

## The University

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# **Faculty Notes**

#### University

#### Academic Apparel Rental

Measurements for academic apparel for the May 2005 Commencement Exercises will take place on Tuesday and Wednesday, April 5 and 6, ONLY from 10:00 a.m. to 7:30 p.m. at the Hammes Notre Dame bookstore in the Eck Center. The rental of a doctoral cap, gown, and hood is \$45. Faculty who received a Ph.D. or law degree from Notre Dame may rent the Notre Dame doctoral cap, gown, and hood. The rental fee is \$100. The rental of a cap, gown, and hood for the master's degree is \$42.

#### Honors

**Tonia Hap Murphy**, assistant professional specialist in the Dept. of Accountancy, was recently named staff editor of the *Journal of Legal Studies Education*.

Thomas L. Shaffer, the Short Professor of Law Emeritus, was appointed to two Indiana State Bar Association committees: Written Publications and Legal Ethics.

#### **Activities**

Bruce A. Bunker, professor of physics, sat on a National Synchrotron Light Source Beamline Review Panel evaluating x-ray beamlines at Brookhaven National Laboratory, Feb. 3–4.

Richard M. Economakis, associate professor of architecture, presented "From Medieval Borgo to Georgian Idyll: The Making of the Historic Town of Corfu in Greece" at the "Making Cities Livable" conference in Carmel, Calif., Feb. 17–20; and served as panel moderator, and exhibited the project "A Gateway to Seaside" that he produced for the Deupi Economakis Design Partnership. He delivered a version of the same paper to the Hellenic Cultural Society of the Greek Orthodox Church of St. Andrew, South Bend, on Feb. 27.

Thomas P. Fehlner, professor of chemistry and biochemistry, presented "Molecular QCA" at the Univ. of Rennes, France, March 7.

Kwan S. Kim, professor of economics and policy studies and Kellogg Institute fellow, presented "Global Poverty Gap" before the "World Affairs Council's Foreign Policy Lecture Series" in Grand Rapids, March 14.

Donald P. Kommers, the Robbie Professor of Political Science and concurrent professor of law, presented the Hesburgh Lecture on "Constitutional Visions of Marriage and Family" in Philadelphia, Oct. 27; and another Hesburgh Lecture on "Abortion and the Death Penalty in the Jurisprudence of the United States and Europe" in Jacksonville, Fla., March 2.

Marya Lieberman, associate professor of chemistry and biochemistry, presented the invited paper "DNA-Based Self-Assembling Circuit Board for Molecular Electronics" at the eighth "Molecular Scale Electronics Conference" in San Diego, Jan. 26.

Karen M. Morris, assistant professional specialist in chemistry and biochemistry, gave presentations and workshops on "Guided Inquiry and Research-Based Science Materials - Gr. K–12" for South Wells Community School Corporation, Poneto, Ind., March 7; and in Merrillville, March 14.

Rev. Ronald Nuzzi, director, ACE Leadership Program, gave the keynote presentation "Why Teachers Matter: Reflections on the Importance of Catholic Education" for teachers and principals in the Diocese of St. Augustine, Jacksonville, Fla, March 7.

Theresa Godwin Phelps, professor of law, presented "The Far Side of Revenge: New Modes of Victim/Survivor Storytelling" at the annual conference of the Association for the Study of Law, Culture, and the Humanities in Austin, Tex., March 12.

John P. Welle, professor of Romance languages and literatures, concurrent professor in the Dept. of Film, Television, and theatre, and Nanovic Institute fellow, gave the invited lecture "On the Set with the Diva: Pirandello and the Film Novel" at the Graduate Center of the City Univ. of New York, on March 8.

#### **Publications**

**J. Douglas Archer**, librarian, contributed the column "PATRIOT Act: Articles and Quotes," to the *IFRT Report*, No. 56 (spring).

Dinshaw Balsara, assistant professor of physics, published "High Order WENO Schemes: Investigations on Non-Uniform Convergence for MHD Riemann Problems" with M. Torrilhon, *Journal of Computational Physics* 201 (2004): 586–600; and "Amplification of Interstellar Magnetic Fields by Supernova-Driven Turbulence" with J.S. Kim, M. MacLow, and Grant J. Mathews, professor of physics and director, Center for Astrophysics, *The Astrophysical Journal* 617 (2004): 339–349.

Carlos A. Casanova, senior research associate, Maritain Center, published "Reflexiones sobre la justicia de los regimenes politicos" in Cuadernos Salmantinos de Filosofia 31 (Salamanca: Univ. Pontificia de Salamanca, 2004): 363–411.

Julia Douthwaite, assistant provost for International Studies and professor of French, published "Les sciences de l'homme au XVIIIe siecle: le parcours de la 'jeune fille sauvage de Champagne'," Pour L'histoire des sciences de l'homme, No. 27 (2004): 46–53.

John F. Gaski, associate professor of marketing, published "Efficacy of a Mail Survey Appeal for a Dissertation," *Perceptual and Motor Skills* 99, No. 3 (Dec.) 1295–1298; and, with **Michael J. Etzel**, professor of marketing, published "National Aggregate Consumer Sentiment toward Marketing: A Thirty-Year Retrospective and Analysis," *Journal of Consumer Research* 31, No. 4 (March): 859–867.

Alyssa Gillespie, the Notre Dame Assistant Professor of Russian and Nanovic Institute fellow, published a review of D. Greene's Reinventing Romantic Poetry: Russian Women Poets of the Mid-Nineteenth Century in Slavic Review 64, No. 1 (spring): 230–231.

Douglas C. Hall, associate professor of electrical engineering, published "Electrical Properties of InAIP Native Oxides for Metal-Oxide-Semiconductor Device Applications" with Y. Cao, J. Zhang; X. Li; Thomas H. Kosel, associate professor of electrical engineering; Patrick J. Fay, associate professor of electrical engineering; et al., Applied Physics Letters 86, No. 6 (2005): 062105.

Bei Hu, professor of mathematics, published "Blowup Behavior for a Nonlinear Parabolic Equation of Nondivergence Form" with J.-S. Guo, *Nonlinear Analysis: Theory, Methods and Applications* 61, No. 4 (2005): 577–590.

Lee Krajewski, the Daley Professor of Manufacturing Strategy, published *Operations Management: Processes and Value Chains*, seventh edition, with L. Ritzman, (Prentice Hall, 2005).

Christian Moevs, associate professor of Romance languages, published *The Metaphysics of Dante's Comedy* (Oxford Univ. Press, 2005); and "The Metaphysical Basis of Dante's Politics" in *Le culture di Dante: Acts of the Fourth International Dante Seminar*, ed. M.Picone, Theodore J. Cachey Jr., and M. Mesirca (Cesati, 2005): 215–241.

Emily Lynn Osborn, assistant professor of history, and Kellogg and Kroc Institutes fellow, published "'Rubber Fever': Commerce and French Colonial Rule in Upper Guinée, 1890–1913," *Journal of African History* 45, No. 3 (Nov.): 445–465.

Slavi C. Sevov, professor of chemistry and biochemistry, published "Analysis of the Effect of Spin-Orbit Coupling on the Electronic Structure and Excitation Spectrum of the Bi<sub>2</sub><sup>2</sup>- Anion in K-crypt)<sub>2</sub>Bi<sub>2</sub> on the Basis of Relativistic Electronic Structure" with D. Dai, et al., *Journal of Physical Chemistry* A 109 (2005): 1675–1683.

Mark A. Suckow, director and research associate professor in the Freimann Life Science Center, published "Use of Porcine Renal Capsule Matrix as a Full-Thickness Dermal Wound-Healing Material in Rats" with J.P. Hodde, W.R. Wolter, and M.C. Hiles, *Journal of Wound Care* 14 (2005): 135–140.

Andreas Wöhr, research assistant professor of physics, published "Level Structure of <sup>22</sup>Mg: Implications for the <sup>21</sup>Na( $\rho$ , $\gamma$ ,)<sup>22</sup>Mg Astrophysical Reaction Rate and for the <sup>22</sup>Mg Mass" with D. Seweryniak, et al., *Physical Review Letters* 94 (Jan. 28): 032501.

# Administrators' Notes

#### **Publications**

Alan S. Bigger, director of Building Services, published "Avoiding Lemons: Don't Let Your Purchasing Experience Go Sour" with L.B. Bigger, *Executive Housekeeping Today* 26, No. 3 (March): 6–8+

## Documentation

## Minutes of the 298th Graduate Council Meeting

November 9, 2004

Present: Jeffrey Kantor, Anthony Hyder, Donald Pope-Davis, Jack Pratt (for Patricia O'Hara), Mark Roche, Joseph Marino, William Nichols (for Carolyn Woo), Gay Dannelly (for Jennifer Younger), Hope Hollocher, Lionel Jensen, Thomas Fuja, Philip Bess, Igor Veretennikov, Sunny Boyd, Panos Antsaklis, Remie Constable, Tom Noble, John Young, Alex Himonas, Kathie Newman

Absent: Frank Incropera, Joseph Wawrykow, Richard Sheehan, Doris Bergen, Theodore Cachey, Michael Signer, Edward Maginn, Peter Kogge, Richard Taylor, Timothy Dale, Patricia Maurice, Benjamin Radcliff, Sarah MacMillen

Guests: Nathan Hatch, Provost; John Affleck-Graves, Executive Vice President and chair of the internal committee to review the Department of Music; Gregory Sterling, Associate Dean of the College of Arts and Letters and member of the internal review committee; John Cavadini, chair of the Department of Theology; Don Crafton, chair of the Department of Music; Michael

Driscoll, Assoc. Prof. of Theology and author of the proposal for a master's degree in sacred music; Craig Cramer, Prof. of Music; Alex Blachly, Prof. of Music; Mary Frandsen, Assoc. Prof. of Music; Cornelius Delaney, Prof. of Philosophy and member of the internal review committee

## 1. PROPOSAL FOR MASTER'S DEGREE IN SACRED MUSIC

Prof. Kantor opened the meeting by explaining why this extraordinary session of the Graduate Council was necessary. The proposal for the new degree in sacred music, which was approved by the Graduate Council last April, was remanded by the Academic Council to the Graduate Council because when the Graduate Council approved the proposal last spring, it was unaware that the graduate programs in the Department of Music were being terminated. The Academic Council wanted the Graduate Council to reconsider the proposal in light of this development.

Prof. Kantor introduced Provost Nathan Hatch, who discussed the decision to terminate the graduate programs in music. He said that in the spring of 2001, an external review of the Music Department concluded that there were deep, long-standing problems within the department. After many

unsuccessful attempts to allow the department to resolve the issues internally, the Graduate School conducted a review of the department's graduate programs. It recommended that, as of the spring of 2004, all graduate programs in the department should be suspended. The internal committee set up to review the department agreed, as did Prof. Hatch. He said that he was not prepared to re-open the issue of reinstating the graduate programs in the department.

Prof. Greg Sterling, noted that some concern was expressed in the Academic Council meeting that faculty in the department were not adequately consulted prior to the closure of the graduate programs. He distributed a calendar of all of the meetings that the review committee held with members of the department between November 2003 and April 2004. Prof. Affleck-Graves noted that there were about 10 meetings held with various faculty groups.

Prof. Newman asked how many of the six recommendations in the review committee's report had been implemented. Prof. Roche replied that most of the recommendations are being acted on. Prof. Affleck-Graves added that Crowley Hall needs a lot of work, which will require a lot of money. At the moment, small things are being done.

Prof. Kantor introduced Prof. Cavadini, who addressed the issue of housing the new program in the Theology Department. He said that this arrangement was not uncommon, and that given Notre Dame's reputation as a national leader in graduate liturgical studies, it made sense. The sacred music degree will be a professional degree linked to ministerial preparation, not unlike the MDiv program, and is not intended for students who want to go on to a PhD program. He said that the Association of Theological Schools, which accredits such programs, reviews each graduate program separately and publishes standards for music degrees housed in theology departments. Housing the program in a theology department, he said, is a well-recognized arrangement in theological education and well regulated by ATS.

Prof. Driscoll noted that in 1998, Prof. Roche approached the Music Department to see if it wanted the sacred music program. It did not. In 2001, then, musicians and liturgists began the discussions that ultimately led to the current proposal. He then addressed the nature of the program, calling attention to pp. 8-12 of the proposal, which provides a listing of the course requirements and the course offerings in both music and theology. The original proposal, he said, contained no course numbers for the music courses; the revised proposal does. The courses, he noted, are active and have been taught by the faculty interested in teaching in the sacred music program. The program does not require the addition of new faculty or new courses.

Prof. Crafton stated that the sacred music program would have a positive impact on the undergraduate music program. Because the music faculty will have more time available, he calculated that there would be an immediate increase of four to six undergraduate courses. An added advantage to undergraduates will be that advanced and honors students will have the opportunity to take graduate level classes available through the new program. He concluded that the program is a "win-win" situation for the Music Department and will further enhance the reputation of the Theology Department.

Prof. Roche explained that the structure of the program—with the exception of organ courses, which will be conducted one-on-one by Craig Cramer—allows students from other disciplines to participate, most notably students from the Medieval Institute. Investing in the sacred arts was one of the priorities of the College of Arts and Letters' strategic plan, he said, and he anticipates that a niche donor base will eventually allow the program to expand.

Prof. Newman asked if there was a mechanism in place to add music faculty. Prof. Roche responded that at this point there is more than enough faculty, but should there be an increase in graduate stipends, he felt that a second instructor in organ might be necessary. If that came to pass, he said, he would go to the donor supporting graduate stipends and request further funding.

Prof. Marino asked what an optimistic number of students would be. Prof. Driscoll replied that he hopes the program has sixteen students, four organ and four choral vocal students per year over any two-year period. Prof. Kantor noted that

there are presently four to five stipends allotted through Campus Ministry. Prof. Hatch commented that he didn't foresee stipends being taken away from any existing graduate programs.

Prof. Veretennikov wondered if practice instruments would be a problem with so many organ students. Prof. Cramer responded that due to time constraints, there is always a problem with practice instruments, but a plan is being put together to better serve liturgical and rehearsal purposes.

Prof. Antsaklis asked if other sacred art programs would be housed in the Theology Department. Prof. Roche responded that he doesn't anticipate any proposals for master's degrees in the sacred arts for the next ten years. Prof. Antsaklis asked why a joint program between music and theology couldn't be put together. Prof. Roche replied that the possibility of a joint program had been considered but that joint programs tend to suffer when two entities try to determine departmental priorities. Prof. Sterling commented that there was serious opposition in the Music Department to housing the program there and that it would be procedurally problematic. Prof. Cavadini interjected that the sacred music degree would be a professional degree oriented towards people who will be working for the Church in administrative settings. Housing it in the Theology Department he said, gives the degree its telos as a professional degree. Prof. Driscoll added that this is a growing field with a unique emphasis on both liturgy and music.

Prof. Kantor called for a motion to vote on the proposal. Prof. Roche offered a motion for approval of the proposal. Prof. Jensen seconded. The proposal was passed by a unanimous voice vote (of 20 voting members) and will be forwarded to the Academic Council for its approval.

Prof. Kantor adjourned the meeting at 3:50.

## Minutes of the 299th Graduate Council Meeting

December 1, 2004

Present: Jeffrey Kantor, Donald Pope-Davis, Anthony Hyder, Jack Pratt (representing Patricia O'Hara), Mark Roche, Joseph Marino, Carolyn Woo, Hope Hollocher, Edward Maginn, Peter Kogge, Igor Veretennikov, Sunny Boyd, Panos Antsaklis, Remie Constable, Thomas Noble, Richard Taylor, Kathie Newman, Sarah MacMillen

Absent: Frank Incropera, Jennifer Younger, Joseph Wawrykow, Lionel Jensen, Thomas Fuja, Doris Bergen, Theodore Cachey, Michael Signer, Philip Bess, Timothy Dale, Alex Himonas, Patricia Maurice, Benjamin Radcliff, John Young

I. APPROVAL OF THE MINUTES OF THE  $298^{\text{TH}}$  GRADUATE COUNCIL MEETING

Prof. Kantor invited a motion to approve the minutes from the November 9, 2004 Graduate Council meeting. The minutes were unanimously approved.

## II. POLICY STATEMENT FOR THE OFFICE OF STUDENTS WITH DISABILITIES

Prof. Kantor introduced Scott Howland from the Office of Students with Disabilities. Mr. Howland explained that there is no formal process in place to handle academic accommodations for students with disabilities. He hoped that the policy statement provided would articulate such a process. He was seeking an endorsement from the Graduate Council before sending the policy to the Academic Council for approval.

Prof. Kogge questioned the timing of procedures in the policy. He said that it should be the student's responsibility to ensure that the process is underway before the drop/add deadline and that the policy should state as much. He wondered if it would be reasonable to suggest that faculty be informed of a student's disability before the start of a semester, and asked if it would be better to institute a deadline of two weeks into the semester for alerting faculty of the possible need for accommodations. Mr. Howland said that deadlines were considered by the advisory group that formulated the policy but were deemed cumbersome for students. He said he would revisit this issue.

Prof. Newman voiced her concern that graduate programs are unique, and the policy doesn't really address the needs of graduate students. Mr. Howland said that those needs could be either incorporated into the existing policy or included in a separate policy.

Prof. Hollocher stated that the policy is very abstract and needs clarification on exactly what faculty need to do to accommodate a disabled student. Mr. Howland responded that accommodations are usually discussed with his office.

Prof. Kantor asked if accommodations for graduate students are generally made for course work or thesis/dissertation work. Mr. Howland answered that most of the requests for accommodations are made for exams.

Prof. Woo noted that the policy states that the completed "Arrangement for Reasonable Accommodations" form must be returned one week prior to implementation of an accommodation. She said that, should a request be denied, the appeal process would take much longer than one week, resulting in requests becoming unresolved matters.

Prof. Newman said that the existing policy was not broad enough. She suggested that the policy contain a section for accommodations, other than those made for courses. She was also concerned about the issue of retroactive accommodations. Prof. Taylor noted that there aren't enough steps in place before a denial reaches the dean's level. He suggested that if a request is denied, the student should work with the OSD to possibly modify the request and resubmit it to the instructor.

Prof. Antsaklis suggested that the policy contain different paragraphs for graduate and undergraduate students, or that there be separate documents for each.

Prof. Kantor suggested that another policy be drafted and brought back for the Council's review. Mr. Howland agreed and said that he would contact the members who commented today for further input. He said that his office was committed to putting a proper policy in place that all faculty could support.

## I. UPDATE ON THE TASK FORCE ON GRADUATE FINANCIAL AID

Prof. Kantor began by stating that the Provost appointed a task force that included several members of the Graduate Council, as well as members of the Development Office and others to look into graduate stipends. The task force is close to completing their report, he said. Topics for the task force included competitiveness of stipends, development strategies, a needs assessment for each college, and patterns of current funding.

According to Prof. Kantor, the major conclusion of the task force is that the Graduate School has lost its competitive position with regard to stipend support. In the humanities and social sciences, he said, we are \$3,000 to \$4,000 behind our peers. In the sciences and engineering we are closer to our peers but most of that money is coming in from external sources, which is jeopardizing future growth. He said the Graduate School currently provides about \$12M in stipend support with an additional \$8M coming from sources external to the University. The task force has determined, he said, that the overall need package is just over \$5M. The package includes: \$1.7M to bring existing stipends up to competitive levels; \$2M for new student stipends; \$800,000 in insurance costs and \$900,000 for preferred packages, i.e., Presidential fellowships. He said that these costs represent a 50% increase in support from where we are today. The sources of this funding include the new capital campaign (\$2M), the University operating budget (\$400K), and reallocation of the resources that come to the Graduate School, specifically F&A returns (\$2M). Prof. Kantor stated that it would probably take more than one year to reallocate funds.

Prof. Marino expressed concerns that using F&A funds would stunt the growth of research and that faculty members would be upset if there are no incentives in the new plan. Prof. Antsaklis stated that supporting graduate students would grow research programs. Prof. Marino agreed but had misgivings about using F&A funds. Prof. Kantor commented that the goal of advancing graduate education will require strategic decision-making to estimate overall needs and make the most of the resources available.

Prof. Roche voiced his support of the plan. He said that raising graduate stipends is the highest priority in the College of Arts and Letters where some departments are losing prospective students to lower-ranked programs. Prof. Marino agreed that there is a need for higher stipend support but was concerned about using F&A funds to support the plan. He suggested reallocating funds from lower ranked programs to higher ranked ones. Prof. Roche responded that there aren't enough programs available to remove funds from. For example, he said the Economics Department is a lower ranked program yet all top ranked universities have economics departments, which makes it impossible to shut it down. He agreed with Prof. Marino that the incentive structure of F&A return should stay in

Prof. Taylor stated that he feels \$4 million is a small amount and is only a starting point. He said that while there have been large increases in research funds coming into the University, there has been no increase in the Graduate School's operating budget and he would like to see a sharing of the responsibility through operating budget increases.

Prof. Kogge asked if the plan addresses inflation. He speculated that a 1% increase would require \$250,000 per year. Prof. Kantor replied that the plan is a first step to bringing stipend levels up to a more competitive level and that it will be a challenge keeping up with inflation. He said that we are on a growth trajectory that should keep pace with a 1% yearly increase. The task force report, he said, will suggest that stipend levels be adjusted annually for inflation.

Prof. Maginn commented that the money from the capital campaign will not be available for two to three years so it won't help in the short term. He asked where the short-term funds would come from. Prof. Kantor responded that the immediate challenge is to raise current stipend levels and that the only source of revenue he sees is from F&A. Beyond that, he said, is the need to increase the number of stipends and a \$40 million endowment will allow for the \$2 million needed to fund this.

Prof. Marino commented that he has been asked to use his college's F&A return to fund other projects around the University

while his capitalization budget doesn't meet his college's expectations in the coming years. Prof. Taylor noted that hiring new faculty with funds from the capitalization budget brings in the F&A. Prof. Kantor responded that growth in research dollars has been used to fund other needs of the University and that at the moment graduate student stipends are the primary need for those funds.

#### II. REPORT ON ATTRITION STUDY

Prof. Kantor introduced Peter Diffley, associate dean of the Graduate School who submitted a proposal to the Council of Graduate Schools to study attrition patterns and was awarded a \$116,000 grant in November. Prof. Diffley explained that because Notre Dame isn't one of the top 100 PhD producers, he teamed up with Purdue University to share data and increase the sample size of the study. There are many prestigious institutions participating in the study, he said, and the subsequent workshops and plenary sessions will be very important for networking purposes.

Prof. Diffley then presented departmental attrition statistics that served as the basis for the grant proposal. The basic conclusions from the study are as follows:

- •It is intuitive that if a department loses more students than it graduates, then something is wrong. High overall attrition (>50%), which occurred in a minority of Notre Dame and Purdue departments, appears to be a characteristic of individual departments and is not an unavoidable hazard of any one discipline.
- In a minority of programs a larger percentage of women quit their programs than men. This argues against sweeping genderbased reasons for this disparity.
- Foreign and US students of color who are in a distinct minority within their departments are more likely to quit their programs than students in the majority.
- Since 8 of 28 departments representing all colleges lost less than a third of their incoming classes between 1985 and 1996, an overall attrition rate of <33% is an achievable goal.
- The cost in time, money, and resentment increases with the time to attrition. Almost all of the Purdue departments and three Notre Dame departments had a majority

of their attrition occur within the first two years of enrollment. Therefore, having a majority of attrition occur within this time frame is an achievable goal.

- Most of the Purdue departments and half of the Notre Dame departments had late attrition rates <33%. Therefore, keeping the percentage of attrition cases that occur after three years of enrollment <33% is an achievable goal.
- The largest loss of investment occurs if students quit after having their dissertation topics approved. Half of Notre Dame departments and most Purdue departments have very low attrition percentages at this late stage. Therefore, keeping ABD attrition <10% is an achievable goal.

Prof. Diffley stated that the grant has four goals. The first is to link overall attrition and attrition patterns to university and departmental policies and procedures. The second is to conduct an on-line survey of graduate students entering Notre Dame and Purdue in 2005 and 2006 to measure changes in attitude over time. The third is to begin a peer-mentoring program especially among vulnerable sub-groups of students. The fourth is to promote a "careers for masters" program to help move floundering students out of their programs earlier and in a positive manner.

Prof. Kantor adjourned the meeting at 5:10 p.m.



#### **Awards and Proposal Summary**

02/01/2005 to 02/28/2005

#### **Awards Received**

Category	No.	Amount	
Research	28	\$6,148,227	
Total	28	\$6,148,227	

#### **Proposals Submitted**

Category	No.	Amount
Research	80	\$22,581,898
Instructional Programs	1	\$106,095
Total	81	\$22,687,993

## **February 2005 Cumulative summary**

#### **Awards Received**

		07.01.2002 - 02.28.2003		07.01.2003 - 02.29.2004		07.01.2004 - 02.28.2005	
Category		No.	Amount	No.	Amount	No.	Amount
Research		228	\$36,340,662	246	\$37,921,158	236	\$49,725,997
Facilities and Equipment							
Instructional Programs		10	\$1,333,710	8	\$1,166,443	2	\$44,000
Other Programs				1	\$62,500		
Service Programs							
	Total:	238	\$37,674,372	255	\$39,150,101	238	\$49,769,997
			Proposals Sub	omitted			
		07.01	.2002 - 02.28.2003	07.01	.2003 - 02.29.2004	07.0	1.2004 - 02.28.2005
Category		No.	Amount	No.	Amount	No.	Amount
Research		389	\$107,996,888	517	\$188,904,903	540	\$159,495,155
Facilities and Equipment							
Instructional Programs		7	\$3,253,080	3	\$219,545	11 -	\$2,622,656
Other Programs							•
Service Programs							
	Total:	396	\$111,249,968	520	\$189,124,448	551	\$162,117,811

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.

Investigat	or(s)	Title	Sponsor	Dollars	Months
Awards for Research					
Department or Office:	Aerospace and Med	hanical Engineering			
Mason, James J		Thermomechanical	National Science	\$8,500	36
Morris, Scott C.		Investigations of High Speed Machining of	Foundation		
		Aluminum			
•					
Department or Office:	Biological Sciences				
Belovsky, Gary E.		Lter Luquillo Experimental Forest	University of Puerto Rico	\$13,986	12
Feder, Jeffrey L.		The Biogeography of	National Science Foundation	\$152,764	36
		Sympatric Speciation in Rhagoletis	Foundation		
Ferdig, Michael T.		Genetic Study of	Tufts University School of	\$6,000	12
(Center or Institute)		Cryptosporidium	Veterinary Medicine		
		parvum			
Hager, Kristin M.		Analysis of Membrane	Private Foundation	\$50,000	12
(Center or Institute)		Trafficking Events in the Regulation of		-	
		Organelle			
		Biogenesis and Stability of			
	,	Apicomplexan			
		Parasites			
Johnson, Alan L.		Ovarian Follicle	National Science	\$161,000	36
(Center or Institute)		Selection Mediated by Release from Inhibitory			
·		MAP Kinase Signaling			
Suckow, Mark A.		Anti-Adhesive Tissue Scaffold	Corporate Funding	\$9,835	5
(Center or Institute)		Countries			
		DELLON: 's leterouther	National Octobra	404.005	10
Whaley, Michelle A.		REU Site in Integrative Cellular and Molecular		\$81,925	12
Boyd, Sunny K.		Biology		1	
Department or Office:	Chemistry and Biod	hemistry			
Baker, Brian M.		Physical Basis for T	National Institutes of Health	\$259,875	36
		Cell Receptor Binding and Activity	ı ı <del>c</del> allı		
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Investigat	or(s)	Title	Sponsor	Dollars	Months
Barkai, Eli		CAREER: Theoretical Aspects of Single Molecule Spectroscopy: Control, Tracking, and Unraveling Dynamical Events in the Condensed Phase:	National Science Foundation	\$100,000	60
Miller, Marvin J. Fehlner, Thomas P. Smith, Bradley D. Sevov, Slavi C. Henderson, Kenneth W.		Acquisition of a Single-Crystal X-Ray Diffractometer with a CCD Area Detector and a High-Quality Optical Microscope	National Science Foundation	\$211,139	36
Sevov, Slavi C.		Main-Group Deltahedral Clusters: Functionalization and Oligomerization by Design	National Science Foundation	\$120,000	12
Department or Office:	Computer Science	& Engineering			
Chandra, Surendar		CAREER: Scalable Self Managing Multimedia Storage	National Science Foundation	\$80,662	60
Izaguirre, Jesus A. Striegel, Aaron Peng, Jeffrey W.		Grid-Enabled Integration of Experimental Data and Simulations for Flexible Protein Docking	National Science Foundation	\$247,821	36
Department or Office: Fay, Patrick J. (Center or Institute)	Electrical Engineeri	ng  DARPA RIMS: Micro  TPV with High  Efficiency Photonic  Crystal Emitter	Corporate Funding	\$60,000	12
Fay, Patrick J. (Center or Institute)		GaAsSb-based HBT's for W-band Amplifiers	Corporate Funding	\$20,007	6

Investigat	or(s)	Title	Sponsor	Dollars	Months
Haenggi, Martin		CAREER: Modeling and Managing Uncertainty in Wireless Ad Hoc and Sensor Networks	National Science Foundation	\$64,131	12
Merz, James L. Mintairov, Alexander (Center or Institute)		Study of Optical Properties of Single InGaN Quantum Dots	North Atlantic Treaty Organization	\$19,444	24
Tabuada, Paulo		CAREER : Automated Synthesis of Embedded Control Software	National Science Foundation	\$80,000	12
Department or Office:	Institute for Latino S	tudies			
Ready, Timothy (Center or Institute)		Comparative Civic and Place Engagement in Three Latino Enclave Neighborhoods in Transition		\$126,848	23
Department or Office:	Office of Research				
Luttrell, Gregory N.		Indiana S4 Initiative Outreach Partnership	Indiana University Research and Technology Corporation	\$5,000	12
Department or Office:	Physics			·	
Wayne, Mitchell R Shephard, William D Hildreth, Michael D. Cason, Neal M		Research in Hadron Collider Physics	National Science Foundation	\$170,000	51
Department or Office:	Political Science				
Hero, Rodney E. (Center or Institute)		Latino Immigrants in the Midwest: Understanding Social Integration and Public Policy	Private Foundation	\$99,770	24

Investigator(s)		Title Sponsor		Dollars	Months
Department or Office:	Psychology				
Smith, David A.		Depression, Marital Discord, and Inter-Spousal Criticism	National Institutes of Health	\$74,250	10
Department or Office:	Radiation Laborato	ry			
Carmichael, Ian C. Ferraudi, Guillermo J. Kamat, Prashant V.		Radiation and Photochemistry in Condensed Phase	Department of Energy	\$3,650,000	29
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)					
LaVerne, Jay A. Pimblott, Simon M. (Center or Institute)		Hazardous and Corrosive Gas Production in the Radiolysis of Water/Organic	Department of Energy	\$200,270	24
		Mixtures in Model TRU Waste			
Department or Office:	Sociology				
Cardenas, Gilberto (Center or Institute)		Poetas y Pintores: Artists Conversing with Verse	National Endowment for the Arts	\$20,000 ·	24
Department or Office:	Theology				·
Blenkinsopp, Joseph		The Reception of the Book of Isaiah in Late Antiquity	Private Foundation	\$55,000	24

Investigator(s)	Title	Sponsor	Dollars	Months
Proposals for Research				
Department or Office:	Aerospace and Mechanical Engineeri	ng		
Atassi, Hafiz M.	Hydrodynamics and Acoustics of Rotor Blades in Nonuniform Inflow Conditions	Department of Navy	\$410,538	36
Bowling, Alan P.	Dynamic Loading in Cable-Driven Mechanisms	National Science Foundation	\$185,199	36
•	·			
Corke, Thomas C. Fay, Patrick J.	High-Bandwidth High-Resolution Plasma Sensor for Hypersonic Flow Measurements:	Corporate Funding	\$420,002	24
	Phase II Proposal			
Jumper, Eric J.	Delta Proposal - Directed Energy Beam Improvement Using Flow Excitation (DEBI-FX)	Corporate Funding	\$56,993	5
Mason, James J. Morris, Scott C.	Research Experience for Teachers (RET) Suppliment for High Speed Machining Research	National Science Foundation	\$8,500	5
Renaud, John E.	Simulation-based Design Optimization Under Uncertainty	National Science Foundation	\$280,865	36
Roeder, Ryan K. Niebur, Glen L.	Nanoparticle Contrast Agent for Micro-CT Imaging of Bone	National Institutes of Health	\$274,763	12

Investigator(s)	Title	Sponsor	Dollars	Months
Department or Office:	Anthropology	•		
Sheridan, Susan G.	Bioculteral Reconstruction of Urban Monastic Life in Byzantine Jerusalem	School of American Research	\$30,000	9
Department or Office:	Biological Sciences			
Adams, John H. Fraser, Malcolm J.	Functional Genomic Analysis of Malaria Parasites	National Institutes of Health	\$598,262	12
Belovsky, Gary E.	Contract to conduct laboratory and in situ experiments on brine shrimp	State of Utah	\$53,360	12
D'Souza-Schorey, Crislyn	Molecular Mechanisms of Cell Invasion	National Institutes of Health	\$325,000	12
Feder, Jeffrey L. Fuentes, Agustin Lamberti, Gary A. Lodge, David M. Besansky, Nora J.	Global Linkages Biology, Environment and Society (GLOBES)	National Science Foundation	\$3,387,561	60
Ferdig, Michael T.	Genetic Control of Cross-Resistances in Plasmoidium Falciparum	National Institutes of Health	\$334,125	12
Schorey, Jeffrey S.	M. avium GPLs in macrophage activation and virulence	National Institutes of Health	\$302,804	12

Investigator(s)	Title	Sponsor	Dollars	Months
Shay, Neil F.	Soy Isoflavones: Anti-diabetic and anti-oxidative Dietary Supplements	National Institutes of Health	\$380,500	12
Suckow, Mark A.	Subcontract with Indiana University School of Medicine	Indiana University School of Medicine-N.W. Center	\$104,264	12
Suckow, Mark A.	A Novel Method for Discovery of Genes Involved in Prostate Cancer	Department of Defense	\$112,469	18
Suckow, Mark A.	Development of the Treatment for Prostate Cancer by Vaccination with Tumor Stromal Antigens	U.S. Army Research Institute	\$534,287	36
Suckow, Mark A.	Comparative Study of Adhesiogenesis Inhibition in a Rat Cecal Model	Corporate Funding	\$9,835	12
Tenniswood, Martin	Differential Acetylation of p53 as the Basis for Novel Therapeutics for Prostate Cancer	Department of Defense	\$562,500	36
Tenniswood, Martin	Differential Acetylation of p53 by Histone Deacetylase Inhibitors Induce Differential Downstream Target Activation and Co-activator Complex Assembly	Department of Defense	\$99,900	36

Investigator(s)	Title	Sponsor	Dollars	Months
Vaughan, Kevin T.	Regulation of Cytoplasmic Dynein Targeting	National Institutes of Health	\$228,690	12
Department or Office:	Center for Pastoral Liturgy		405.000	40
Kroeker, Charlotte	New Music Resources for Worship	Calvin College	\$25,000	12
Kroeker, Charlotte	Production of Piano CD Recordings of Bach Sacred Works	Indiana Arts Commission	\$1,000	12
Department or Office:	Chemical and Biomolecular Engineeri	ing		
Brennecke, Joan F. Maginn, Edward J. Paolucci, Samuel	IGERT: Ionic Liquids for Sustainable Energy Applications	National Science Foundation	\$0	60
Stadtherr, Mark A. Sen, Mihir				
-				
Ostafin, Agnes E.	Role of CA2+ on the Tethers Between Erythrocyte Membrane Cytoskeleton	National Institutes of Health	\$203,658	12
Palmer, Andre F.	Polymersome Encapsulated Hemoglobin	National Institutes of Health	\$75,000	12
Palmer, Andre F.	Enhanced O2 Delivery to C3A Hepatocytes	National Institutes of Health	\$225,000	12
and the second s				

Investigator(s)	Title	Sponsor	Dollars	Months
Wolf, Eduardo E. Schneider, William F.	Theoretical and Experimental Studies of Metal-Metal Oxide Catalysts for the Preferential Oxidation of CO	National Science Foundation	\$433,465	36
Zhu, Yingxi E.	Acquisition of atomic force microscopy to combine with confocal scanning microscopy for research and student training in interfacial thin films	National Science Foundation	\$177,510	12
<b>Department or Office:</b> Baker, Brian M.	Chemistry and Biochemistry  Guided engineering of improved cancer vaccine candidates	National Institutes of Health	\$187,500	12
Castellino, Francis J.	Pathophysiologies Involving Hemostasis-related Genes	National Institutes of Health	\$1,775,337	12
Castellino, Francis J. Ploplis, Victoria A.	The Protein C Pathway in Acute and Chronic Asthma	National Institutes of Health	\$337,500	12
Castellino, Francis J.	Blood Coagulation Protein-Metal Ion-Lipid Interactions	National Institutes of Health	\$375,000	12
DuBois, Jennifer	Enzymatic Biodegradation of Chlorooxides	National Institutes of Health	\$75,000	12

Investigator(s	) Title	Sponsor	Dollars	Months
Hartland, Gregory V.	Highly Excited Metal Nanoparticles in Solution: Explosive Boiling and Non-Thermal Melting	Private Foundation	\$120,000	44
Kandel, S. A.	Structure and Dynamics of Surface-Adsorbed Fullerenes	Private Foundation	\$120,000	40
Krchnak, Viktor Miller, Marvin J.	Combinatorial Libraries of N-alkyl hydroxamates	National Institutes of Health	\$325,000	12
Serianni, Anthony S. Carmichael, Ian C.	NMR Studies of Biologically Important Oligosaccharides	National Institutes of Health	\$366,500	12
Smith, Bradley D.	Chemical Agents that Affect Biomembrane Function	National Institutes of Health	\$267,300	12
Taylor, Richard E.	Synthesis of Biologically Significant Cyclopropanes	National Institutes of Health	\$300,000	12
Vakulenko, Sergei	Aminoglycoside Resistance in Enterococci	National Institutes of Health	\$361,500	12
Department or Office:	Civil Engineering and Geological Scier	nces		
Jain, Jinesh C.	₹	Western Kentucky University	\$6,000	12

Investigator(s)	Title	Sponsor	Dollars	Months
Kareem, Ahsan Kijewski-Correa, Tracy L.	Full-Scale Performance Evaluation of Tall Buildings Under Winds	National Science Foundation	\$359,690	36
Kurama, Yahya C.	Supplement to CAREER Project	National Science Foundation	\$1,668	6
Nerenberg, Robert	Removal of Estrogenic Breakdown Products in Drinking Water by Microbial Degradation	Private Foundation	\$150,000	24
Nerenberg, Robert	Integrated Membrane Biofilm Reactor for Total Nitrogen Removal from Wastewater	University of New Hampshire	\$258,290	24
Silliman, Stephen E.	Collaborative Research in Benin: Opportunity for Undergraduate Engineering/Geoscience Students	National Science Foundation	\$33,400	12
Vichit-Vadakan, Wilasa	Summer Undergraduate Research Fellowship	National Institute Standards & Technology	\$5,400	3
Vichit-Vadakan, Wilasa	Strength Redevelopment of Fire-Exposed Concrete	National Science Foundation	\$182,442	36
Department or Office: Com Hu, Xiaobo Chen, Danny Z. Lieberman, Marya	puter Science & Engineering  Methods and Tools for Implementing  Computionally Interesting  Circuits in Molecular  QCA	National Science Foundation	\$496,934	36

Investigator(s)	) Title	Sponsor	Dollars	Months
Striegel, Aaron Thain, Douglas L. Freeland, Joseph C.	SIAS-ID: Scalable Inference of Attack Signatures for Intrusion Detection	National Science Foundation	\$772,054	36
Thain, Douglas L.	CT-ISG: Securing the Web and the Grid with Dynamic Identities	National Science Foundation	\$412,517 ·	36
Department or Office: Bernstein, Gary H.	Electrical Engineering  Quilt Packaging: A New Approach for	National Science Foundation	\$510,684	36
Snider, Gregory L. Fay, Patrick J.	Heterogeneous System Integration			
Fay, Patrick J.	SST: Focal Plane Array Using Monolithic Si-Based Square-Law for Inclement Weather Piloting & Security Screening	Ohio State University	\$225,000	36
Haenggi, Martin Laneman, J. N.	REU Supplement to Sensors: Theory and Practice of Sensor Network Architectures	National Science Foundation	\$6,000	12
Hall, Douglas C.	Low-loss High-Index-Contrast Compound Semiconductor Waveguides	National Science Foundation	\$411,399	36
Laneman, J. N.	Transformations of Wireless Communication Channels	National Science Foundation	\$304,260	36

Investigator(s)	Title	Sponsor	Dollars	Months
Lemmon, Michael D. Sauer, Ken D. Talley, Jeffrey W. Silliman, Stephen E.	SST: Imaging the Source Zone; an environmental-actuator network application	National Science Foundation	\$723,754	36
Merz, James L. Jena, Debdeep Mintairov, Alexander	Aquisition of a Femtosecond Streak Camera for Materials Research and Education	National Science Foundation	\$198,310	24
Seabaugh, Alan C.	Interband Tunnel Transistors for Low Power Electronics	National Science Foundation	\$406,963	36
Snider, Gregory L.	Fabrication of Silicon-Based Tunnel Junctions for Nanoelectronics	National Science Foundation	\$243,973	36
Tabuada, Paulo Haenggi, Martin	Sensors: Topology Control for Restricted Mobility Networks	National Science Foundation	\$374,978	36
Xing, Huili	Measurement of minority carrier diffusion length in InGaN by Kelvin Probe Force Microscopy	Oak Ridge Associated Universities	\$5,000	12
Department or Office: English Johnson-Roullier, Cyraina E. Richman, Karen E. Heller, Ben A.	Re-encountering the Americas: Ethnic Identities in New World Context	National Endowment for the Humanities	\$189,903	15

Investigator(s	S) Title	Sponsor	Dollars	Months
Maurer, Sara L.	Possessive Dispossessions: Ownership, Empire and National Feeling in the 19th-Century English an Irish Novel	University of California-Santa Barbara d	\$40,000	9
Rodriguez, Jaime J.	The Mexican War in United States Literature	University of California-Santa Cruz	\$40,000	9
Department or Office: Gregory, Brad S.	History Storming Heaven: Christianity in the Reformation Era	Private Foundation	\$30,000	12
Department or Office: Hernandez, Edwin I.	Institute for Latino Studies  Chicago Latino  Congregational Study	Private Foundation	\$15,000	14
Department or Office: Phelps, Teresa G.	Law School  Re-Membering: The Role of Personal Stories in Peacemaking and Nation Building		\$55,000	12
Department or Office: Eskildsen, Morten R. Kuno, Masaru K. Sevov, Slavi C. Jena, Debdeep	Physics  Acquisition of Transport Measurements System for Materials Research and Education	National Science Foundation	\$125,000	12
Eskildsen, Morten R.	Joint ND/Argonne graduate student RA (Ruobing Xie)	Argonne National Laboratory	\$27,720	12

Investigator(s)	Title	Sponsor	Dollars	Months
Hildreth, Michael D.	Dzero Run Ilb Project	Fermi National Laboratory	\$39,690	12
Ruggiero, Steven T.	Acquisition of Adiabatic Demagnetization Refrigerator	National Science Foundation	\$156,700	12
Department or Office: Psychological Psycholo	ogy			
Boker, Steven M.	Collaborative Research DHB: Coordinated motion and facial expression in dyadic conversation	National Science Foundation	\$402,618	36
Borkowski, John G. Maxwell, Scott E. Whitman, Thomas L.	Precursors of Retardation in Children of Teen Mothers	National Institutes of Health	\$291,000	12
Cummings, E. M.	Child Sleep Problems in the Context of Marital Conflict	Auburn University	\$68,492	12
Cummings, E. M.	Family Process, Emotional Security, and Child Adjustment	University of Rochester	\$337,628	12
<b>S</b>			<b></b>	
West, Robert L.	Aging and the control of attention	National Institutes of Health	\$182,500	12

Investigator(s)

Title

Sponsor

Dollars

Months

Department or Office:

Sociology

Fast, Larissa A.

Defining Dangerous:

U.S. Institute of Peace

\$40,244

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Appleby, Robert S.

Humanitarian Security and the Challenge to Humanitarian Action

**Proposals for Instructional Programs** 

Department or Office:

Political Science

Lopez, George A.

Terrorism and Peace as

National Endowment for the

\$106,095

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Ethical Dilemmas

Humanities

**Awards and Proposal Summary** 

Centers and Institutes Report

02/01/2005 to 02/28/2005

#### **Awards Received**

Department or Office	No.	Amount
Center for Tropical Disease Research & Training	2	\$56,000
Freimann Life Science Center	1	\$9,835
Institute for Latino Studies	3	\$246,618
Nano Science and Technology Center	3	\$99,451
Radiation Laboratory	2	\$3,850,270
Walther Cancer Research Center	1	\$161,000
Total:	12	\$4,423,174

#### **Proposals Submitted**

Department or Office	No.	Amount
Center for Children and Families	2	\$406,120
Center for Flow Physics and Control	3	\$887,533
Center for Molecularly Engineered Materials	1	\$203,658
Center for Transgene Research	3	\$2,487,837
Center for Tropical Disease Research & Training	3	\$1,235,191
Center for Zebrafish Research	1	\$228,690
Freimann Life Science Center	4	\$760,855
Institute for Church Life	2	\$26,000
Institute for Latino Studies	2	\$204,903
Kroc Institute for International Peace Studies	2	\$146,339
Nano Science and Technology Center	6	\$1,589,930
Walther Cancer Institute Chair I	1	\$300,000
Walther Cancer Research Center	1	\$325,000
Total:	31	\$8,802,056

## **Awards and Proposal Summary**

Centers and Institutes Report 07/01/2004 to 02/28/2005

#### **Awards Received**

Department or Office		No.	Amount
ACE Educational Outreach		1	\$65,600
Center for Applied Mathematics		1	\$302,729
Center for Astrophysics		3	\$155,000
Center for Children and Families		1	\$1,629,988
Center for Environmental Science and Technology		2	\$135,518
Center for Flow Physics and Control		11	\$601,578
Center for Molecularly Engineered Materials		2	\$391,763
Center for Transgene Research		3	\$158,625
Center for Tropical Disease Research & Training		7	\$4,436,176
Center for Zebrafish Research		2	\$9,576
Environmental Molecular Science Institute		1	\$1,000,000
Environmental Research Center		2	\$431,265
Freimann Life Science Center		. 5	\$28,371
Institute for Church Life		1	\$80,000
Institute for Educational Initiatives		2	\$85,500
Institute for Latino Studies		13	\$1,277,443
Interdisciplinary Center for the Study of Biocomplexity		1	\$160,160
Jacques Maritain Center		1	\$25,000
Kellogg Institute for International Studies		2	\$316,013
Kroc Institute for International Peace Studies		2	\$341,469
Nano Science and Technology Center		17	\$4,008,826
Nanovic Institute		1	\$121,927
Nuclear Structure Laboratory		2	\$2,055,080
Office of the Provost		1	\$3,000,000
Radiation Laboratory		4	\$7,240,270
South Bend Center for Medical Education		2	\$263,836
Walther Cancer Research Center		3	\$349,105
	Total:	93	\$28,670,818

#### **Proposals Submitted**

Department or Office	No.	Amount	
Center for Astrophysics	10	\$2,010,047	
Center for Children and Families	2	\$406,120	
Center for Flow Physics and Control	15	\$5,563,525	
Center for Microfluidics and Medical Diagnostics	3	\$774,774	

Research

## **Awards and Proposal Summary**

#### **Centers and Institutes Report**

#### 07/01/2004 to 02/28/2005

Department or Office	No.	Amount
Center for Molecularly Engineered Materials	4	\$1,461,813
Center for Social Concerns	1	\$20,000
Center for Transgene Research	12	\$4,183,437
Center for Tropical Disease Research & Training	14	\$11,925,802
Center for Zebrafish Research	6	\$1,383,815
Environmental Molecular Science Institute	1	\$197,225
Environmental Research Center	2	\$13,542
Freimann Life Science Center	8	\$771,206
Institute for Church Life	4	\$72,474
Institute for Educational Initiatives	5	\$211,704
Institute for Latino Studies	24	\$2,615,187
Kellogg Institute for International Studies	1	\$793,129
Keough Institute for Irish Studies	1	\$40,000
Kroc Institute for International Peace Studies	4	\$2,163,224
Nano Science and Technology Center	47	\$29,738,836
Nuclear Structure Laboratory	1	\$5,038,680
Radiation Laboratory	8	\$2,411,924
Reilly Center for Science, Technology and Values	1	\$37,500
Robinson Community Learning Center	2	\$299,947
Walther Cancer Institute Chair I	2	\$1,044,958
Walther Cancer Research Center	11	\$3,178,684
Total:	189	\$76,357,553

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#### **Centers and Institutes Report**

Award # Investigator(s) Title Dollars Sponsor **Awards for Research** Center for Tropical Disease Research & Training Department or Office: Analysis of Membrane Private Foundation \$50,000 005825-001 Hager, Kristin M. Trafficking Events in (Center or Institute) the Regulation of Organelle Biogenesis and Stability of Apicomplexan Parasites Tufts University School of \$6,000 006320-001 Ferdig, Michael T. Genetic Study of Veterinary Medicine Cryptosporidium (Center or Institute) parvum Freimann Life Science Center Department or Office: Anti-Adhesive Tissue Corporate Funding \$9,835 006215-001 Suckow, Mark A. Scaffold (Center or Institute) Institute for Latino Studies Department or Office: Latino Immigrants in Private Foundation \$99,770 006435-001 Hero, Rodney E. the Midwest: (Center or Institute) **Understanding Social** Integration and Public Policy Poetas y Pintores: National Endowment for \$20,000 006438-001 Cardenas, Gilberto Artists Conversing with the Arts (Center or Institute) Verse Comparative Civic and Florida International \$126,848 006434-001 Ready, Timothy Place Engagement in University (Center or Institute) Three Latino Enclave Neighborhoods in Transition Nano Science and Technology Center Department or Office: North Atlantic Treaty Study of Optical \$19,444 006446-001 Merz, James L. Properties of Single Organization Mintairov, Alexander InGaN Quantum Dots (Center or Institute) DARPA RIMS: Micro Corporate Funding \$60,000 006436-001 Fay, Patrick J. TPV with High (Center or Institute) Efficiency Photonic

Crystal Emitter

## Awards received during the period Feb-01-2005 to Feb-28-2005

#### **Centers and Institutes Report**

Investiga	ator(s)	Title	Sponsor	Dollars	Award #
Fay, Patrick J. (Center or Institute)		GaAsSb-based HBT's for W-band Amplifiers	Corporate Funding	\$20,007	006445-001
Department or Office:	Radiation Laborato	ry			
LaVerne, Jay A. Pimblott, Simon M. (Center or Institute)		Hazardous and Corrosive Gas Production in the Radiolysis of Water/Organic Mixtures in Model TRU Waste	Department of Energy	\$200,270	006181-001
Carmichael, lan C. Ferraudi, Guillermo J. Kamat, Prashant V.		Radiation and Photochemistry in Condensed Phase	Department of Energy	\$3,650,000	006378-001
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:	Walther Cancer Res	search Center			
Johnson, Alan L. (Center or Institute)		Ovarian Follicle Selection Mediated by	National Science Foundation	\$161,000	006431-001

Release from Inhibitory MAP Kinase Signaling

#### **Centers and Institutes Report**

Investigator(s) Title **Sponsor Dollars** Proposal # **Proposals for Research** Department or Office: Center for Children and Families Child Sleep Problems in Auburn University \$68,492 05080515 Cummings, E. M. the Context of Marital Conflict \$337,628 05080529 Family Process, University of Rochester Cummings, E. M. Emotional Security, and Child Adjustment Department or Office: Center for Flow Physics and Control \$410,538 05080488 Hydrodynamics and Department of Navy Atassi, Hafiz M. Acoustics of Rotor Blades in Nonuniform Inflow Conditions \$420,002 05080516 High-Bandwidth Corporate Funding Corke, Thomas C. High-Resolution Plasma Fay, Patrick J. Sensor for Hypersonic Flow Measurements: Phase II Proposal \$56,993 05080543 Delta Proposal - Directed Corporate Funding Jumper, Eric J. **Energy Beam** Improvement Using Flow Excitation (DEBI-FX) Center for Molecularly Engineered Materials Department or Office: Role of CA2+ on the National Institutes of Health \$203,658 05080483 Ostafin, Agnes E. Tethers Between Erythrocyte Membrane Cytoskeleton Center for Transgene Research Department or Office: The Protein C Pathway in National Institutes of Health \$337,500 05080526 Castellino, Francis J. Acute and Chronic Ploplis, Victoria A. Asthma

#### **Centers and Institutes Report**

Investigator(s)	Title	Sponsor	Dollars	Proposal #
Castellino, Francis J.	Pathophysiologies Involving Hemostasis-related Genes	National Institutes of Health	\$1,775,337	05080527
Castellino, Francis J.	Blood Coagulation Protein-Metal Ion-Lipid Interactions	National Institutes of Health	\$375,000	05080532
Department or Office:	Center for Tropical Disease Research	& Training		
Adams, John H. Fraser, Malcolm J.	Functional Genomic Analysis of Malaria Parasites	National Institutes of Health	\$598,262	05080479
Ferdig, Michael T.	Genetic Control of Cross-Resistances in Plasmoidium Falciparum	National Institutes of Health	\$334,125	05080484
Schorey, Jeffrey S.	M. avium GPLs in macrophage activation and virulence	National Institutes of Health	\$302,804	05080517
Department or Office:	Center for Zebrafish Research		•	
Vaughan, Kevin T.	Regulation of Cytoplasmic Dynein Targeting	National Institutes of Health	\$228,690	05080500
Donartment or Office	Freimann Life Science Center			
Department or Office:	Comparative Study of	Corporate Funding	<b>ቀ</b> ስ የሳር	05000407
Suckow, Mark A.	Adhesiogenesis Inhibition in a Rat Cecal Model		<b>\$9,835</b>	05080487

#### **Centers and Institutes Report**

Investigator(s)	Title	Sponsor	Dollars	Proposal #	
Suckow, Mark A.	Development of the Treatment for Prostate Cancer by Vaccination with Tumor Stromal Antigens	U.S. Army Research Institute	\$534,287	05080491	
Suckow, Mark A.	A Novel Method for Discovery of Genes Involved in Prostate Cancer	Department of Defense	\$112,469	05080508	
Suckow, Mark A.	Subcontract with Indiana University School of Medicine	Indiana University School of Medicine-N.W. Center	\$104,264	05080492	
Department or Office: Institute fo	r Church Life				
Kroeker, Charlotte	New Music Resources for Worship	· Calvin College	\$25,000	05080476	
Kroeker, Charlotte	Production of Piano CD Recordings of Bach Sacred Works	Indiana Arts Commission	\$1,000	05080501	
Department or Office: Institute for Latino Studies					
Johnson-Roullier, Cyraina E. Richman, Karen E. Heller, Ben A.	Re-encountering the Americas: Ethnic Identities in New World Context	National Endowment for the Humanities	\$189,903	05080550	
Hernandez, Edwin I.	Chicago Latino Congregational Study	Private Foundation		05080558	

#### **Centers and Institutes Report**

Investigator(s)	Title	Sponsor	Dollars	Proposal #
Department or Office:	Kroc Institute for International Peace	Studies		
Fast, Larissa A. Appleby, Robert S.	Defining Dangerous: Humanitarian Security and the Challenge to Humanitarian Action	U.S. Institute of Peace	· \$40,244	05080547
Department or Office:	Nano Science and Technology Cente	r	·	
Bernstein, Gary H. Snider, Gregory L. Fay, Patrick J.		National Science Foundation	\$510,684	05080493
Xing, Huili	Measurement of minority carrier diffusion length in InGaN by Kelvin Probe Force Microscopy	Oak Ridge Associated Universities	\$5,000	05080502
Merz, James L. Jena, Debdeep Mintairov, Alexander	Aquisition of a Femtosecond Streak Camera for Materials Research and Education	National Science Foundation	\$198,310	05080522
Fay, Patrick J.	SST: Focal Plane Array Using Monolithic Si-Based Square-Law for Inclement Weather Piloting & Security Screening	Ohio State University	\$225,000	05080548
Seabaugh, Alan C.	Interband Tunnel Transistors for Low Power Electronics	National Science Foundation	\$406,963	05080503

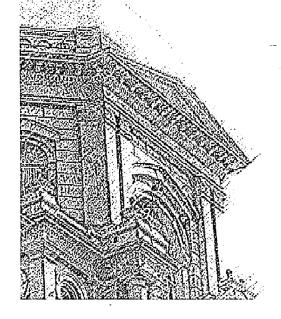
#### **Centers and Institutes Report**

**Dollars** Proposal # Investigator(s) Title Sponsor \$243,973 05080494 Fabrication of National Science Foundation Snider, Gregory L. Silicon-Based Tunnel Junctions for Nanoelectronics Walther Cancer Institute Chair I Department or Office: \$300,000 05080535 Synthesis of Biologically National Institutes of Health Taylor, Richard E. Significant Cyclopropanes Walther Cancer Research Center Department or Office: Molecular Mechanisms of National Institutes of Health \$325,000 05080507 D'Souza-Schorey, Crislyn Cell Invasion **Proposals for Instructional Programs** Kroc Institute for International Peace Studies Department or Office: \$106,095 05080556 Terrorism and Peace as National Endowment for the Lopez, George A.

Ethical Dilemmas

Humanities

# Notre Dame Report



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