$5,150,895

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

Investigator(s)	Title	Sponsor	Dollars	Award #
<u>Awards for Research</u>				
Department or Office:	Center for Astrophysics			
Bennett, David P. (Center or Institute)	High Resolution Follow-up Observations of the Microclensing Event OGLE	Space Telescope Science Institute	\$19,080	006558-001
Department or Office:	Center for Children and Families			
Borkowski, John G. Maxwell, Scott E. (Center or Institute)	Neglect in High-Risk Mothers	National Institutes of Health	\$1,662,590	006113-001
Department or Office:	Center for Flow Physics and Control			
Thomas, Flint O. Corke, Thomas C. (Center or Institute)	Plasma Fairings for Landing Gear Noise Reduction	National Aeronautics and Space Administration	\$70,000	006111-001
Jumper, Eric J. (Center or Institute)	Characterizations of Aero-Optic Effect on Airbourne, Free-Space Optical Communications	Corporate Funding	\$60,000	006547-001
Department or Office:	Environmental Research Center			
Francl, Karen E. (Center or Institute)	Herpetofaunal Distributions in Gogebic County, Michigan	Michigan Department of Natural Resources	\$8,655	006542-001
Department or Office:	Kroc Institute for International Peace Studies			
Lederach, John P. Darby, John (Center or Institute)	Monitoring and Learning from Best Practices in Southeast Asian Peacebuilding	U.S. Institute of Peace	\$45,000	006555-001
Department or Office:	Nano Science and Technology Center			
Fay, Patrick J. Seabaugh, Alan C. (Center or Institute)	NIRT: Extremely-Mismatched Materials for Advanced Nanodevices	National Science Foundation	\$1,300,000	006559-001

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

Centers and Institutes Report

Investigator(s)	Title	Sponsor	Dollars	Award #
Bernstein, Gary H. (Center or Institute)	Match Funding to the EBL System funded under DARPA/NAVY Grant N00014-04-1-0800	Corporate Funding	\$25,000	006541-001
Department or Office: Nuclear Structure Laboratory				
Wiescher, Michael C (Center or Institute)	Joint Institute for Nuclear Physics	National Science Foundation	\$2,000,000	006117-001
Department or Office: Radiation Laboratory				
Carmichael, Ian C. Feraudi, Guillermo J. Kamat, Prashant V. Madden, Keith P. LaVerne, Jay A. Guldi, Dirk M. Hug, Gordon L. Chipman, Daniel M. Tripathi, Gorakh Nath R. Bentley, John J. Pimblott, Simon M. Meisel, Dan Bartels, David M. (Center or Institute)	Radiation and Photochemistry in Condensed Phase	Department of Energy	\$150,000	006378-001

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

Investigator(s)	Title	Sponsor	Dollars	Award #
Carmichael, Ian C. Ferraudi, Guillermo J. Kamat, Prashant V. Madden, Keith P. LaVerne, Jay A. Guldi, Dirk M. Hug, Gordon L. Chipman, Daniel M. Tripathi, Gorakh Nath R. Bentley, John J. Pimblott, Simon M. Meisel, Dan Bartels, David M. (Center or Institute)	Radiation and Photochemistry in Condensed Phase	Department of Energy	\$400,000	006378-001
Department or Office:	South Bend Center for Medical Education			
McKee, Edward E. (Center or Institute)	Heart Mitochondrial Toxicity of Antiviral Nucleosides	I.U. School Medicine	\$232,860	005899-001
Department or Office:	Walther Cancer Research Center			
Taylor, Richard E. (Center or Institute)	Synthesis of Biologically Significant Cyclopropanes	National Science Foundation	\$268,000	006563-001

Proposals submitted during the period Jul-01-2005 to Jul-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			
Borkowski, John G.	Enhanced Marital Relationships and Parenting Practices in Latino Families	Health & Human Services	\$1,000,005	06010040
Cummings, E. M.				
Hernandez, Edwin I.				
Department or Office:	Center for Environmental Science and Technology			
Henderson, Kenneth W.	Development of a Synergistic Computational and Synthetic Approach Toward the Rational Design in MOF Materials	Corporate Funding	\$27,600	06010028
Schneider, William F.				
Department or Office:	Center for Flow Physics and Control			
Morris, Scott C.	CAREER: Pressure, Strain and Vorticity in Shear Flows	National Science Foundation	\$400,000	06010019
Jumper, Eric J.	Year 2 Aero-Optical Modeling and Validation for HEL Systems	Corporate Funding	\$208,419	06010035
Rennie, Robert M.				
Cavalieri, David				
Gordeyev, Stanislav V.				
Department or Office:	Center for Molecularly Engineered Materials			
Mukasyan, Alexander S.	High-temperature synthesis of inorganic materials using mechanically activated and mechanically alloyed precursors	Private Foundation	\$12,000	06010045
Department or Office:	Center for Transgene Research			
Joyce, David E.	The Protein C Pathway in Murine Septic Shock	Private Foundation	\$260,000	06010009

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

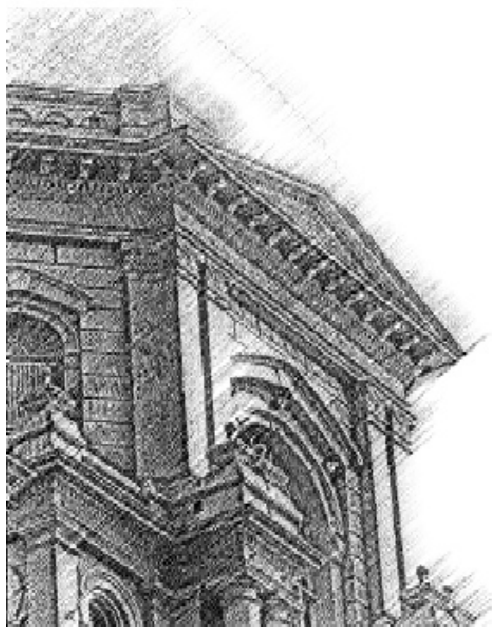
Investigator(s)	Title	Sponsor	Dollars	Proposal #
Department or Office: Environmental Research Center				
Boyd, Sunny K. Scheutz, Matthias J.	Computational Models for Neurochemical Control of Social Behavior	National Science Foundation	\$684,646	06010013
Department or Office: Institute for Latino Studies				
Cardenas, Gilberto	National Latino Overweight and Obesity Education and Awareness Prevention Initiative	Health & Human Services	\$300,000	06010008
Borkowski, John G. Cummings, E. M. Hernandez, Edwin I.	Enhanced Marital Relationships and Parenting Practices in Latino Families	Health & Human Services	\$1,000,005	06010040
Hernandez, Edwin I.	Religion and Relationships Among Latinos in Urban America	University of Virginia	\$115,033	06010021
Department or Office: Interdisciplinary Center for the Study of Biocomplexity				
Goodson, Holly V.	Interactions between CLIP-170 and tubulin	National Institutes of Health	\$112,500	06010002
Department or Office: Keough Institute for Irish Studies				
Fox, Christopher O'Buachalla, Breandan	CIMNA: Catalogue of Irish Manuscripts in North America	National Endowment for the Humanities	\$330,545	06010026
Department or Office: Nano Science and Technology Center				
Fay, Patrick J.	GaAsSb-based HBT's for W-band Amplifiers	Corporate Funding	\$197,922	06010011

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

Centers and Institutes Report

Investigator(s)	Title	Sponsor	Dollars	Proposal #
Fay, Patrick J.	InP-Based Sub-millimeter Wave Oscillators	Corporate Funding	\$22,426	06010012
Department or Office:	Nuclear Structure Laboratory			
Aprahamian, Ani	Nuclear Structure and Nuclear Astrophysics	National Science Foundation	\$50,000	06010043
Department or Office:	Reilly Center for Science, Technology and Values			
Stapleford, Thomas A.	Science in the Public Square: Expert Knowledge and Democratic Life	National Science Foundation	\$429,794	06010032

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