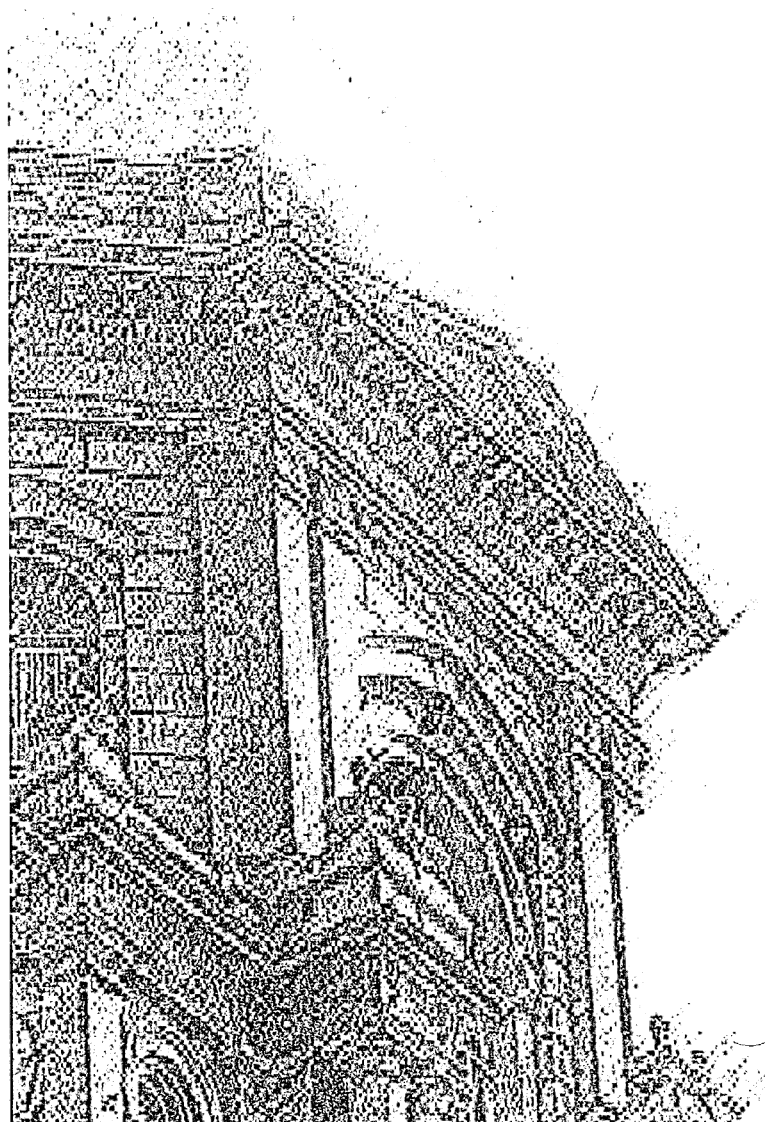


# Notre Dame Report



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FEBRUARY 28, 2003

N U M B E R 1 2

# Faculty Notes

## Honors

**Mary R. D'Angelo**, associate professor of theology, was elected to the editorial board of the *Catholic Biblical Quarterly*.

**Michael Lykoudis**, chair and professor of architecture, was appointed to the General Services Administration committee of peer evaluators for public works.

**Anthony R. Michel**, Freimann Professor Emeritus and McCloskey Dean of Engineering Emeritus, was selected associate editor of book reviews of the *IEEE Transactions on Automatic Control*.

**Wolfgang Porod**, Freimann Professor of Electrical Engineering and director, Center for Nano Science and Technology, was invited to join the NanoEngineering Advisory Council of the International Engineering Consortium.

## Activities

**Joseph P. Bauer**, professor of law, was a featured speaker in a national tele-seminar presented Jan. 27, by the American Bar Association's Section of Antitrust Law on "Navigating the Robinson-Patman Act: A Map for the Antitrust Counselor."

**Maureen Boulton**, professor of Romance languages and Medieval Institute fellow, presented an invited paper titled "*La 'Bible' perméable d'Hermann de Valenciennes*" at the International Colloquium "*Mobilité de l'oeuvre et jointures: Du manuscrit au texte médiéval*" at the Univ. of Limoges, France, Nov. 21-23; and presented a paper titled "Courtly Women, Holy Books" at the annual convention of the Modern Languages Association of America, New York, Dec. 27-30.

**Mary R. D'Angelo**, associate professor of theology, presented "Early Christian Familial Regrouping and the Social Politics of Rome: Romans 16 and the Liber-tini Portraits" at the Society of Biblical Literature annual meeting, Toronto, in November; and "Eusebeia: Roman Imperial Family Values and the Sexual Politics of 4 Maccabees and 1 Timothy" at the Catholic Biblical Association annual meeting, in August.

**William G. Dwyer**, Hank Professor of Mathematics, presented "Gross-Hopkins Duality and Poincare Duality" at the Midwest Topology Conference, Purdue Univ., on Feb. 1; and an invited lecture titled "Gorenstein Objects in Algebra and Topology" in a commutative algebra workshop, Mathematical Sciences Research Institute, Berkeley, Feb. 3.

**Theresa Ghilarducci**, associate professor of economics, director of the Higgins Labor Research Center, and Nanovic, Kroc, and Kellow fellow, presented "How 401(k)s Destabilize the Macro Economy and Affect Women and Men's Retirement Decisions" with S. Hermes, and "Employer Pension Contributions and 401(k)s, with **Wei Sun**, research associate, Latino Studies, at the American Economics Association annual meetings in Washington, D.C., on Jan. 3; and presented a paper at the conference "Understanding Pension Fund Corporate Engagement in a Global Arena," Oxford Univ., Nov. 24-26.

**Vittorio Hösle**, Kimball Professor of Arts and Letters, professor of German, concurrent professor of philosophy, concurrent professor of political science, and Nanovic fellow, presented "Gadamer, Davidson, and the Need for an Objective-idealist Hermeneutics" and "The Role of the Classics in Education" at the Institute of Philosophy of the Univ. of Vienna in December; "The Three Paradigms of Interpreting Plato" at the Univ. of Heidelberg in January; "Globalization and U.S.-American Hegemony" at the German-American Institute in Heidelberg in January; and "Gadamer, Davidson, and the Need for an Objective-idealist Hermeneutics" at the *Scuola di Heidelberg* in January.

**Anthony R. Michel**, Freimann Professor Emeritus and McCloskey Dean of Engineering Emeritus, chaired a session titled "Lyapunov Stability and Non-linear Systems"; presented, with **Yang Sun**, visiting associate professor of physics, the paper titled "Partial Stability of General Dynamical Systems under Arbitrary Initial z-perturbations"; and presented, with G. Zhai, "Improving Closed-loop Stability of Second-order LTI Systems by Hybrid Static Output Feedback" and "On Practical Stability of Switched Systems," all at the 41st IEEE Conference on Decision and Control, Las Vegas, in December.

**Wolfgang Porod**, Freimann Professor of Electrical Engineering and director, Center for Nano Science and Technology, represented the Center for Nano Science and Technology at the Nanotechnology Information Exchange, which was part of a joint meeting between the Electrical and Computer Engineering Department Heads Association and the International Engineering Consortium, San Jose, Jan. 27-28.

**Mark W. Roche**, O'Shaughnessy Dean and Joyce Professor of German Language and Literature, lectured on "Religion and Intellectuals" at the College of Charleston, South Carolina, Feb. 2.

**Alan Seabaugh**, professor of electrical engineering, presented "Refractory Metallization for InAs-based Transistors" with coauthors **Patrick Fay**, assistant professor of electrical engineering, S. Sutar, Y. Wakchuaire, B. Wu, A. Brown, C. Yi, and D. Chow, at the 6.1 Angstrom Workshop, South Padre Island, Tex., Jan. 14.

**Thomas L. Shaffer**, Short Professor of Law Emeritus, gave the keynote address "Lawyers as Prophets" at the "Religious Values and Poverty Law: Clients, Lawyers, and Communities" at Fordham Univ., New York, Jan. 31.

**Gordon D. Wishon**, chief information officer, associate vice president, and associate provost, was part of a panel discussing "Open Networks vs. 'Secure' Central IT vs. Departmental" in the Wireless Security Session at the Net@EDU annual meeting in Tempe, Feb. 3; and cochaired the Security Task Force meeting in Tempe, on Feb. 4.

## Publications

**Asma Afsaruddin**, assistant professor of Arabic and Kroc Institute fellow, published "Garden" in the *Encyclopedia of the Qur'an* 2, J. MacAuliffe, et al., eds. (Leiden: E.J. Brill, 2002): 282-287; "Muslim Responses to America's 'New' War," *Journal of South Asian and Middle Eastern Studies* 26 (2002): 17-26; and "The Role of Islam in Inter-Faith Dialogue," *Bulletin of the Association of Muslim Social Scientists* 3 (2002): 13-14.

**J. Douglas Archer**, librarian, authored "Reference Tools for Intellectual Freedom: Quotations and Anthologies,"

[Part 3] *Intellectual Freedom Round Table Report, 2003* (American Library Association, 2003): 50-51, [www.nd.edu/~jarcher/ifrt/tools.html](http://www.nd.edu/~jarcher/ifrt/tools.html).

**Rev. Thomas E. Blantz, C.S.C.**, professor of history, had an article "Father Haas and the Minneapolis Truckers' Strike of 1934" republished in *The North Star State*, A.J. Aby, ed. (St. Paul: Minnesota Historical Society Press, 2002): 302-305.

**Maureen Boulton**, professor of Romance languages and Medieval Institute fellow, published "*Nous deffens de feu, ... de pestilence, de guerres*: Christine de Pizan's Religious Works" in the collection *Christine de Pizan: A Casebook*, B.K. Altmann and D.L. McGrady, eds. (New York and London: Routledge, 2003): 215-228.

**Mary R. D'Angelo**, associate professor of theology, published "Gender Refusers in the Early Christian Mission: Gal 3: 28 as an Interpretation of Gen 1:27b" in *Interpretation and (Early) Christian Identity: Essays in Honor of Rowan A. Greer*, C.A. Bobertz and D. Brakke, eds. (Notre Dame: Univ. of Notre Dame Press, 2002): 149-173; and "The ANHP Question in Luke-Acts: Imperial Masculinity and the Deployment of Women in the Early Second Century" in *A Feminist Companion to Luke-Acts*, A.J. Levine, ed. (Sheffield: Sheffield Academic Press, 2002): 44-69.

**Denis A. Goulet**, O'Neill Professor Emeritus in Education for Justice, Department of Economics, published "*Desarrollo Humano*" in *Glosario Para una Sociedad Intercultural*, J. Conill, ed. (Valencia, Spain: Bancaja, 2002): 104-114.

**Dirk M. Guldi**, associate professional specialist in the Radiation Laboratory, published "The Small Reorganization Energy of Fullerenes" with S. Fukuzumi in *Fullerenes: From Synthesis to Optoelectronic Properties*, Dirk M. Guldi and N. Martin, eds. (Boston: Kluwer Academic Publishers, 2002): 237-265.

**Kevin Hart**, professor of English, published a review of P. Kane's *Downed lands* in *Verse* 19, Nos. 1 and 2 (2002): 220-223.

**Vittorio Hösle**, Kimball Professor of Arts and Letters, professor of German, concurrent professor of philosophy, concurrent professor of political sci-

ence, and Nanovic fellow, published *Philosophie und Öffentlichkeit* (Wuerzburg: Koenigshausen und Neumann, 2003).

**Maxwell Johnson**, professor of theology, published a review of A.J. Doval's *Cyril of Jerusalem: The Authorship of the Mystagogic Catecheses*, Patristic Monograph Series 17 (Washington, D.C.: CUA Press, 2001) in *Worship* 77, No. 1 (2003): 90-91.

**David M. Lodge**, professor of biological sciences and Kroc Institute fellow, published (with C.S. Kolar) "Ecological Predictions and Risk Assessment for Alien Fishes in North America" in *Science* 298 (Nov. 8): 1233-1236.

**Paul McEwan**, adjunct instructor in film, television, and theatre, published "Cultural Studies as a Hidden Discipline" in the *International Journal of Cultural Studies* 5, No. 4 (December): 427-437.

**Ralph M. McInerney**, Grace Professor of Medieval Studies, director of the Maritain Center, and professor of philosophy, published "*Philosophandum in Fide*," in *Faith and the Life of the Intellect* (Catholic Univ. of America Press, 2003): 231-242.

**Gerald McKenny**, associate professor of Christian ethics, co-edited *The Ethical: Blackwell Readings in Continental Philosophy* (Malden, Mass: Blackwell Publishers, 2003): 224 pp., a collection of original essays; wrote "Religion and Gene Therapy" in *A Companion to Genethics: Blackwell Companions to Philosophy* 21; and cowrote "Ethical Considerations in the Integration of Religion and Psychotherapy," published in *Psychiatric Clinics of North America*.

**Anthony R. Michel**, Freimann Professor Emeritus and McCloskey Dean of Engineering Emeritus, published "Improving Closed-loop Stability of Second-order LTI Systems by Hybrid Static Output Feedback" (2792-2797) with G. Zhai, S. Takai, and X. Xu; "Partial Stability of General Dynamical Systems under Arbitrary Initial z-perturbations" (2663-2668) with **Yang Sun**, visiting associate professor of physics; and "On Practical Stability of Switched Systems" (3488-3493) with G. Zhai, each in the *Proceedings of the 41st IEEE Conference on Decision and Control, Las Vegas*, in December. He also

published "Partial Stability and Boundedness of General Dynamical Systems on Metric Spaces" with A.P. Molchanov and Yang Sun, in *Nonlinear Analysis* 52 (2003): 1295-1316.

**Marvin J. Miller**, chairperson and Clark Professor of Chemistry and Biochemistry, published "Enantioselective Synthesis of  $\alpha$ -Amino Acids from N-Tosyloxy  $\beta$ -Lactams Derived from  $\beta$ -Keto Esters, *Journal of Organic Chemistry* 68 (2003): 27-34.

**Nathan D. Mitchell**, professional specialist and associate director in the Center for Pastoral Liturgy and concurrent associate professional specialist in the Department of Theology, published "Cult, Cultus" at 139-140; "Eucharistic Theologies, 1: Historical" at 199-202; "Rite, Ritual" at 407-410; "Sacrament, 1: Historical" at 413-414; "Secularization and Worship" at 427-429; and "Sign, Symbol" at 438-440 in *The New Westminster Dictionary of Liturgy and Worship*, **Rev. Paul Bradshaw**, professor of theology, ed. (Louisville/London: Westminster John Knox Press, 2002).

**Layna Mosley**, assistant professor of political science, published *Global Capital and National Governments* (New York: Cambridge Univ. Press, 2003).

**Al Neiman**, professional specialist in philosophy and Institute for Educational Initiatives fellow, published (with J. Garrison) "Pragmatism and Education" in *The Blackwell Guide to the Philosophy of Education*, N. Blake, P. Smeyers, R. Smith, and P. Standish, ed., (Maulden Mass.: Blackwell Publishing, 2003): 21-37.

**Liviu Nicolaescu**, associate professor of mathematics, published the monograph "The Reidemeister Torsion of 3-Manifolds," *deGruyter Studies in Mathematics* 30 (2003).

**Refugio I. Rochin**, visiting fellow in the Institute for Latino Studies, published "California's Latino Legacy" in *Heritage Matters* (Dec): 19, the magazine of the National Park Service, U.S. Department of the Interior, also at [www.cr.nps.gov.crdi](http://www.cr.nps.gov.crdi).

**Gretchen Reydam-Schils**, associate professor in the Program of Liberal Studies, edited *Plato's Timaeus as Cultural Icon* (Notre Dame: Univ. of Notre Dame Press, 2002): 365 pp.

**Slavi C. Sevoy**, professor of chemistry and biochemistry, published (with F. Gascoin) "Synthesis and Characterization of Transition-metal Zintl Phases:  $K_{10}NbInAs_6$  and  $K_9Nb_2As_6$ " in the *Journal of Inorganic Chemistry* 42 (2003): 904-907.

**Robert P. Vecchio**, Schurz Professor of Management, published "Leadership and Gender Advantage" in *Leadership Quarterly* 13 (2002): 643-671.

**Henry Weinfield**, associate professor in the Program of Liberal Studies, published "'These Beauteous Forms': 'Tintern Abbey' and the Post-Enlightenment Religious Crisis," *Religion and the Arts* 6, No. 3 (2002): 257-290.

# Administrators' Notes

## Activities

**Iris Outlaw**, director of Multicultural Student Programs and Services, copresented "Teaching Diversity: Making It Work for You" at the 2003 Hawaii International Conference on Arts and Humanities, Honolulu, Jan. 12-15.

# Documentation

## James A. Burns, C.S.C., Graduate School Award

Nominations are requested for the James A. Burns, C.S.C., Graduate School Award given annually to a faculty member for distinction in graduate teaching or other exemplary contributions to graduate education. Contributions can be in any or all of the following areas: building or developing a graduate program, teaching quality graduate courses, excellence as an adviser or thesis director, and excellence in service as a director of graduate studies or in any other similar position. This honor will be presented at the President's dinner for the faculty in May, and the recipient will receive a citation and cash prize.

The nomination packet should include a minimum of four letters of support (two from students and two from faculty) but no more than six, and a copy of the nominee's CV. All documentation should be sent to the department chair, who will forward the complete packet to the Graduate School by Friday, March 7, 2003.

The first Notre Dame President with an advanced degree, a doctorate from the Catholic University of America, Father Burns was the leading reformer of Catholic education in this country in the first quarter of the 20th century. One of his most significant contributions was to raise academic standards by recruiting faculty with doctoral degrees.

### **James A. Burns, C.S.C., Graduate School Award Winners Since 1990**

1989-1990	Rev. Ernan McMullin
1990-1991	Lawrence Marsh
1991-1992	Wilhelm Stoll
1992-1993	Scott Maxwell
1993-1994	Joan Aldous
	Francis J. Castellino
1994-1995	Robert C. Johansen
	Kwang-Tzu Yang
1995-1996	Jeanne D. Day
1996-1997	Arvind Varma
1997-1998	David Legee
	Thomas Mueller
1998-1999	Gail Bederman
1999-2000	Katherine O'Brien O'Keeffe
2000-2001	Thomas Nowak
2001-2002	Cindy Bergeman

## Research Achievement Award

The Research Achievement Award is awarded annually to honor a distinguished Notre Dame faculty member who has made significant contributions to scholarship in his or her discipline and to the research and education goals of the University.

The deans of each of the colleges may nominate two full-time faculty members, currently active in research and teaching. In addition to a copy of the nominee's résumé, each nomination should include a two-page letter that addresses the selection criteria:

- Evidence of the nominee's commitment to his or her profession and efforts to further the University's research and scholarship mission.
- The nominee's past research accomplishments and future research potential.
- Demonstration of universal recognition as a research leader.

The vice president for Graduate Studies and Research will appoint a committee to review the nominations. The committee will include one member from each of the colleges and will make recommendations to the vice president for Graduate Studies and Research, who will select the winner.

The award will consist of a plaque and a \$10,000 award placed in a discretionary research account for the recipient's use. The winner will be also be recognized in the Commencement program and at the President's faculty dinner.

Nominations must be received by the vice president for Graduate Studies and Research, 416 Main Building, no later than March 7, 2003.

### **Research Achievement Award Winners**

2000-2001	Arvind Varma
2001-2002	Eugene Ulrich

## Faculty Award Nominations Sought

Established in the 1927-28 academic year by the Alumni Association, the Faculty Award singles out that faculty member who, in the opinion of his or her colleagues, has contributed outstanding service to the University of Notre Dame. Each year a selection committee, composed of prior winners and representing the colleges and the Law School, studies the recommendations submitted by former recipients of this award, the deans, and individual faculty members, and selects a winner.

Nominations must be received by Nathan Hatch, provost, 300 Main Building, no later than March 7, 2003.

### Faculty Award Winners Since 1960

1959-1960	Otto Bird
1960-1961	John Frederick
1961-1962	Milton Burton
1962-1963	Stephen Kertes
1963-1964	Raymond Gutschick
1964-1965	Matthew Fitzsimons
1965-1966	Bernard D. Cullity
1966-1967	John Magee
1967-1968	Rev. Charles E. Sheedy, C.S.C.
1968-1969	Bernard Waldman
1969-1970	James Massey
1970-1971	Thomas Stritch
1971-1972	Ernest Sandeen
1972-1973	Rev. Ernan McMullin
1973-1974	Robert E. Rodes Jr.
1974-1975	Herbert E. Sim
1975-1976	Ronald Weber
1976-1977	Walter Miller
1977-1978	J. Philip Gleason
1978-1979	K.-T. Yang
1979-1980	Frederick J. Crosson
1980-1981	Jeremiah P. Freeman
1981-1982	Morris Pollard
1982-1983	James Kohn
1983-1984	John Malone
1984-1985	Rudy Bottei
1985-1986	Rev. David Burrell, C.S.C.
1986-1987	Paul Weinstein
1987-1988	Ray Powell
1988-1989	Robert A. Leader
1989-1990	Edward J. Murphy
1990-1991	Eugene Henry
1991-1992	George B. Craig Jr.

1992-1993	Lee Tavis
1993-1994	Sonia Gernes
1994-1995	Ralph McInerney
1995-1996	Carol Ann Mooney
1996-1997	William B. Berry
1997-1998	George S. Howard
1998-1999	Frank Reilly
1999-2000	John Borkowski
2000-2001	Yusaku Furuhashi
2001-2002	Jean Porter

## Reinhold Niebuhr Award Nominations Sought

Rev. Theodore M. Hesburgh, C.S.C., and Chancellor Willy Brandt of West Germany were the first recipients of Reinhold Niebuhr awards sponsored by friends of the Protestant theologian and author. Receiving this award in September 1972, at ceremonies at Union Theological Seminary in New York City, Father Hesburgh announced the establishment of a Reinhold Niebuhr Award at the University of Notre Dame. This award is made annually to a student, faculty member, or administrator whose life and writings promote or exemplify the area of social justice in modern life. The initial award to Father Hesburgh was \$5,000. This he turned over to the Notre Dame endowment to underwrite an annual cash award of \$250 for the winner of this campus honor. The selection committee includes representatives from the colleges and the Law School, Campus Ministry, Center for Social Concerns, rectors, Ladies of Notre Dame, and the student body. All members of the Notre Dame community are invited to submit recommendations for this award to Nathan Hatch, provost, 300 Main Building, prior to March 7, 2003.

### Reinhold Niebuhr Award Winners

1973	Msgr. John J. Egan
1974	CILA (Community for the International Lay Apostolate)
1975	George N. Shuster
1976	Rev. Louis Putz, C.S.C.
1977	Mr. and Mrs. Arthur Quigley
1978	Thomas F. Broden
1979	Rev. William Toohey, C.S.C.
1980	Rev. Don McNeill, C.S.C.
1981	Charles K. Wilber
1982	Kenneth and Penny Jameson
1983	Julian Pleasants
1984	John W. Houck and Oliver F. Williams, C.S.C.
1985	James Sterba

1986	John H. Yoder
1987	Stephen Worland
1988	Denis Goulet
1989	Sharon Lynn O'Brien
1990	John J. Gilligan
1991	Thomas and Nancy Shaffer
1992	Patrick E. Murphy
1993	John Borkowski
1994	Bernard Doering
1995	Rev. Richard McCormick, S.J.
1996	Rev. William M. Lewers, C.S.C.
1997	Rev. Joseph D. Ross, C.S.C.
1998	Lee Tavis
1999	Robert E. and Jeanne Rodes
2000	Kathleen Maas Weigert
2001	Dinah Shelton and R. Scott Appleby
2002	Rev. Patrick Gaffney, C.S.C.

## Grenville Clark Award Nominations Sought

On October 20, 1978, Father Hesburgh was one of three recipients of the Grenville Clark Prize, an award given every three years by the Grenville Clark Fund at Dartmouth College. Following the procedure established when he won the Reinhold Niebuhr Award in 1972, Father Hesburgh donated the \$5,000 Clark stipend to the Notre Dame endowment to underwrite a cash prize of \$250 to be awarded each year. This award is made to a faculty member, administrator, or student whose volunteer activities serve to advance the cause of peace and human rights to which Grenville Clark devoted his extraordinary life of public service. The selection committee includes representatives from the colleges and Law School, Campus Ministry, Center for Social Concerns, rectors, Ladies of Notre Dame, and the student body. All members of the Notre Dame community are invited to submit recommendations for this award to Nathan Hatch, provost, 300 Main Building, prior to March 7, 2003.

### Grenville Clark Award Winners

1977	Peter Walshe
1978	James and Mary Ann Roemer
1981	Sr. Judith Ann Beattie, C.S.C.
1982	Kenneth W. Milani
1983	Peggy Roach
1984	The Notre Dame Legal Aid and Defender Association
1985	Cecil and Mary Mast
1986	Rev. Robert F. Griffin, C.S.C.



1987	Conrad Kellenberg
1988	D'Arcy Chisholm and David Link
1989	Lloyd and Shelly Ketchum Kevin and Kathy Misiewicz
1990	Peter Morgan and Sr. Anne Giarrante, O.S.F.
1991	Kathleen Maas Weigert and Dolores Tantoco-Stauder
1992	Rev. H. Thomas McDermott, C.S.C.
1993	Michael and Christine Etzel
1994	Bro. Bonaventure Scully, C.F.X.
1995	Eugene J. McClory
1996	Jennifer A. Morehead Matthew Fitzgerald
1997	Thomas V. Merluzzi
1998	Jerry and Marge Marley
1999	Teresa Phelps
2000	Dave Kirkner
2001	Roger Jacobs
2002	Stephen Silliman

## Foik Award Nominations Sought

The Rev. Paul J. Foik Award Committee invites nominees for the award, which is given annually to a library faculty member who has contributed significantly to library service to the Notre Dame community or to the library profession through personal scholarship or involvement in professional associations. The award is named for the Holy Cross priest who served as director of Notre Dame's library from 1912 to 1924 and was a leading figure in the library profession in the first quarter of the 20th century. It is among those announced at the President's faculty dinner in May. Previous winners, beginning with the first award in 1991, include Maureen Gleason, Robert Havlik, Joseph Huebner, Rafael Tarrago, Janis Johnston, Charlotte Ames, Dwight King Jr., Stephen Hayes, Katharina Blackstead, Margaret Porter, Lucy Salisbury Payne, and Laura Anderson Bayard.

All members of the University Libraries' and Law Library faculty with two or more years' service are eligible. Please send letters of nomination to the Reverend Paul J. Foik Award Committee, c/o Melodie Eiteljorge, 221 Hesburgh Library, by March 7, 2003. Such letters should include reasons for considering the nominee for this award.

## Faculty Board on Athletics

### Meeting of December 5, 2002

**Members present:** Prof. Fernand Dutille (chair); Prof. Matthew Barrett; Prof. Harvey Bender; Prof. William Berry; Ms. Emily Bienko; Prof. John Borkowski; Mr. Patrick Holmes; Prof. Stephen Fallon; Prof. Umesh Garg; (Rev.) Mark Poorman, C.S.C.; Prof. Katherine Spiess; Prof. John Weber; and Dr. Kevin White.

**Guests present:** Mr. William Scholl, associate athletics director; and Mr. Michael Karwoski, assistant athletics director for compliance.

**Observers Present:** Ms. Sandy Barbour and Mr. Bernard Muir (both of the Department of Athletics); and Ms. Mary Hendriksen (recorder).

1. **Call to order and prayer:** The chair called the meeting to order at 4:20 p.m. Father Poorman led the group in prayer.

2. **Minutes of the previous meeting:** Prof. Berry moved the approval of the minutes of the meeting of November 11, 2002. Prof. Weber seconded. The motion carried unanimously.

3. **Announcements:** The chair announced that he had approved the team schedule for rowing (including a competition scheduled for the spring-semester study days, as had been specifically approved by the Board on October 14, 2002). The chair announced approval of a site change for softball: the doubleheader against Western Michigan has been moved from Notre Dame to Kalamazoo, Michigan. This change carries no class-miss implications.

The chair announced that he had approved the following team captains, all of whom met University criteria: Brandon Lunke (men's golf); and Kelly McCardell, Danielle Shearer and Elizabeth Knight (women's lacrosse).

The chair announced that Father Malloy had approved the drug-testing policy recommended to him by the Board at its previous meeting. Testing under the policy has already begun. Dr. Cullinan will report to the Board on this matter at its next meeting. The chair added for the record that, through an e-mail vote, the Board had elected Prof. Umesh Garg

to represent it on the standing committee created by the new drug-testing policy.

In light of the Board's concern for the University's class-miss policy for student-athletes, the chair informed the group that on November 26, 2002, the Academic Council had rescinded its action of last spring changing all Monday-Wednesday course sequences to Wednesday-Friday ones. The rescission reportedly followed a "firestorm" of protest from faculty members. The issue has now been sent to a Council subcommittee.

4. **Baseball Schedule:** The chair brought to the Board his concern that over the last several years insufficient attention had been paid to the University guideline regarding scheduling of competition during the last week of class. That guideline provides: "Competition necessary due to conference schedules or NCAA championships is permitted. Limited non-conference competition is also permitted; every effort must be made, however, to play at home, and overnight travel is discouraged. Proposals for non-conference competition must be discussed, prior to scheduling, with the departmental administrator responsible for that sport." To be sure, the chair continued, the guideline is anything but clear. Does the "last week of class" include intervening week-ends? What is "limited" non-conference competition? If a team already has games scheduled during that week due to conference requirements, may it still avail itself of the "limited non-conference" clause? Does the provision for approval by the departmental administrator imply that the administrator, and not the Board, implements this provision? The 2002-03 baseball schedule provides an occasion to address the meaning of the University guideline. That schedule much resembles those of previous years, which called for four or five games during that last week, three of them being conference games played during the intervening week-end. The chair made clear that he did not wish to put this year's schedule at risk, but rather to address the matter for the benefit of future years. To do this, he invited the administrator for baseball, Mr. William Scholl, to speak to the Board.



Mr. Scholl reiterated that typically three games are played during the Saturday and Sunday of that last week of class. This coming spring, on Tuesday of that week, we will compete in a joint "fund-raiser" in Grand Rapids against the University of Michigan. Of course, the game provides us with competition against a quality opponent from a quality conference, thus helping us to secure NCAA post-season attention. Finding a mutually acceptable date for this game, however, proves very difficult. The team will leave Notre Dame at 4:30 p.m. on game day and return at midnight. Baseball head coach Paul Mainieri has always offered any players so minded to stay at home for that game; occasionally players take him up on the offer. Coach Mainieri and the team pay close attention to academics. The baseball team may well have no one on academic probation this year, and its team GPA has been in the 2.9 to 3.1 range. We could try to move the game, but that will be very difficult. The team has traveled to Grand Rapids for this game over many years, and the arrangement has worked well. Prof. Barrett: What is the justification for the game against the University of Oakland, also typically scheduled during the final week of class? Mr. Scholl: The baseball team must schedule 56 games in order to be competitive. At the end of the year, opportunities for competition become sparse. Also, these games keep our players in shape. We must remember that baseball reflects a philosophy of playing games rather than holding practice sessions. Prof. Barrett: Is it realistic to expect student-athletes to opt out of games? It happens, Mr. Scholl replied, though, given the competitiveness of our players, a student-athlete would probably have to be in pretty bad academic shape to do it. Prof. Barrett asked whether such scheduling decisions by the Board should be made on a team-by-team basis, as opposed to using one rule for all sports. Prof. Bender stressed the importance of having rules in place while being sensitive to the idiosyncratic needs of various sports. Golf, for example, presents serious scheduling hurdles not faced by other sports. Our coaches are sensitive to the academic lives of their players, but they also need to be competitive. The chair asked whether in future years it

would make sense to forgo scheduling the Oakland game, at least. Baseball's scheduling of several last-week games puts the Board in a bad position vis-à-vis other sports, most of which schedule none. Prof. Borkowski noted that the final-week Oakland game had been challenged within the Board before. Indeed, the chair observed, on at least one occasion—the 1995-96 academic year, a baseball game had been moved, at the request of the Board, outside the last week of class. How important is the Oakland game?, Prof. Barrett queried. We have to get in our full complement of games, Mr. Scholl stated; moreover, if at that point we have thirty-nine wins, the game carries the significant potential of getting us to what coaches might consider the magic of forty. This explains why we re-schedule rain-outs. We can try to move the game to another week, but for both teams other weeks are already pretty full. Prof. Borkowski: The optimal path in future years would be to move the Oakland game out of that period. Then, the Michigan game on Tuesday would be the last one until that week-end. Father Poorman, agreeing, pointed out that, in any event, a five-game schedule during that last week of class surely did not honor the principle underlying the guideline. At this point, Prof. Berry moved that the 2002-03 baseball schedule be approved. Father Poorman seconded that motion. Both that motion, and a related one calling for the moving or dropping of the "Wednesday game" traditionally played during the final week of class, passed unanimously.

**5. Women's-lacrosse schedule:** The women's-lacrosse team brought before the Board a schedule calling for an away game against Vanderbilt during the spring 2003 study days. University regulations allows only "limited non-conference" competition during study days. In support of the schedule, the administrator for women's lacrosse, Ms. Sandy Barbour, pointed to the uniqueness of women's lacrosse, which is essentially an Eastern sport. The team has a ten- or eleven-week period, including study days, in which to schedule just seventeen contests. With seven of these games taking place at home, traveling is dramatically limited. Indeed, until the scheduled game against Vanderbilt, the team plays only

at home for the last three weeks of the season and misses no classes during that period. It is difficult to get a top-25 non-conference team to come to South Bend. Our relationship with Vanderbilt, a top-15 team, is very important. We beat Vanderbilt here last year, then moved on to the NCAA tournament. Over the six years of this program, the team GPA has been above 3.2; the current team's GPA stands at 3.17. The program has never had a player on academic probation. Father Poorman: Does approval of this study-day game set a pattern for future years? Probably so, responded Ms. Barbour; last year, she believes, the Notre Dame-Vanderbilt game here occurred during Vanderbilt's study days. The coaches keep trying to adjust the schedule, but that game may come before the Board again. Prof. Garg moved that the 2002-03 schedule for women's lacrosse be approved; Prof. Berry seconded. The Board approved the schedule unanimously.

**6. Men's-golf schedule:** There then came before the Board a request by the golf team for an additional class-miss day (Friday, April 25, the practice-round day for a week-end tournament at Michigan State University) during the spring 2003 semester. Mr. Mike Karwoski, newly appointed administrator for men's golf, reminded the Board of the difficulties the team faces in scheduling. This very competitive team, in order to join the elite teams, must work its way into better tournaments. Alas, golf requires two days for a tournament, not counting the practice round needed because golf courses differ so much one from another. Moreover, golf teams play at most one match a year at home. Finally, golf courses increasingly limit university competition to week-days in order to keep week-ends open for more lucrative individual play. Prof. Barrett: Although the Big East tournament will be played here, can we add a home match that would preclude the need for a practice round? Head coach John Jasinski would like to add a home tournament, Mr. Karwoski responded; the problem lies in getting "quality" teams to come here. Most tournaments have already locked teams in; the higher your rank, the better your opponents. Dr. White added that our unpredictable weather, especially earlier in the semester, makes scheduling

matches here difficult. Moreover, just now "high-end people" are discovering the quality of the Warren Golf Course. A tournament here obviously occasions the closing of the course and a significant loss of income. At the same time, we expect Coach Jasinski to take us to that elite level. Prof. Fallon pointed out that the logic of the proposal augurs still more class-miss days in future years. Except for Northwestern, universities with good golf programs seem to allow many more class-miss days than we do. Are we looking at a policy for golf dramatically different from that for our other sports? No, Dr. White replied; it is important for us to "stay the course" with regard to class misses for athletics scheduling. After all, some other sports could also justifiably press for broad-based waivers. What golf does need, though, is slight and occasional relief from our class-miss policy in light of the difficulties that scheduling in golf presents. Prof. Bender moved that the 2002-03 schedule for men's golf be approved. Prof. Weber seconded the motion, which carried with one abstention (Father Poorman's).

**7. Bowl Prospects:** At this point, as provided for by the *FBA Manual*, Dr. White briefed the Board on Notre Dame's football bowl prospects. Should UCLA beat Washington State, we could be invited to the Orange Bowl. Still less likely, should both Miami and Georgia lose a game, we could get invited to the Sugar Bowl. Although theoretically our non-BCS Bowl prospects include both the Gator and the Cotton (under our oral agreement, Notre Dame could go to the Cotton Bowl one year in four), our likely bowl appearance will be in the Gator, against North Carolina State. We will probably know by next Saturday. The chair thanked Dr. White for this information.

**8. Reports of subcommittee chairs:** Prof. Berry reported that his subcommittee on communication had held separate breakfast meetings with academic advisors in deans' offices and with those in departments, respectively. A variety of academic issues related to student-athletes came up for discussion. Many advisors in the departments were not aware of the "DARTing" priority provided for certain teams. They have asked to be informed of such

developments. Prof. Berry stressed the importance of regular communication between the Board and academic advisors. Prof. Borkowski expressed his concern that priority registration could result in student-athletes constituting a third of the enrollment in certain small classes. Mr. Holmes responded that some administrators had already spoken of limiting the percentage of student-athletes in any one course; after registration, he plans to meet with some of these administrators to "tweak" the policy. Prof. Fallon suggested that the policy needed "tweaking" by the Board, as well. Father Poorman: This Board is advisory to Father Malloy alone; should not this policy have been promulgated by him, if by anyone? And, in any event, this policy should carry the authority of the Board; the policy has enormous impact on academic advisors. What is the proper procedure here? The chair noted that the matter had not come before the Board, but had been resolved by the Office of the Provost. To be sure, Mr. Holmes, Father Poorman and the chair of the Board did attend a meeting held to discuss that priority, after which Mr. Holmes reported to the Board on the action taken by the Office of the Provost. But the matter did not come to the Board for its approval. To Prof. Barrett's observation that the policy finds its roots in the era of Coach Bob Davie, Mr. Holmes stated that football has had priority registration since the fall of 2000.

Prof. Bender, on behalf of the subcommittee on academic integrity, reported on the progress of plans for a conference entitled, "Religion, Ritual and Sport." He hopes that the Notre Dame Library, the Mendelson Center for Sport, Character and Culture, and the Department of Athletics might jointly produce the conference. The conference could be one installment of an annual "Joyce Conference."

Prof. Barrett, for the subcommittee on student welfare, reported that since the drug-testing policy has now been approved and put into action, the subcommittee will address whether any additional or different regulations might be needed to protect Orientation Weekend, an issue concerning which the Board has recently expressed concern. As part of this evaluation, the subcommittee

will soon meet with Dr. Eileen Kolman, dean of the First Year of Studies.

**9. Adjournment:** The chair adjourned the meeting at 6:40 P.M.

**Awards and Proposal Summary**

01/01/2003 to 01/31/2003

**Awards Received**

Category	No.	Amount
Research	32	\$3,589,207
<b>Total:</b>	<b>32</b>	<b>\$3,589,207</b>

**Proposals Submitted**

Category	No.	Amount
Research	56	\$11,784,165
<b>Total:</b>	<b>56</b>	<b>\$11,784,165</b>

**January 2003 Cumulative summary****Awards Received**

Category	07.01.2000 - 01.31.2001		07.01.2001 - 01.31.2002		07.01.2002 - 01.31.2003	
	No.	Amount	No.	Amount	No.	Amount
Research	261	\$36,550,880	229	\$29,235,828	190	\$32,744,401
Facilities and Equipment						
Instructional Programs	9	\$870,726	9	\$1,184,402	10	\$1,333,710
Other Programs	1	\$25,000				
Service Programs						
<b>Total:</b>	<b>271</b>	<b>\$37,446,606</b>	<b>238</b>	<b>\$30,420,230</b>	<b>200</b>	<b>\$34,078,111</b>

**Proposals Submitted**

Category	07.01.2000 - 01.31.2001		07.01.2001 - 01.31.2002		07.01.2002 - 01.31.2003	
	No.	Amount	No.	Amount	No.	Amount
Research	357	\$167,383,088	422	\$146,010,672	350	\$97,888,052
Facilities and Equipment						
Instructional Programs	1	\$11,500	7	\$4,663,018	7	\$3,253,080
Other Programs						
Service Programs						
<b>Total:</b>	<b>358</b>	<b>\$167,394,588</b>	<b>429</b>	<b>\$150,673,690</b>	<b>357</b>	<b>\$101,141,132</b>

All awards and proposals are credited in the Monthly Summaries report to the academic department of the primary principal investigator. The Office of Research proposal routing form asks principal investigators to indicate at the time the proposal is submitted which unit will be responsible for the conduct of the project. If that unit is a center or institute the proposal/award is included in the Centers/Institutes report that is a subset of the Monthly Summaries report.

The Office of Research is doing what it can to ensure all units receive credit for the proposals/awards they submit and receive. However, it depends on the PI to properly identify responsibility for the project at the time the proposal is submitted. Please notify the Office of Research at [research@nd.edu](mailto:research@nd.edu) or 631-4670 if you are aware of any proposals or awards that have not been properly credited to a center or institute.

# Research

## Awards Received

January 1, 2003, through January 31, 2003

### Awards for Research

#### ACE Educational Outreach

**Johnstone, Joyce V.**

Ace Catholic School Leadership Program

Private Foundation

\$20,000

12 months

#### Aerospace and Mechanical Engineering

**Thomas, Flint O.; Corke, Thomas C. (Center or Institute)**

Enhanced Design of Turbo-Jet LPT by Separation Control  
Using Phased Plasma Actuators

National Aeronautics and Space Administration

\$99,998

36 months

**Corke, Thomas C. (Center or Institute)**

Phased Plasma Actuators for Unsteady Flow Control

Department of Army

\$24,000

36 months

**Corke, Thomas C. (Center or Institute)**

University of Notre Dame/Northrop Grumman Corporation  
Joint Program in Aero-Optics

Corporation

\$25,000

17 months

**Corke, Thomas C. (Center or Institute)**

Phased Plasma Actuators for Unsteady Flow Control

Department of Army

\$77,218

37 months

**Corke, Thomas C. (Center or Institute)**

Center for Flow Control: Consortium Membership Agreement  
between UND and Northrop Grumman Corporation

Corporation

\$50,000

12 months

**Mueller, Thomas J.; Morris, Scott C. (Center or Institute)**

Development of Experimental Inversion and Simulation  
Techniques to Study Propeller Blade Response to Inflow  
Distortions

Department of Navy

\$39,828

11 months

## Biological Sciences

**Belovsky, Gary E.**

Brine Shrimp Population Dynamics Research

Utah State University

\$46,935

12 months

**Collins, Frank Hadley; Severson, David William (Center or Institute)**

Malaria Control by Genetic Manipulation of Vectors

National Institutes of Health

\$690,210

24 months

**Vaughan, Kevin T.**

Regulation of Cytoplasmic Dynein Function During Platelet  
Activation

Private Foundation

\$49,000

24 months

## Chemical Engineering

**McCready, Mark J.**

Fundamental Studies on Two-Phase Gas-Liquid Flows Through  
Packed-Beds in Microgravity

National Aeronautics and Space Administration

\$40,919

46 months

## Chemistry and Biochemistry

**Baker, Brian M.**

Physical Basis for T Cell Receptor Binding and Activity

National Institutes of Health

\$269,105

60 months

**Clark, Patricia L.**

CAREER: Conformations of Beta-Sheet Folding Intermediates:  
The Discrimination Between Productive Folding and  
Aggregation

National Science Foundation

\$209,412

60 months

**Clark, Patricia L.**

*In Vitro* Protein Evolution to Improve Beta-Sheet Folding and  
Stability

Private Foundation

\$260,000

48 months

**Carmichael, Ian C.; Ferraudi, Guillermo; Helman, W. Phillip; Kamat, Prashant; Schuler, Robert H.; Madden, Keith P.; Asmus, Klaus-Dieter; LaVerne, Jay A.; Guldi, Dirk; Fessenden, Richard W.; Hug, Gordon L.; Chipman, Daniel M.; Tripathi, Gorakh Nath R.; Pimblott, Simon M.; Meisel, Dan (Center or Institute)**

Radiation and Photochemistry in Condensed Phase

Department of Energy

\$500,000

12 months

### **Civil Engineering and Geological Sciences**

#### **Kurama, Yahya C.**

Coupled Precast Concrete Structural Walls

Private Foundation

\$20,000 18 months

#### **Kurama, Yahya C.**

Coupled Precast Concrete Structural Walls

Private Foundation

\$15,000 18 months

#### **Kurama, Yahya C.**

Coupled Precast Concrete Structural Walls

Corporation

\$6,500 18 months

#### **Westerink, Joannes J.**

ADCIRC Hydrodynamic Circulation and Transport Code Development

Department of Army

\$50,000 47 months

### **Computer Science and Engineering**

#### **Flynn, Patrick; Bowyer, Kevin W.**

Data Sets, Baseline Performance Reference Points, and Evaluation Metrics for Human ID

Navy/DARPA

\$146,038 35 months

#### **Kogge, Peter M.**

Understanding Performance of New PIM-Based Execution Models

Sandia National Laboratory

\$88,559 11 months

### **Electrical Engineering**

#### **Fay, Patrick J.; Orlov, Alexei; Snider, Gregory L. (Center or Institute)**

A Novel High-Speed Electrometer for Nanoscale Electronic Device

National Science Foundation

\$12,000 36 months

#### **Hall, Douglas C. (Center or Institute)**

Native-Oxide-Based Optical Waveguides in Compound Semiconductor Heterostructures

Corporation

\$76,790 10 months

#### **Porod, Wolfgang (Center or Institute)**

Physically Coupled Nanostructures for Locally Interconnected Circuit Architectures

Department of Navy

\$100,000 36 months

#### **Sauer, Ken D.**

Research on Iterative Reconstruction Methods for Spiral X-ray CT

Corporation

\$33,702 36 months

#### **Snider, Gregory L.; Seabaugh, Alan C. (Center or Institute)**

Tunnel Diode IC

Corporation

\$82,500 36 months

#### **Fay, Patrick J.; Bernstein, Gary H.; Collins, Oliver M.; Seabaugh, Alan C. (Center or Institute)**

Mixed Signal Nanoelectronics

Department of Navy

\$220,000 48 months

### **Physics**

#### **Barabási, Albert-László**

Experimental and Theoretical Studies of Wet Granular Media

National Aeronautics and Space Administration

\$21,809 44 months

#### **Garnavich, Peter M.**

Probing the Equation of State of the Dark Energy with Supernovae

University of Washington

\$46,468 13 months

### **Political Science**

#### **Messina, Anthony M.; Fishman, Robert M.; McAdams, A.J. (Center or Institute)**

The Year of the Euro

Private Foundation

\$13,245 11 months

### **Psychology**

#### **Maxwell, Scott E.; Boker, Steven M.; Bergeman, Cindy S.; Wenger, Michael J.; Schuster, Christof; Yuan, Ke-Hai**

Conference and Workshop: Dynamical Systems Data Analysis

National Institutes of Health

\$18,650 11 months

**Cummings, E. Mark**

Marital Conflict Resolution and Child Development  
National Institutes of Health

\$236,321 12 months

**Proposals Submitted**

January 1, 2003, through January 31, 2003

Proposals for Research**Aerospace and Mechanical Engineering****Bowling, Alan P.**

Control of Agile Motions in Legged Locomotion

Department of Army

\$149,956 36 months

**Corke, Thomas C.; Haddad, Osamah**

Unsteady DNS Modeling of Weakly Ionized Phased Plasma  
Actuator

National Science Foundation

\$39,705 24 months

**Schmid, Steven R.**

Advanced Lubrication Model for Forging Software

Ohio State University

\$37,125 12 months

**Biological Sciences****Adams, John H.**

The Role of Duffy Negativity in Resistance to Malaria

National Institutes of Health

\$74,250 12 months

**Belovsky, Gary E.**

Comparative Ecology of Montane Snakes in Burned and  
Unburned Madrean Woodland

U.S. Forest Service

\$141,080 37 months

**Feder, Jeffrey L.**

Paradise Gained: The Role of Visual and Olfactory Cues for  
Host Plant Discrimination, Reproductive Isolation and  
Sympatric Speciation for Apple Maggot Fly

National Science Foundation

\$369,360 36 months

**McDowell, Mary A.**

The Role of Complement Receptor 3 in a Chronic  
Inflammation Model of Murine Leishmaniasis

Private Foundation

\$247,500 36 months

**McDowell, Mary A.**

The Role of Complement Receptor 3 in a Chronic  
Inflammation Model of Murine Leishmaniasis

Private Foundation

\$260,000 48 months

**Schorey, Jeffrey S.**

MAPK Signaling in M. Tuberculosis Infected Macrophages

National Institutes of Health

\$68,915 12 months

**Schorey, Jeffrey S.**

Macrophage Signaling Upon M. Avium Infection

National Institutes of Health

\$290,845 12 months

**Shay, Neil F.**

Soy Isoflavones Exert Anti-Diabetic Effects Via PPAR and ER  
Receptors

Southern Illinois University

\$51,750 36 months

**Vaughan, Kevin T.**

Regulation of Cytoplasmic Dynein Targeting

National Institutes of Health

\$259,875 12 months

**Chemical Engineering****Ostafin, Agnes E.**

Chemiluminescent Liposomes for Detection of Cancer

National Science Foundation

\$373,555 36 months

**Chemistry and Biochemistry****Balsara, Rashna D.**

Induction of Vascular Endothelial Growth Factor by  
Plasminogen Activator Inhibitor-1 in Murine Endothelial  
Cells

Private Foundation

\$108,500 36 months

**Brown, Seth N.**

Alkene Activation by Metal Nitride and Carbyne Complexes

National Science Foundation

\$499,837 36 months

**Castellino, Francis J.**

The Hemostasis System in Acute Inflammation-Sepsis

National Institutes of Health

\$444,758 12 months

**Kandel, S.A.**

Reactions of Atoms with Alkanethiol Self-Assembled Monolayers

National Science Foundation

\$329,478 36 months

**Prorok, MaryFrances E.**

Peptide Modulation of the NMDA Receptor

Private Foundation

\$110,000 24 months

**Rosen, Elliot D.***In Utero* Transplantation as a Therapy for Hemophilia

Private Foundation

\$990,000 36 months

**Rosen, Elliot D.**

Examining the Role of FX Using FX Insufficient Mice

National Institutes of Health

\$348,940 12 months

**Scheidt, W. Robert**

X-Ray and Chemical Studies of Metalloporphyrins

National Institutes of Health

\$331,700 12 months

**Taylor, Richard E.**

Myriaporones: Synthetic and Biological Studies

National Institutes of Health

\$182,985 12 months

**Wiest, Olaf G.**

Structure, Reactivity and Selectivity of Hydrocarbon Radical Cations

National Science Foundation

\$472,667 48 months

**Civil Engineering and Geological Sciences****Burns, Peter C.**

U(VI) Subsurface Chemistry in Hanford's Tank Farms

Pacific Northwest National Laboratory

\$80,068 12 months

**Jain, Jinesh C.; Neal, Clive R.**

Removal of Toxic Metals from Industrial Wastewaters

Corporation

\$29,700 12 months

**Neal, Clive R.; Jain, Jinesh C.**

Aquisition of a High Resolution, Magnetic Sector Inductively Coupled Plasma Mass Spectrometry (ICP-MS) Facility for the University of Notre Dame

National Science Foundation

\$431,060 12 months

**Electrical Engineering****Fay, Patrick J.**

High-Efficiency RFID Tags

Corporation

\$20,493 6 months

**Fay, Patrick J.**

GaAsSb-Based Infrared Avalanche Photodiode Detectors

Corporation

\$33,288 9 months

**Fay, Patrick J.**

Low-Voltage InP-Based Power Amplifiers

Corporation

\$33,288 9 months

**Haenggi, Martin**

Energy and Delay Balancing Strategies for Wireless Sensor Networks

National Science Foundation

\$293,188 36 months

**Hall, Douglas C.; Snider, Gregory L.**

Oxidation of InAlGaAs for Nanostructure Applications

Corporation

\$32,000 6 months

**Hall, Douglas C.; Fay, Patrick J.**

Native-Oxide Defined AlGaAs Heterostructure Bipolar Transistors

Corporation

\$31,968 6 months

**Hall, Douglas C.**

InAlGaAs Avalanche Photodiodes for Free-Space Communications

Corporation

\$31,963 9 months

**Hall, Douglas C.; Fay, Patrick J.**

Native-Oxide Defined AlGaAs Heterostructure Bipolar Transistors

Corporation

\$21,997 6 months



**Hall, Douglas C.; Snider, Gregory L.**

Oxidation of InAlGaAs for Nanostructure Applications

Corporation

\$31,988 9 months

**Hall, Douglas C.**

High-Efficiency, Monolithic Active-to-Passive Waveguide-to-Fiber Couplers

Corporation

\$31,963 9 months

**Hall, Douglas C.**

Advanced InAlGaAs Oxidation for Photonic Devices

Corporation

\$21,885 6 months

**Hall, Douglas C.**

High-Efficiency, Monolithic Active-to-Passive Waveguide-to-Fiber Couplers

Corporation

\$32,000 6 months

**Hall, Douglas C.**

Advanced InAlGaAs Oxidation for Photonic Devices

Corporation

\$32,000 6 months

**Seabaugh, Alan C.**

Nanofabrication Instrument Development

National Science Foundation

\$648,402 27 months

**English****Hendler, Glenn S.**

Riot Acts: Race, Gender, and Public Violence in Nineteenth-Century American Literature

Private Foundation

\$30,000 9 months

**Freimann Animal Care Facility****Suckow, Mark A.**

Expansion of Animal Research Infrastructure at the University of Notre Dame

National Institutes of Health

\$1,814,633 12 months

**Suckow, Mark A.; Jain, Jinesh C.**

Calcification Potential of Biomaterials

Private Foundation

\$20,016 11 months

**Institute for Latino Studies****Lafeld, Karen**

Models of the Occurrence and Timing of Naturalization

National Institutes of Health

\$12,007 12 months

**Mathematics****Alber, Mark S.; Izaguirre, Jesus A.; Madey, Gregory R.; Maurice, Patricia A.; Baker, Brian M.**

Acquisition of Computer Infrastructure for the Notre Dame Interdisciplinary Center for the Study of Biocomplexity

National Science Foundation

\$168,384 24 months

**Mendelson Center for Sports, Character, and Community****Bredemeier, Brenda L.**

Promoting Social Development Through Sports: An Intervention with Middle-School Girls

Private Foundation

\$14,866 12 months

**Philosophy****Shrader-Frechette, Kristin**

Expert Judgment and the Linear No-Threshold (LNT)

Hypothesis: Relevance Relations, Free Informed Consent, and the Naturalistic Fallacy NF

National Science Foundation

\$494,612 60 months

**Physics****LoSecco, John M.**

Research in CP Violation in the B Meson Sector

Department of Energy

\$735,029 36 months

**Political Science****Dowty, Alan K.**

Shouldering the State Security Burden: Regime Type, Social Comparison of Militaries, and Combat Fatalities

National Science Foundation

\$14,670 12 months

**Wolbrecht, Christina K.**

Collaborative Research on Women Voters from Suffrage to the New Deal

National Science Foundation

\$125,262 24 months

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**Psychology**

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**Wenger, Michael J.; Bergeman, Cindy S.; Schuster, Christof; Yuan, Ke-Hai; Maxwell, Scott E.; Boker, Steven M.**

Notre Dame Series on Quantitative Methodology

National Institutes of Health

\$25,376

12 months

**West, Robert L.**

Controlled Attention and Prospective Memory

National Science Foundation

\$221,578

36 months

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**Sociology**

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**Carbonaro, William J.**

Racial and Ethnic Differences in College Graduation: The  
Lasting Effects of Students' High School Experiences

Private Foundation

\$32,700

24 months

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**Theology**

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**Groody, Daniel G.**

An Undocumented Theology: Christian Life from Immigrant  
Perspective

Private Foundation

\$5,000

3 months

**Leyerle, Blake**

Traveling Space: Theorizing Early Christian Pilgrimage

Private Foundation

\$25,000

9 months

**Zachman, Randall C.**

The Living Icons of God: Manifestation and Proclamation in  
the Theology of John Calvin

Private Foundation

\$25,000

9 months

## Awards and Proposal Summary

Centers and Institutes Report

01/01/2003 to 01/31/2003

### Awards Received

Department or Office	No.	Amount
Center for Flow Physics and Control	6	\$316,044
Center for Tropical Disease Research & Training	1	\$690,210
Nano Science and Technology Center	5	\$491,290
Nanovic Institute	1	\$13,245
Radiation Laboratory	1	\$500,000
<b>Total:</b>	<b>14</b>	<b>\$2,010,789</b>

### Proposals Submitted

Department or Office	No.	Amount
Center for Flow Physics and Control	1	\$39,705
Center for Molecularly Engineered Materials	1	\$373,555
Center for Transgene Research	4	\$1,892,198
Center for Tropical Disease Research & Training	5	\$941,510
Freimann Life Science Center	2	\$1,834,649
Institute for Latino Studies	2	\$17,007
Interdisciplinary Center for the Study of Biocomplexity	1	\$168,384
Mendelson Center for Sport, Character, & Culture	1	\$14,866
Nano Science and Technology Center	13	\$1,003,235
<b>Total:</b>	<b>30</b>	<b>\$6,285,109</b>

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

07/01/2002 to 01/31/2003

**Awards Received**

Department or Office	No.	Amount
Alliance for Catholic Education	2	\$141,249
Center for Astrophysics	1	\$17,928
Center for Environmental Science and Technology	1	\$80,000
Center for Flow Physics and Control	11	\$860,218
Center for Molecularly Engineered Materials	2	\$33,500
Center for Orphan Drug Development	1	\$20,000
Center for Transgene Research	3	\$1,023,510
Center for Tropical Disease Research & Training	8	\$4,205,700
Freimann Life Science Center	3	\$18,520
Institute for Latino Studies	5	\$719,512
Interdisciplinary Center for the Study of Biocomplexity	2	\$15,000
Kellogg Institute for International Studies	3	\$217,218
Keough Institute for Irish Studies	1	\$107,694
Kroc Institute for International Peace Studies	1	\$15,000
Nano Science and Technology Center	12	\$2,171,942
Nanovic Institute	1	\$13,245
Radiation Laboratory	3	\$530,000
South Bend Center for Medical Education	1	\$243,855
TRIO Programs	3	\$1,065,595
<b>Total:</b>	<b>64</b>	<b>\$11,499,686</b>

**Proposals Submitted**

Department or Office	No.	Amount
Center for Astrophysics	4	\$1,773,852
Center for Flow Physics and Control	6	\$2,539,348
Center for Molecularly Engineered Materials	9	\$5,903,394
Center for Transgene Research	7	\$4,512,614
Center for Tropical Disease Research & Training	11	\$1,996,755
Center for Zebrafish Research	1	\$334,125
Cushwa Center for American Catholicism	1	\$30,000
Environmental Molecular Science Institute	2	\$435,062
Freimann Animal Care Facility	1	\$5,020
Freimann Life Science Center	3	\$2,144,524
Higgins Labor Research Center	1	\$12,500
Institute for Educational Initiatives	1	\$204,988
Institute for Latino Studies	9	\$504,487
Interdisciplinary Center for the Study of Biocomplexity	2	\$762,384
Kellogg Institute for International Studies	4	\$1,738,558
Kroc Institute for International Peace Studies	1	\$15,000
Laboratory for Social Research	1	\$247,992
Lobund Laboratory	1	\$513,280
Mendelson Center for Sport, Character, & Culture	1	\$14,866
Nano Science and Technology Center	45	\$24,804,934
Nanovic Institute	2	\$16,176
Office of Special Instructional Projects and Activities	1	\$1,625,789
Program of Liberal Studies	1	\$103,591
Radiation Laboratory	3	\$379,589
South Bend Center for Medical Education	3	\$395,500
Walther Cancer Institute Chair I	1	\$194,955
Walther Cancer Research Center	7	\$3,133,815
<b>Total:</b>	<b>129</b>	<b>\$54,343,098</b>

## Awards Received

January 1, 2003, through January 31, 2003

### Awards for Research

#### Center for Flow Physics and Control

Phased Plasma Actuators for Unsteady Flow Control

Department of Army

\$24,000 36 months

Enhanced Design of Turbo-Jet LPT by Separation Control  
Using Phased Plasma Actuators

National Aeronautics and Space Administration

\$99,998 36 months

University of Notre Dame/Northrop Grumman Corporation  
Joint Program in Aero-Optics

Corporation

\$25,000 17 months

Phased Plasma Actuators for Unsteady Flow Control

Department of Army

\$77,218 37 months

Center for Flow Control: Consortium Membership  
Agreement between UND and Northrop Grumman  
Corporation

Corporation

\$50,000 12 months

Development of Experimental Inversion and Simulation  
Techniques to Study Propeller Blade Response to Inflow  
Distortions

Department of Navy

\$39,828 11 months

#### Center for Tropical Disease Research and Training

Malaria Control by Genetic Manipulation of Vectors

National Institutes of Health

\$690,210 24 months

#### Nano Science and Technology Center

A Novel High-Speed Electrometer for Nanoscale Electronic  
Device

National Science Foundation

\$12,000 36 months

Tunnel Diode IC

Corporation

\$82,500 36 months

Native-Oxide-Based Optical Waveguides in Compound  
Semiconductor Heterostructures

Corporation

\$76,790 10 months

Mixed Signal Nanoelectronics

Department of Navy

\$220,000 48 months

Physically Coupled Nanostructures for Locally Interconnected  
Circuit Architectures

Department of Navy

\$100,000 36 months

#### Nanovic Institute

The Year of the Euro

European Union in the U.S.

\$13,245 11 months

#### Radiation Laboratory

Radiation and Photochemistry in Condensed Phase

Department of Energy

\$500,000 12 months

## Proposals Submitted

January 1, 2003, through January 31, 2003

### Proposals for Research

#### Center for Flow Physics and Control

Unsteady DNS Modeling of Weakly Ionized Phased Plasma  
Actuator

National Science Foundation

\$39,705 24 months

#### Center for Molecularly Engineered Materials

Chemiluminescent Liposomes for Detection of Cancer

National Science Foundation

\$373,555 36 months

### Center for Transgene Research

*In Utero* Transplantation as a Therapy for Hemophilia

Private Foundation

\$990,000 36 months

Examining the Role of FX Using FX Insufficient Mice

National Institutes of Health

\$348,940 12 months

The Hemostasis System in Acute Inflammation-Sepsis

National Institutes of Health

\$444,758 12 months

Induction of Vascular Endothelial Growth Factor by  
Plasminogen Activator Inhibitor-1 in Murine Endothelial  
Cells

Private Foundation

\$108,500 36 months

### Center for Tropical Disease Research and Training

The Role of Duffy Negativity in Resistance to Malaria

National Institutes of Health

\$74,250 12 months

The Role of Complement Receptor 3 in a Chronic  
Inflammation Model of Murine Leishmaniasis

Private Foundation

\$247,500 36 months

Macrophage Signaling Upon *M. Avium* Infection

National Institutes of Health

\$290,845 12 months

The Role of Complement Receptor 3 in a Chronic  
Inflammation Model of Murine Leishmaniasis

Private Foundation

\$260,000 48 months

MAPK Signaling in *M. Tuberculosis* Infected Macrophages

National Institutes of Health

\$68,915 12 months

### Freimann Life Science Center

Expansion of Animal Research Infrastructure at the University  
of Notre Dame

National Institutes of Health

\$1,814,633 12 months

Calcification Potential of Biomaterials

Corporation

\$20,016 11 months

### Institute for Latino Studies

An Undocumented Theology: Christian Life from Immigrant  
Perspective

Private Foundation

\$5,000 3 months

Models of the Occurrence and Timing of Naturalization

National Institutes of Health

\$12,007 12 months

### Interdisciplinary Center for the Study of Biocomplexity

Acquisition of Computer Infrastructure for the Notre Dame  
Interdisciplinary Center for the Study of Biocomplexity.

National Science Foundation

\$168,384 24 months

### Mendelson Center for Sports, Character, and Community

Promoting Social Development Through Sports: An  
Intervention with Middle-School Girls

Private Foundation

\$14,866 12 months

### Nano Science and Technology Center

Nanofabrication Instrument Development

National Science Foundation

\$648,402 27 months

Oxidation of InAlGaAs for Nanostructure Applications

Corporation

\$32,000 6 months

Advanced InAlGaAs Oxidation for Photonic Devices

Corporation

\$32,000 6 months

Native-Oxide Defined AlGaAs Heterostructure Bipolar  
Transistors

Corporation

\$31,968 6 months

High-Efficiency, Monolithic Active-to-Passive Waveguide-to-Fiber Couplers

Corporation

\$32,000 6 months

High-Efficiency RFID Tags

Corporation

\$20,493 6 months

Low-Voltage InP-Based Power Amplifiers

Corporation

\$33,288 9 months

GaAsSb-Based Infrared Avalanche Photodiode Detectors

Corporation

\$33,288 9 months

InAlGaAs Avalanche Photodiodes for Free-Space Communications

Corporation

\$31,963 9 months

High-Efficiency, Monolithic Active-to-Passive Waveguide-to-Fiber Couplers

Corporation

\$31,963 9 months

Advanced InAlGaAs Oxidation for Photonic Devices

Corporation

\$21,885 6 months

Native-Oxide Defined AlGaAs Heterostructure Bipolar Transistors

Corporation

\$21,997 6 months

Oxidation of InAlGaAs for Nanostructure Applications

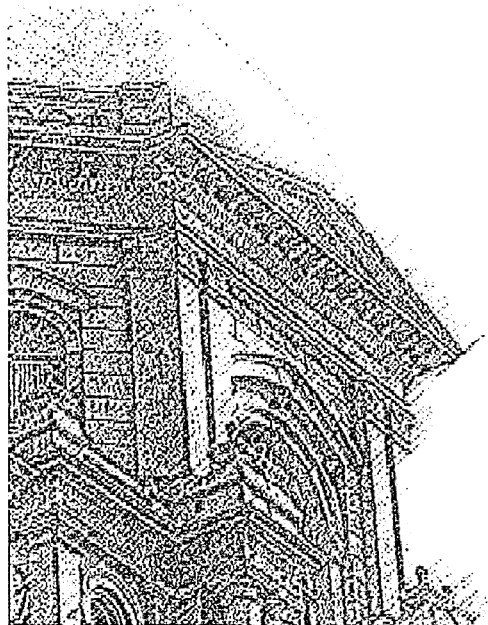
Corporation

\$31,988 9 months



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# Notre Dame Report



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