Notre Dame Report

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MARCH 28, 2003
NUMBER 14
Academic Apparel Rental

Measurements for academic apparel for the May 2003 Commencement Exercises will take place on Tuesday and Wednesday, April 15 and 16, ONLY from 9:30 a.m. to 7:00 p.m., at the Hammes Notre Dame Bookstore in the Eck Center. The rental of a doctoral cap, gown, and hood is $40. 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 $92. The rental of a cap, gown, and hood for the master's degree is $40.

Please note that the listing of Grenville Clark Award Winners in issue 13 should have listed Peter Walshe and James and Mary Ann Roemer only once. Walshe won the award in 1979; the Roemers in 1980.

Activities

Feiwu Chen, research assistant in the Radiation Laboratory, presented "Cavity Construction in Reaction Field Theory for solvation," written with Daniel M. Chipman, professional specialist in the Radiation Laboratory, at the 43rd Sanibel Symposium, St. Augustine, Fla., Feb. 22 through March 1.

Publications

Honors

Meredith Gill, assistant professor of art history, was selected to be a fellow in residence at the National Humanities Center, North Carolina, for 2003–2004, finishing her book *Augustine and the Italian Renaissance* (Cambridge Univ. Press). This project is also supported by a fellowship from the National Endowment for the Humanities.

Ahsan Kareem, the Moran Professor of Civil Engineering, was named chair of the Engineering Mechanics Division of the American Society of Civil Engineers, the division responsible for technical activities in applied mechanics and other basic branches of knowledge forming the background and foundation of the civil engineering profession.

Mark Schurr, associate professor of anthropology, was invited to serve on Indiana’s Preservation Advisory Committee, which will develop the next five-year historic preservation plan for the state of Indiana.

Activities

Daniel M. Chipman, professional specialist in the Radiation Laboratory, presented “Hydrogen Bonding Contributions to Solvation Energies of Aqueous Anions” at the 43rd Sanibel Symposium, St. Augustine, Fla., Feb. 22 through March 1.

Patricia Clark, the Luce Assistant Professor of Biochemistry, presented “Hysteresis in the Folding/Unfolding of a Monomeric β-Sheet Protein” at the Biophysical Society annual meeting, San Francisco, March 3–5.

Lawrence S. Cunningham, the O’Brien Professor of Theology, presented an invited lecture “Reflections on the Psalms as Prayer” at the Center for Catholic-Jewish Studies of St. Leo Univ., Florida, March 2.

Guillermo J. Ferraudi, professional specialist in the Radiation Laboratory, presented “Photochemical and Thermal Redox Chemistry of Transition Metal Macrocyclic Complexes. Potential Applications to the Catalyzed Reduction of CO2 and Oxidation of SO2,” at the research collaboration /lecture/organizational meeting, INIFTA, Univ. of La Plata, Argentina, March 3.

Dirk M. Guldi, associate professional specialist in the Radiation Laboratory, presented “Charge Separation in Fullerene Nanostructures” at Indiana Univ. Northwest, Gary, March 12.

Eileen Kolman, dean of the First Year of Studies, was part of an invited panel on “Supporting the First-Year Advanced Education Student” at the Midwest Regional Meeting of The College Board, Chicago, Feb. 24.

Rev. John Allyn Melloh, S.M., coordinator of the Marten Program in Homiletics and Liturgics and professional specialist in theology, presented the keynote Lenten address “Lent/Easter: It’s all about Baptism!” at St. Paul’s Church, Valparaiso, March 2.


Hon. Kenneth F. Ripple, professor of law, presided at the 54th Annual Hale Moot Court Honors Competition at the Univ. of Southern California Law School, Feb. 28.

Steven Schmid, associate professor of aerospace and mechanical engineering, presented the invited lecture “An Advanced Friction Model for Use with the Finite Element Method” at the Univ. of Michigan, Feb. 20; and participated in a panel session titled “Collaborations in Medical Research” sponsored by the Indiana Health Industry Forum, Feb. 18.


Publications

Asma Afsaruddin, assistant professor of Arabic and fellow in the Kroc Institute, published the entries “Muhammad Ibn al-Qasim,” “Nagshbandiya,” and “Qadiriyya” in the *Encyclopedia of Modern Asia*, D. Levinson and K. Christensen, eds. (New


Linda Gutierrez, professional specialist in the College of Science, published “Thrombospondin 1—A Regulator of Adenoma Growth and Carcinoma Progression in the APC−/− Mouse Model” with Mark Suckow, director and research associate professor in the Freimann Life Science Center, J. Lawler, Victoria A. Ploplis, research professor of chemistry and biochemistry and associate director of the Keck Center for Transgene Research, and Francis J. Castellino, dean emeritus of Science and the Kleiderer-Pezold Professor of Chemistry and Biochemistry, *Carcinogenesis* 24 (2003): 199–207.


Timothy Matovina, associate professor of theology and director of the Cushwa Center, published “A Fundamental Gap” in *America* 188, No. 9 (March 17).


Walter Nugent, the Tackes Professor of History Emeritus, coedited with M. Ridge Going Places: Transportation Redefines the Twentieth-Century West, by A. Schwantes, and The Bad City in the Good War: San Francisco, Los Angeles, Oakland, and San Diego, by R.W. Lotchin, both of which are in the series The American West in the Twentieth Century (Indiana Univ. Press).


Kathleen Sprops Cummings, professional specialist and associate director of the Cushwa Center and concurrent assistant professor of history, published a review titled "Builders and Shakers" of Sisters: Catholic Nuns and the Making of America (Saint Martin's Press) by J.J. Fialka, in Commonweal (March 14).


Awards and Proposal Summary
02/01/2003 to 02/28/2003

Awards Received

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Proposals Submitted

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February 2003 Cumulative summary

Awards Received

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Proposals Submitted

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<td>$180,006,146</td>
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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

February 1, 2003, through February 28, 2003

Awards for Research

Aerospace and Mechanical Engineering

Bowling, Alan P.
CAREER: Agility in Legged Locomotion
National Science Foundation
$61,516 60 months

Renaud, John E. (Center or Institute)
Trust Region Meta-Model Management for the Design of a High Speed Supercavitating Vehicle
Department of Navy
$70,000 30 months

Biological Sciences

Boyd, Sunny K.
Contemporary Approaches to Endocrine Signaling
National Science Foundation
$11,160 12 months

Diffley, Peter
Beinecke Memorial Scholarship for Reanna A. Ursin
Private Funding
$3,750 61 months

Diffley, Peter
Beinecke Memorial Scholarship for Katherine Hennessey
Private Funding
$3,750 61 months

Diffley, Peter
Fellowship for James Rissler
Private Funding
$21,072 96 months

Diffley, Peter
Fellowship for Jonathan Lyon
Private Funding
$21,072 96 months

Diffley, Peter
Fellowship for Thomas Butler
Private Funding
$21,072 96 months

Diffley, Peter
Beinecke Memorial Scholarship for Katherine Hennessey
Private Funding
$6,100 48 months

Vaughan, Kevin T.
Visual Cell, Pigment Cell Interface, and Disk Turnover
Medical College of Wisconsin
$31,727 12 months

Whaley, Michelle A.
REU Site Program for Undergraduate Research in Cellular and Molecular Biology
National Science Foundation
$61,486 36 months
Chemistry and Biochemistry

Fehlner, Thomas P.
International: Novel Metallaborane Chemistry. A Combined Experimental and Theoretical Study
National Science Foundation
$22,590 36 months

Hartland, Gregory V.
Material Properties of Nanospheres and Nanorods Studied by Time-Resolved Spectroscopy
National Science Foundation
$125,400 36 months

Helquist, Paul (Center or Institute)
Asymmetric Synthesis of Nitrogen-Containing Organic Compounds
Corporate Funding
$20,000 36 months

Jacobs, Dennis C.
MURI Center for Materials Chemistry in the Space Environment
University of Chicago
$147,185 31 months

Rosen, Elliot D. (Center or Institute)
Coagulation Initiation In FVII Deficient Mice
National Institutes of Health
$284,875 12 months

Taylor, Richard E. (Center or Institute)
Design and Synthesis of Epothilone Analogs
Corporate Funding
$150,000 24 months

Civil Engineering and Geological Sciences

Burns, Peter C.
U(VI) Subsurface Chemistry in Hanford's Tank Farms
Private Funding
$80,000 12 months

Kareem, Ahsan
Characterization, Modeling, and Simulation of Transient Hurricane Loads
University of Florida
$55,000 6 months

Westerink, Joannes J.
Hydrodynamic Modeling of Flooding Events in Southern Louisiana
Louisiana State University
$77,415 48 months

The Classics

Afsaruddin, Asma
Striving in the Path of God: Discursive Traditions on Jihad and the Cult of Martyrdom
Private Funding
$29,640 12 months

Electrical Engineering

Antsaklis, Panos J.; Lemmon, Michael D.; Haeggi, Martin
Real-Time Reconfiguration of Networked Embedded Systems
Air Force Research Lab/ARPA
$438,630 36 months

Antsaklis, Panos J.; Lemmon, Michael D.
Supervisory Control of Networked Control Systems
Department of Army
$44,270 28 months

Porod, Wolfgang; Lent, Craig S.
Nanoelectronics
Arizona State University
$139,726 68 months

Freimann Animal Care Facility

Jain, Jinesh C.; Suckow, Mark A. (Center or Institute)
Calcification Potential of Biomaterials
Corporate Funding
$20,016 6 months

Kroc Institute for International Peace Studies

Appleby, Robert S.; Orozco-Abad, Ivan (Center or Institute)
Transition to Peace in Columbia: Between Justice and Reconciliation
Private Funding
$40,000 11 months

Physics

Barabási, Albert-Lászlo
The Topologic Properties of Metabolic Networks
National Institutes of Health
$452,740 24 months
Sapirstein, Jonathan R.
Weak and Electromagnetic Radiative Corrections in Atomic Physics
National Science Foundation
$41,776 48 months

**Political Science**

Hagopian, Frances; Schierling, Sharon K. (Center or Institute)
Kellogg Religion Initiative Workshop
Private Funding
$15,000 12 months

**Psychology**

Gondoli, Dawn M.
Parenting Stability and Change During Early Adolescence
National Institutes of Health
$74,250 12 months

**Theology**

Cavadini, John C. (Center or Institute)
Sustaining Excellence in Episcopal Ministry
Private Funding
$930,205 61 months

**Proposals Submitted**

February 1, 2003, through February 28, 2003

**Proposals for Research**

**Aerospace and Mechanical Engineering**

Bowling, Alan P.
Controller for Agility in Legged Locomotion
Oak Ridge Associated Universities
$5,000 7 months

Goodwine, John W.
Robust Nonlinear Cooperative Robotic Manipulation
Indiana Space Grant Consortium
$10,000 7 months

Jumper, Eric J.; Corke, Thomas C.
Development of Plasma-Based Actuators and Employment Techniques on Aerodynamic Surfaces
U.S. Air Force Academy
$70,000 12 months

Nelson, Robert C.
Study of Aircraft Wake Turbulence and Its Impact on Flight Safety
Indiana Space Grant Consortium
$5,000 12 months

Ovaert, Timothy C.; Renaud, John E.
Reliability-Based Design Optimization of Tailored Multi-Layer Coating Architectures
National Science Foundation
$311,817 36 months

Stanisic, Michael M.
Preliminary Analysis of an Advanced Humanoid Shoulder Complex
Indiana Space Grant Consortium
$10,000 12 months

**Anthropology**

Chesson, Meredith S.
Final Publication of Excavations at Tell el-Handaquq Jordan
Private Funding
$29,735 12 months

**Biological Sciences**

Collins, Frank H.
Malaria Control by Genetic Manipulation of Vectors
National Institutes of Health
$710,857 12 months

Collins, Frank H.
Cloning of Plasmodium Refractoriness Genes in *A. gambiae*
National Institutes of Health
$300,088 12 months

McDowell, Mary A.
The Role of Complement Receptor 3 in Leishmaniasis
Private Funding
$50,000 12 months

**Chemical Engineering**

Brennecke, Joan F.
Subcontract from: Environmentally Benign Quaternary Ammonium-Based Room Temperature Ionic Liquids with Predictable Melting Points
Wesleyan University
$121,028 36 months
McGinn, Paul J.
Combinatorial Development of Catalysts for Use in Diesel Soot Particulate Traps Employing Microwave Heat
Corporate Funding
$60,000 6 months

Ostafin, Agnes E.; Chang, Hsueh-Chia
Chemiluminescent Liposomes for the Detection of Lung Cancer
National Institutes of Health
$175,925 12 months

Palmer, Andre F.
REU Supplement: Engineering Artificial Cells
National Science Foundation
$13,800 3 months

Hartland, Gregory V.
Investigation of Size Dependent Properties of Metallic Nanoparticles
Private Funding
$16,000 24 months

Miller, Marvin J.
Centers of Excellence in Chemical Methodologies/Library Development
National Institutes of Health
$2,558,167 12 months

Kurama, Yahya C.
REU Supplement 2003/ CAREER: Seismic Behavior and Design of Non-Emulative Precast Concrete Buildings with Supplemental Passive Energy Dissipation
National Science Foundation
$10,000 12 months

Neal, Clive R.
Evolution of the Hawaiian Plume: Assessing the Roles of Different Source Components Over Time
National Science Foundation
$241,536 36 months

Computer Science and Engineering

Brockman, Jay B.
ITR Collaborative Research: Programming, Compilation, and Runtime Support for Processing-In-Memory Based Parallel Architectures
National Science Foundation
$765,650 36 months

Electrical Engineering

Bauer, Peter H.
Collaborative Research: Distributed Information Fusion Networks for Threat Detection and Assessment
National Science Foundation
$325,191 36 months

Laneman, J.N.
Source-Channel Diversity Methods for Wireless Communications
Oak Ridge Associated Universities
$5,000 12 months

Institute for Latino Studies

Brown-Gort, Allert R.; Lafield, Karen; Garcia, Alma C.
Integration and Return of Highly Skilled Forced Migrants to the United States: The Case of Colombia
Private Funding
$100,000 12 months

Mathematics

Alber, Mark S.; Maurice, Patricia A.; Madey, Gregory R.; Izaguirre, Jesus A.
E-Complexity: Scalable Data-Rich Multi-Scale Modeling for Biological Systems
Indiana University Bloomington
$880,000 48 months
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<th>Field</th>
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<th>Project Title</th>
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<td>Physics</td>
<td>Furdyna, Jacek K.</td>
<td>Spin-Based Photonics Via Electromagnetically-Induced Transparency</td>
<td>University of Oregon</td>
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<td>Ruggiero, Steven T.; Tanner, Carol E.</td>
<td>Tunnelling and Transport in Single Molecules</td>
<td>DARPA</td>
<td>$682,992</td>
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<td>Sustainable Development in a Global Economy: International Pressures, National Response</td>
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<td>12 months</td>
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<td>Research Training in Mental Retardation</td>
<td>National Institutes of Health</td>
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<td>Gondoli, Dawn M.</td>
<td>Parenting Stability and Change During Early Adolescence</td>
<td>National Institutes of Health</td>
<td>$74,250</td>
<td>12 months</td>
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<td>Smith, David A.</td>
<td>Depression, Marital Discord, and Inter-Spousal Criticism</td>
<td>National Institutes of Health</td>
<td>$74,250</td>
<td>12 months</td>
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<td>Radiation Laboratory</td>
<td>LaVerne, Jay A.; Pimblott, Simon M.</td>
<td>Hazardous and Corrosive Gas Production in the Radiolysis of Water/Organic Mixtures in Model TRU Waste</td>
<td>Department of Energy</td>
<td>$691,730</td>
<td>36 months</td>
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<td>Sociology</td>
<td>Halton, Eugene W.</td>
<td>How has a Chinese Village become Catholic? Local Culture and the Inculturation of Catholicism in Northern China</td>
<td>National Science Foundation</td>
<td>$7,480</td>
<td>12 months</td>
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<td>LeClere, Felicia B.</td>
<td>Past Socioeconomic Status/Position (SES) and Income Dynamics in Studies of Black/White Disparities in Low Birth Weight (LBW)</td>
<td>University of California, San Francisco</td>
<td>$73,779</td>
<td>12 months</td>
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<td>Welch, Michael R.; McVeigh, Rory M.</td>
<td>Structural Determinants of Hate Crime Reporting: A County-Level Approach for Identifying Under-Reporting of Bias Crimes</td>
<td>National Institute of Justice</td>
<td>$35,475</td>
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<td>Catholicism in U.S. History</td>
<td>National Endowment for the Humanities</td>
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### Awards and Proposal Summary
#### Centers and Institutes Report
**02/01/2003 to 02/28/2003**

#### Awards Received

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<td>Center for Flow Physics and Control</td>
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<td>$70,000</td>
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<tr>
<td>Center for Orphan Drug Development</td>
<td>1</td>
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<tr>
<td>Center for Transgene Research</td>
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<td>Freimann Life Science Center</td>
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<td>Institute for Church Life</td>
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<td>Kellogg Institute for International Studies</td>
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<td>Kroc Institute for International Peace Studies</td>
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<td>Walther Cancer Research Center</td>
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#### Proposals Submitted

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<td>Center for Flow Physics and Control</td>
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<tr>
<td>Center for Molecularly Engineered Materials</td>
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<tr>
<td>Center for Tropical Disease Research &amp; Training</td>
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<td>Cushwa Center for American Catholicism</td>
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<td>Institute for Latino Studies</td>
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<td>$100,000</td>
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<td>Kellogg Institute for International Studies</td>
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<td>Laboratory for Social Research</td>
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<td>Radiation Laboratory</td>
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### Awards and Proposal Summary
#### Centers and Institutes Report
**07/01/2002 to 02/28/2003**

#### Awards Received

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<td>Alliance for Catholic Education</td>
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<td>Center for Astrophysics</td>
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<td>Center for Flow Physics and Control</td>
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<td>Kellogg Institute for International Studies</td>
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<tr>
<td>Kroc Institute for International Peace Studies</td>
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## Proposals Submitted

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<tr>
<th>Department or Office</th>
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<td>Center for Astrophysics</td>
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<td>Center for Flow Physics and Control</td>
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<td>Center for Molecularly Engineered Materials</td>
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<td>Center for Transgene Research</td>
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## Awards Received

**February 1, 2003, through February 28, 2003**

### Awards for Research

#### Center for Flow Physics and Control
- **Trust Region Meta-Model Management for the Design of a High Speed Supercavitating Vehicle**
  - Department of Navy
  - $70,000
  - 30 months

#### Center for Orphan Drug Development
- **Asymmetric Synthesis of Nitrogen-Containing Organic Compounds**
  - Corporate Funding
  - $20,000
  - 36 months

#### Center for Transgene Research
- **Coagulation Initiation In FVII Deficient Mice**
  - National Institutes of Health
  - $284,875
  - 12 months

### Freimann Life Science Center
- **Calcification Potential of Biomaterials**
  - Corporate Funding
  - $20,016
  - 6 months

### Institute for Church Life
- **Sustaining Excellence in Episcopal Ministry**
  - Private Funding
  - $930,205
  - 61 months

### Kellogg Institute for International Studies
- **Transition to Peace in Columbia: Between Justice and Reconciliation**
  - Private Funding
  - $15,000
  - 12 months

### Kroc Institute for International Peace Studies
- **Kroc Religion Initiative Workshop**
  - Private Funding
  - $40,000
  - 11 months
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<th>Walther Cancer Research Center</th>
<th>Institute for Latino Studies</th>
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<tr>
<td>Design and Synthesis of Epothilone Analogs</td>
<td>Integration and Return of Highly Skilled Forced Migrants to the United States: The Case of Colombia</td>
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<td>Corporate Funding</td>
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**Proposals Submitted**

February 1, 2003, through February 28, 2003

**Proposals for Research**

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<th>Center for Flow Physics and Control</th>
<th>Kellogg Institute for International Studies</th>
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<tr>
<td>U.S. Air Force Academy</td>
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<tr>
<td>$70,000</td>
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<td>12 months</td>
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**Center for Molecularly Engineered Materials**

Combinatorial Development of Catalysts for Use in Diesel Soot Particulate Traps Employing Microwave Heat

Corporate Funding

$60,000

6 months

REU Supplement: Engineering Artificial Cells

National Science Foundation

$13,800

3 months

**Center for Tropical Disease Research and Training**

The Role of Complement Receptor 3 in Leishmaniasis

Private Funding

$50,000

12 months

Cloning of Plasmodium Refractoriness Genes in *A. gambiae*

National Institutes of Health

$300,088

12 months

Malaria Control by Genetic Manipulation of Vectors

National Institutes of Health

$710,857

12 months

**Cushwa Center for American Catholicism**

Catholicism in U.S. History

National Endowment for the Humanities

$120,628

15 months

**Laboratory for Social Research**

Past Socioeconomic Status/Position (SES) and Income Dynamics in Studies of Black/White Disparities in Low Birth Weight (LBW)

University of California, San Francisco

$73,779

12 months

**Radiation Laboratory**

Hazardous and Corrosive Gas Production in the Radiolysis of Water/Organic Mixtures in Model TRU Waste

Department of Energy

$691,730

36 months