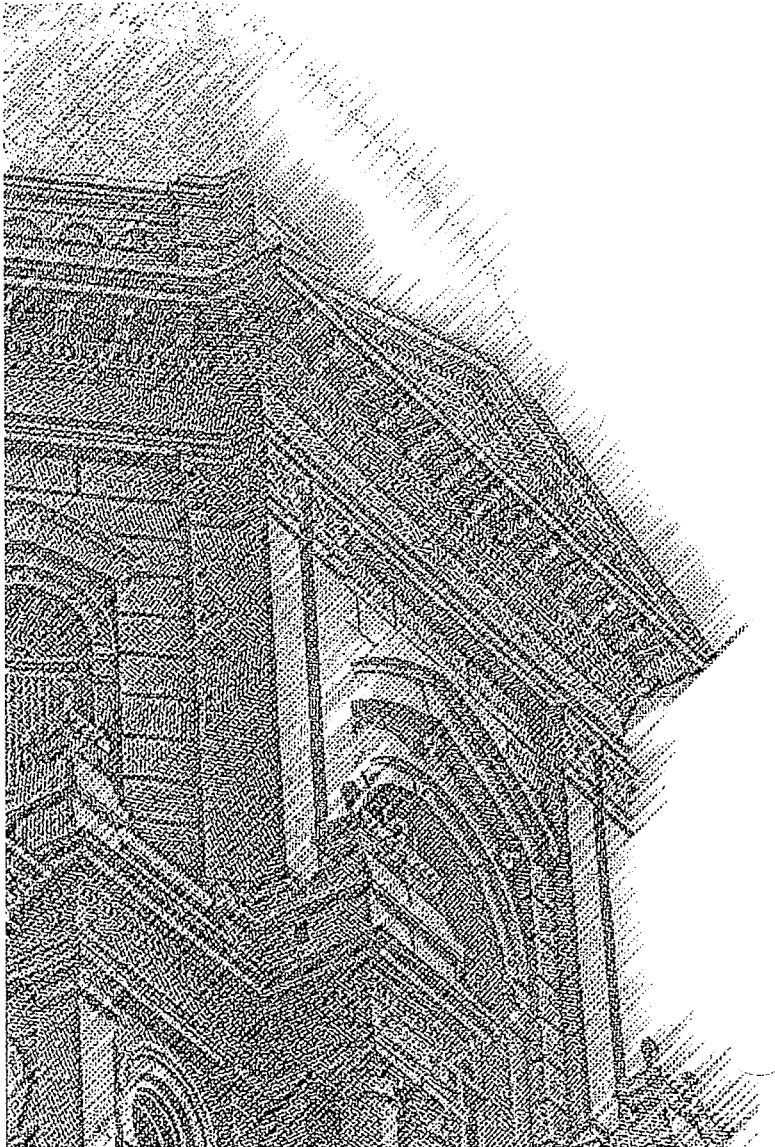


# Notre Dame Report



## Faculty Notes

- 11 ..... Honors
- 11 ..... Activities
- 12 ..... Publications

## Administrators' Notes

- 14 ..... Publications

## Documentation

- 15 ..... Challenges and Opportunities Arising  
From the Current Crisis
- 24 ..... Departmental Awards Received,  
July 2002
- 26 ..... Departmental Proposals Submitted,  
July 2002
- 31 ..... Centers and Institutes Awards Re-  
ceived, July 2002
- 31 ..... Centers and Institutes Proposals for  
Research, July 2002

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**N U M B E R 2**

# Faculty Notes

## Honors

**Kathleen Biddick**, professor of history, was awarded a Fulbright Fellowship to Ireland, where she will be conducting research and teaching for the next year at the Media Lab Europe (Dublin) on the relations of historical narrative and technology.

**William P. Hoye**, associate vice president and deputy general counsel, has been appointed to a three-year term on the NCAA Division I Infractions Appeals Committee (IAC) by the NCAA Management Council.

**Wolfgang Porod**, Freimann Professor of Electrical Engineering, was appointed an associate editor for the newly created *IEEE Transactions on Nanotechnology* (The Institute of Electrical and Electronics Engineers).

**Lisa Sedor**, associate professor of accountancy, has been selected to receive the American Accounting Association ABO Section's (Accounting, Behavior, and Organizations) Outstanding Doctoral Dissertation Award at a special presentation at the AAA annual meeting in August.

**Sandra Vera-Muñoz**, associate professor of accountancy and KPMG Faculty Fellow, has been appointed to the editorial board of *The Accounting Review* for a three-year term; and was recently selected to a two-year term as a council member-at-large of the American Accounting Association (AAA).

**Carroll William Westfall**, Montana Professor of Architecture, was appointed to the Committee of Honour of INTBAU, the International Network of Traditional Building and Architecture.

## Activities

**Lawrence S. Cunningham**, O'Brien Professor of Theology, presented "Why Be a Catholic?" on Aug. 8, at Our Lady of Mount Carmel Church in Newport Beach, Calif.

**Leonid Faybusovich**, professor of mathematics, presented "Infinite-dimensional Second Order Cone Programming and Control Applications" at the Foundations of Computational

Mathematics Symposium, Minneapolis, Aug. 5-14.

**Alexander Hahn**, professor of mathematics, presented the plenary lecture "The Clifford Algebra in the Theory of Algebras, Quadratic Forms, and Classical Groups" at the Sixth International Conference "On Clifford Algebras and Their Applications" at Tennessee Technological Univ., May 21; presented "A Length Question for Local Orthogonal Groups" in the session on Topological Algebraic Structures at an International Algebra Conference in Venice, June 6; and presented "Galileo's *Folio 116v* and the Mirandum Paradox" for the Special Session on the History of Mathematics at the International Mathematics meeting in Pisa, June 13.

**Prashant V. Kamat**, professional specialist in the Radiation Laboratory, presented an invited talk "Chemical Transformations at Semiconductor-Metal Interface and Their Influence on Photocatalytic Processes" and "Fermi Level Equilibration in Semiconductor-Metal Nanocomposite System," coauthored with V. Subramanian and **Eduardo E. Wolf**, professor of chemical engineering, at the CRC International Symposium on Photochemistry at Interfaces, Sapporo, Japan, Aug. 9-11.

**Keith P. Madden**, associate professional specialist in the Radiation Laboratory, presented "A Radiation Chemical Study of DMPO Spin Adduct Stability. Environmental Effects on Spin Adduct Termination," coauthored with H. Taniguchi, at the International EPR Symposium, July 28 through Aug. 1, in Denver.

**Dan Meisel**, director of the Radiation Laboratory and professor of chemistry and biochemistry, presented an invited lecture "Radiolysis Effects in Nuclear Waste" with **John J. Bentley**, associate professional specialist in the Radiation Laboratory; **Ian Carmichael**, professional specialist in the Radiation Laboratory; **Daniel M. Chipman**, professional specialist in the Radiation Laboratory; **Gordon Hug**, associate professional specialist in the Radiation Laboratory; D. Camaioni; and M. Dupuis at a symposium on "The Environmental Management Science Program—Challenges and Successes" at the American Nuclear Society meeting, Reno, Nev., Aug. 4-9.

**James S. O'Rourke IV**, associate professor of management and director of the Fanning Center for Business Communication, presented "Persuasion: Your Competitive Edge in the New Economy" on Aug. 15 at SeaWorld in San Diego.

**Szilvia Papai**, assistant professor of finance and business economics, presented "The Existence of Stable Hedonic Coalitions" at Michigan State on Apr. 12, at the Univ. of Melbourne on May 31, and at the Midwest Economic Theory meetings, Northwestern Univ., Evanston, Ill., May 3-5.

**Wolfgang Porod**, Freimann Professor of Electrical Engineering, G. Csaba, A. Imre, **Gary H. Bernstein**, professor of electrical engineering, and V. Metlushko presented the poster "Nanocomputing by Field-Coupled Nanomagnets" at the Silicon Nanoelectronics Workshop, Honolulu, in June.

**Steve Tomasula**, assistant professor of English, was on the panel "The Material Concerns of Art and Literature," sponsored by *New Art Examiner* at Art Chicago, Navy Pier, May 11.

**Scott Van Jacob**, associate librarian, presented "Where Angels Fear to Tread: Building From Scratch a Southern Cone History Rare Book and Manuscript Collection at the University of Notre Dame" at the 2002 Seminar on the Acquisition of Latin American Library Materials, Cornell Univ., June 3.

**Eduardo E. Wolf**, professor of chemical engineering, presented "Combinatorial IR Thermography Studies of Catalysts Arrays and Parallel Activity Studies of the Preferential Oxidation of CO," coauthored with W. Li and F. Gracia, at the European Workshop on Combinatorial Catalysis, Ischia, Italy, June. 2-5.

## Publications

**Asma Afsaruddin**, assistant professor of Arabic and fellow at the Kroc Institute, published "The Excellences of the Qur'an: Textual Sacrality and the Organization of Early Islamic Society," *Journal of the American Oriental Society* 122, No. 1 (2002): 1-24; and "The Lottery Ticket," translation of the short story

"Waraq ya-nasib" by M. Taymur, in a special volume *Shahrazad's Sisters, Shahriyar's Brothers: An Anthology of Arabic Literature Since 1950*, B. Bennani, ed., of the journal *Paintbrush: A Journal of Poetry and Translation* 28 (2001/2002): 323-34.

**Leonid Faybusovich**, professor of mathematics, published "Self-Concordant Barriers for Cones Generated by Chebyshev Systems," *Journal on Optimization* 12, No. 3 (August): 770-781.

**Richard Garnett**, associate professor of law, published "Yes to Vouchers" in the Aug. 16 edition of *Commonweal*.

**Dirk M. Guldi**, associate professional specialist in the Radiation Laboratory, coauthored "Late First-Row Transition-Metal Complexes of Texaphyrin" with S. Hannah, V. Lynch, N. Gerasimchuk, C.L.B. MacDonald, D. Magda, and J.L. Sessler, *Journal of the American Chemical Society* 124, No. 28 (2002): 8416-8427; and coauthored "Fullerene Architectures Made to Order: Biomimetic Motifs—Design and Features" with N. Martin, *Journal of Materials Chemistry* 12 (2002): 1978-1992.

**Alexander Hahn**, professor of mathematics, published "The Pendulum Swings Again: A Mathematical Reassessment of Galileo's Experiments with Inclined Planes," *Archive for History of Exact Sciences* 56 (2002): 339-361.

**Prashant V. Kamat**, professional specialist in the Radiation Laboratory, coauthored "Electrochemical Modulation of Fluorophore Emission on a Nanostructured Gold Film" with S. Barazzouk and S. Hotchandani, *Angewandte Chemie—International Edition* 41, No. 15 (2002): 2764-2767; and "Photophysical, Photochemical and Photocatalytic Aspects of Metal Nanoparticles," *The Journal of Physical Chemistry B* 106, No. 32 (2002): 7729-7744.

**Richard Mendenhall**, associate professor of finance and business economics, published "How Naive Is the Market's Use of Firm-Specific Earnings Information?" in the *Journal of Accounting Research* 40, No. 3 (June): 841-863.

**Asokendu Mozumder**, research professor emeritus of chemistry and biochemistry and professional specialist in the Radiation Laboratory, published

"Free-Ion Yield and Electron Mobility in Liquid Hydrocarbons: A Consistent Correlation," *The Journal of Physical Chemistry A* 106, No. 30 (2002): 7062-7067.

**George A. Lopez**, professor of political science and senior fellow and director of policy studies for the Kroc Institute, and **David Cortright**, a Kroc research fellow, coauthored *Sanctions and the Search for Security: Challenges to UN Action* (Boulder: Lynne Rienner, 2002): 249 pp.

**Ralph M. McInerny**, Grace Professor of Medieval Studies, director of the Maritain Center, and professor of philosophy, published "Thomas Aquinas on Both Ends of the World" in *Sewanee Medieval Studies* (Sewanee, Tenn: Univ. of the South Press, 2002): 85-110.

**Agnes E. Ostafin**, assistant professor of chemical engineering, coauthored "Self-Assembled Highly Ordered Spherical Mesoporous Silica/Gold Nanocomposites" with R.I. Nooney, T. Dhana-sekaran, Y. Chen, and R. Josephs, *Advanced Materials* 14, No. 7 (2002): 529-532.

**Larry K. Patterson**, research professor emeritus of chemistry and assistant director of the Radiation Laboratory, coauthored "Mechanisms of Flavonoid Repair Reactions with Amino Acid Radicals in Models of Biological Systems: A Pulse Radiolysis Study in Micelles and Human Serum Albumin" with P. Filipe, P. Morlière, **Gordon L. Hug**, associate professional specialist in the Radiation Laboratory, J.-C. Mazière, C. Mazière, J.P. Freitas, A. Fernandes, and R. Santus, *Biochimica et Biophysica Acta* 1571 (2002): 102-114.

**Steven R. Schmid**, associate professor of aerospace and mechanical engineering, copublished "Multi-scale Polymer Properties With Applications to Solid Lubricants in Ironing" with C.-H. Huang in *Wear* 252 (2002): 704-710; and coauthored *Manufacturing Processes for Engineering Materials*, 4th ed with S. Kalpakjian (Prentice-Hall, 2002): 927 pp.

**Robert P. Schmuhl**, professor of American Studies and director of the Gallivan Program in Journalism, Ethics and Democracy, published the essay "Sorting Out Ben Hecht" and the annotated bibliography "Reading Ben Hecht" in *Chicago Tribune Books*, section 14 (Mar. 31): 1-2; contributed the sections

"Hooked on Writing" and "Different Genres, Same Basics" in *The Write Book*, Bob Perlongo, ed. (Glenbrook, Conn.: Art Direction Book Company, 2002): 18-20, 83; published the articles "Where Have All the Thinkers Gone?" and "Obsession" in *Notre Dame Magazine* 31, No. 2 (Summer): 42-45, 88; and published the essay "A Critical Examination of Reviewing" in *Chicago Tribune Books*, section 14 (Aug. 4): 3.

**Steve Tomasula**, assistant professor of English, published "The Atlas of Man" in *McSweeney's* No. 8 (2002): 189-211; "Bodies in Flatland" *Hard Code*, E. Thacker, ed. (Boulder: Alt-X Press, 2002): 264-93; and "An Apology for Postmodern Prose" in *The Iowa Review* 32, No. 1 (2002): 116-122; "Much Ado About Warring Poetics" in *American Book Review* 23, No. 4 (May-June): 7+; "Genetic Art and the Aesthetics of Biology" in *Leonardo* 35, No. 2 (M.I.T Press, 2002): 137-144; "Genetic Texts and Dominion over All the EARTH" in *CyberText Yearbook 2001*, M. Eskelinen and R. Koskimaa, eds. (Jyväskylä [Finland]: Research Centre for Contemporary Culture/Univ. of Jyväskylä, 2002): 74-86; "Martin Nakell, Two Fields that Face and Mirror Each Other" in *The Review of Contemporary Fiction* 22, No. 1 (Spring 2002): 131; and "Mario Vargas Llosa, The Feast of the Goat" in *The Review of Contemporary Fiction* 22, No. 1 (Spring 2002): 120-121.

**Cecilia Van Hollen**, assistant professor of anthropology, published "'Baby Friendly' Hospitals and Bad Mothers: Maneuvering Development in the Postpartum Period in Tamil Nadu, South India." Rozario and Samuel, eds., *The Daughters of Hariti: Birth and Female Healers in South and Southeast Asia* (New York: Routledge, 2002): 163-181.

**Eduardo E. Wolf**, professor of chemical engineering, coauthored "Kinetics, FTIR, and Controlled Atmosphere EXAFS Study of the Effect of Chlorine on Pt Supported Catalysts during Oxidation Reactions" with F.J. Gracia, J.T. Miller, and A.J. Kropf, *Journal of Catalysis* 209, (2002): 341-354.

**Simon M. Pimblott**, associate professional specialist in the Radiation Laboratory, coauthored "Stochastic Simulation of g Radiolysis of Acidic Ferrous

Sulfate Solution at Elevated Temperatures" with M. Begusová, *Radiation Protection Dosimetry* 99, No. 1-4 (2002): 73-76.

# Administrators' Notes

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## Activities

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Alan Bigger, director of Building Services, presented "Measuring Performance" at a nationwide digital seminar (Digichat) hosted and moderated by the International Executive Housekeepers Association on Aug. 13.

# Documentation

## Challenges and Opportunities Arising From the Current Crisis

*(Document sent to the American Catholic Bishops by the University's Church Study Committee in May, 2002)*

### Introduction

We believe that the Church is the sign and instrument of communion with God and of unity among all men and women. We have faith that the Church is the Body of Christ, who communicates His life to us and calls us to holiness through the preaching of the Word and the administration of the sacraments. We have confidence that the Holy Spirit dwells in the Church and in the hearts of the faithful as a temple, and we know that the Spirit will not abandon the Church in her darkest hour, but will continually refresh her with the waters of eternal life.

Nonetheless, like most American Catholics, our hearts have been deeply troubled and our faith has been sorely tested by the way in which some of our priests and bishops have repeatedly failed in their vocations to love and to protect the most vulnerable members of the Body of Christ. Christ gave children a special blessing, proclaiming that whoever does not accept the Kingdom of God like a child will not enter that Kingdom. How, then, can a priest, who participates by grace of ordination in the priesthood of Christ possibly subject a child to sexual abuse and the physical and psychological harm that comes in its wake? Christ was the Good Shepherd, who would lay down his life for his sheep rather than allow any one of them to come to harm. How, then, can a bishop, who is called to be a shepherd to Christ's flock, possibly allow such abuse to continue without protest—or what is worse, to transfer an offender to a situation where he has access to a new group of unsuspecting victims?

These questions are painful, clear, and pointed. Although the answers to them are no less painful, they are far more complicated and obscure. The incidents at the center of the current crisis involve an uncertain mixture of sickness,

sin, fear, self-deception, rationalization, errors in judgment, and institutional inertia that is the mark of fallen humanity. Although guided by the Holy Spirit, the Church is not immune from this mixture and its effects. At times, they threaten to overshadow the tremendous amount of good done under her auspices, particularly on behalf of children, both in the United States and around the world. One of the most tragic effects of the crisis has been the way it not only undermines the Church's credibility in advocating on behalf of children and young people, but also erodes the resources available for her work on their behalf.

Unfortunately, there is no single measure, which if taken, will restore the Church's practices and reputation to a state of wholeness. First, the problem itself is much more complex than it appears in its most anguished form. The nature of the underlying offense and the degree of harm it inflicted upon the victim can vary substantially from case to case. In addition, the response of individual bishops to charges of abuse has varied dramatically over the years and from diocese to diocese.

A second reason why no single measure will be effective stems from the organizational structure of the Church in the United States, in particular the substantial autonomy and independence of each bishop in his own diocese. In the past, this lack of coordination among bishops has hindered the development of a wise and consistent response that not only treats victims of sexual abuse fairly, but also ensures the ability of the Church to continue its sacramental and evangelical mission.

Third, the ultimate goal of eliminating sexual abuse from the priesthood altogether, rather than merely minimizing its harmful effects once it has materialized, requires careful consideration of a number of more complicated and difficult issues, ranging from the adequacy of current modes of priestly formation to the relevance of celibacy or homosexuality to the problem.

We cannot, of course, discuss all of the ramifications of the crisis in this paper. Our goal is far more modest. We believe the challenges facing the bishops can be grouped under three headings: Restor-

ing Trust, Exercising Stewardship, and Seeking Wisdom. In the remainder of this paper, we will briefly explain our sense of the challenges captured by each heading and indicate some concrete steps we believe might be helpful for the bishops to take in meeting those challenges.

### RESTORING TRUST

In our view, the most urgent challenge facing the bishops is restoring the trust of the faithful in the integrity of the priesthood and in the fidelity of the bishops' own leadership. For many American Catholics, the abuse itself is not the most shocking aspect of the crisis, nor the one that has proved most damaging to trust. It is the way that abuse was handled after it was brought to light. In our view, the first, essential step for the bishops to take in restoring trust is to make it clear that the laity and their children matter to them—and that the bishops understand the devastating consequences that sexual abuse can have for a child's psychosexual development. This understanding would be best stated in specific, rather than general, terms.

As the bishops know, it is equally critical that they express sorrow and contrition for their failings, which have contributed to the suffering of victims and their families, and that they evidence their firm resolve to do all in their power to protect the children of the Church from abuse.

Another crucial issue is protecting the good name, restoring the morale, and retaining the trust of the many good priests in the Church, some of whom feel that the Church's lack of a calm, coordinated, and effective response to this crisis undermines their vocations.

### • Pastoral Steps

- A Listening Session. You may wish to consider participating in a "listening session" at the Bishops' Conference, in which the American bishops, gathered in general session, could listen to two or three presentations by victims of sexual abuse regarding the harm that such abuse caused and the help they hoped to receive from the Church in order to overcome it. Such an event would be a vivid and powerful way of countering the perception

held by some that the bishops do not appreciate the plight of the victims.

- Victim Outreach. It seems to us that if it has not already been done so, the Church should sponsor a ministry dedicated to outreach to persons who have been victims of clergy sexual abuse. Such a ministry would be valuable not only to the victims, who often feel rejected as well as betrayed, but also to the Church, which needs their insights.

- A National Day of Penance and Hope. You may wish to consider sponsoring a national day of penance and hope, in which American Catholics could unite in prayer for the victims, their abusers, and the renewal of the Church. A uniform set of readings for the Mass could be made available to parishes across the country.

- Study/Discussion Packets. You may wish to consider assembling a packet of educational materials for use at the parish level, including explanations of the problem as well as a description of the steps that might have been taken and will be taken in order to overcome it. This approach might help counter some of the distorted impressions created by the media coverage, which runs together cases of varying seriousness, spanning broad time periods and geographic areas. A useful model might be the packet of materials prepared for "Respect Life Sunday" each October.

### • Moving Toward a Sound, Uniform National Policy

- Adopting an Interim National Policy. Because of the intensity of the crisis, it appears that the bishops may decide that it is important to adopt a uniform national policy to deal with allegations of clergy sexual abuse at the June meeting. We have learned that some dioceses already have in place sound and workable policies. If the bishops believe that it is prudent to adopt a policy now, we suggest that they model it on policies already recognized to be good, drawing the best features of each. In compiling a national policy, it might prove helpful not only to review the texts of the various models used, but also to consider which features have worked well in practice. Even at the stage of

an interim policy, it will be important to be sensitive to the differences between the large and small dioceses, as well as rich and poor dioceses. If the bishops decide to adopt a policy, they should commit themselves to adopting at least an interim policy in June and a final policy no later than their November meeting. When there is doubt about what the policy should say, the interim policy should err on the side of protecting the children rather than the priests of the Church.

- Instituting Measures to Review and Improve the Policy on a Regular Basis. We believe that the adoption of an interim policy, no matter how adequate it now seems, should only be seen as a first step in dealing with the problem of clergy sexual abuse. We suggest that the bishops institute procedures for regular review and revision of the policy. In this process, the bishops should encourage one another to communicate their ongoing experience regarding which procedures are more or less helpful. In addition, it may well be that they would find it helpful to consult with other denominations that also have experience in handling charges of sexual abuse. Finally, as outlined in more detail below, dealing adequately with the problem long-term will require ongoing research and study, which may well yield insights that should be incorporated into the policy.

- Features of a Sound Policy. It appears to use that a sound policy will incorporate the features outlined below. The list, of course, is not meant to be exhaustive.

—The policy should be welcoming and immediately responsive to victims. It should give victims multiple options for bringing their complaints to the attention of the Church, which will be well-publicized. Because victims may be most comfortable bringing their initial complaint to someone other than a member of the clergy, reporting venues should include lay men and women as well as diocesan officials and could even include a hotline number as a point of initial contact.



—The policy should incorporate the involvement of an independent lay review board both in deciding whether an offense took place and in determining what should happen to the offender. All complaints about clergy sexual abuse would be considered by the board. The membership of the board should be such that it is publicly perceived as objective.

- Including at least one victim of past abuse as a member is strongly encouraged, along with theologians, psychologists, and lawyers.
- Some other Christian churches have found it helpful to include persons from other faiths in the group that makes such a determination. Consideration should be given to doing the same. Wise judgments about these matters require both familiarity with the Church and objectivity about the events that have taken place. Because they are not self-identified with the Church, including sympathetic non-Catholics in the process can help ensure that we achieve the necessary objectivity in judgment, as well as enhance the credibility of the judgment.

Any bishop who might decide not to follow the recommendation of the board should be required to provide a written statement of his reasons for doing so to the board.

—The policy should sketch out, in rough detail, the process that will be followed in handling a complaint. It should not be so complicated that it dissuades victims from initiating a complaint.

—The bishop should meet personally with each victim to hear the victim's complaint and to assure the victim that the bishop will monitor the handling of the case.

#### • Establishing a National Policy Review Board

To assist with the regular review and revision of any national policy adopted, to gather information necessary to responsibly perform such reviews, and to help the Church think about the delicate issues we sketch below, as well as others that may arise in the future, we recommend the establishment by the bishops of an independent national

policy review board charged with these responsibilities. The membership of the board could include bishops and clergy but also should have a preponderance of highly credible, highly respected lay members, perhaps including non-Catholic members for the reasons discussed in connection with the membership of diocesan boards. The existence of such a board would actually enhance the authority of the bishops when they speak and act on such issues because the board would heighten the bishops' credibility.

#### • Grappling with Difficult Issues

- A "One Strike" Policy or a "Zero Tolerance" Policy. In the current discussion, many people have advocated adopting a "one strike and you're out" approach or a "zero tolerance" policy. Those two approaches are often treated as synonymous. As we understand them, however, they may differ in at least one respect. A "zero tolerance" policy would involve laicization of a priest for any act of sexual abuse, past or present, without regard to the nature of the act or its remoteness in time (and perhaps without regard to whether the victim was a child or an adult). A "one strike" policy, on the other hand, might apply only to current and future cases.

Discerning what is meant by these terms is one difficulty; deciding whether either of the policies has any merit is another. We believe that a "zero tolerance" approach, as we have defined it, is both unworkable and, in some instances, may be unjust. There are a variety of reasons that lead us to this conclusion, including the broad array of potential offenses committed over varying time frames; the difficulty of determining exactly what happened in cases that may have occurred decades ago; and the possibility that such a policy would require removal from the priesthood of a man who committed a single offense with a late adolescent two decades ago and who has never committed another and has continued to be an effective minister to the people he serves.

While we propose adoption of one possible interpretation of a "one strike" policy, nothing we say should be understood as implying that any

human action is beyond divine forgiveness. We do intend to say, however, that repentance and forgiveness may not be sufficient to permit continued involvement in ministry.

In certain clear cases, especially those involving a minor, a "one strike" policy may be warranted. Although as a community we probably can reach agreement that certain acts constitute a "strike," it is not clear how far to extend the use of that terminology. Similarly, one needs to explore what is entailed in being "out."

- Comprehensively defining a "strike" is difficult because of the range of inappropriate behavior that is at stake. The age of the victim may range from a small child to a teenager to an adult who is receiving spiritual direction or pastoral care from a member of the clergy. The nature of the conduct may range from a genital sexual relationship to inappropriate touching to sexually explicit remarks. The way in which the conduct occurs may vary greatly. It may be imposed on the victim by force, or elicited by seduction.

- Defining "out" is also difficult, particularly when considered in light of the Church's ongoing responsibility to protect against future abuse. What changes in the priest's status and assignments should be involved? Options range from removal from priesthood (i.e., laicization) to removal from all forms of ministry to reassignment to a low-risk situation.

- In defining what counts as "out" we believe it will be important to think through the moral and legal responsibility of the Church to ensure that a man whom we admitted to the priesthood does no further harm to the broader society. We believe, for example, that it would be irresponsible for the Church to sever all ties with an offender through the laicization process if doing so would mean that he would be given unfettered opportunity to harm the broader public.

We believe that the consequence of sexual misconduct with a minor child



now or in the future should be immediate laicization following the provision of appropriate treatment. A diocesan review board would be free, of course, to determine on a case by case basis that other offenses warrant the same treatment. With regard to instances of, or allegations of, past abuse we believe that any articulation of a "one strike" policy would become unduly complex and probably unworkable. All such cases should be referred to the independent lay review board, which as with present cases, should attempt to determine what happened and make recommendations about whether the priest should remain in ministry and, if so, in which capacity and under what supervision. For example, if the only credible allegation of abuse is 15 years old and involved abuse of a 17 year old, it may be reasonable, after consideration of the specific facts, to conclude that the priest poses a minimal current risk and will be able to effectively minister to his people. In other cases, the assessment may be that the current risk is such that the priest must be laicized or reassigned to a situation involving no public ministry.

• Guidelines for Recruitment and Formation of Seminarians and Priests.

The relatively low number of men entering the priesthood has given rise to concerns that our anxiety about the shortage of priests does not encourage vigorous screening of prospective seminarians. To counter that perception, to ensure vigorous screening, and to provide confidence in and support for the men who decide to dedicate their lives to service of God and God's people, we believe that it would be prudent to develop national guidelines for the recruitment and formation of seminarians. The guidelines could include significant psychological testing, including evaluation of a candidate's moral wisdom/maturity, a complete background check including a criminal background check, and mandatory education about psychosexual development and the development of healthy boundaries while engaged in ministry. In addition, we encourage

development of a program of continuing formation for priests with regard to these matters.

• The Relationship Between Church Policy and Secular Law. Very understandably, the current crisis has raised the concern of state officials who are responsible for the well-being of all Americans, particularly minors. In developing a policy on sexual abuse, however, the Church's concerns do not overlap entirely with those of the civil law; in some ways, they are more extensive. For example, American criminal law typically prohibits sexual conduct only between an adult and a minor under a certain age (often 16); the Church will be concerned about sexual conduct between priests and older teenagers and adults as well.

• Knowledge of the Law

• The relevant criminal law varies from state to state. Before developing a final national policy, we suggest collecting and analyzing the relevant state law, and developing a mechanism to ensure that each diocese is in compliance with it. Particular attention should be paid to the reporting requirements in effect in each jurisdiction with respect to cases of suspected sexual abuse.

• In many cases, the sexual involvement between a priest and an older teenager or adult will not violate applicable criminal law. It may, however, still be civilly actionable as either negligence or an intentional tort. Before a national policy is finalized, we suggest that a study of American tort law pertaining to sexual relationships in a professional context be undertaken. For example, some Church people might think that although a sexual relationship between a priest and an adult parishioner is immoral, it is not something with which the American legal system should concern itself. In recent decades, however, many professional societies have prohibited such conduct, on the ground that the disparity of power in the relationship inevitably compromises the freedom with which the nonprofessional enters

into it. American tort law has not been unreceptive to such claims.

• Recognizing the Different Concerns of Church and State

° In formulating a policy that interacts appropriately with the secular legal system, we believe it is important to remember that there are very different goals involved. For example, the goal of the criminal justice system is the punishment of wrongdoers; the goal of the tort system is to require the compensation of victims for their injuries. The goal of any sexual abuse policy adopted by the Church should not be inconsistent with those goals, but must extend far beyond them to encompass such goals as helping the victim to appreciate his or her worth in the eyes of God and the Church, preventing any further abuse, and helping the offender to repent and to seek any medical and psychological help that is necessary.

° Because of divergent goals, different levels of certainty regarding the existence and nature of the offence will be necessary before taking action in each arena. For example, the District Attorney will require a higher level of proof of offense before going forward with a criminal prosecution than the bishop should require before removing a priest from ministry.

° Lobbying efforts have already begun in some states to designate priests as mandatory reporters in cases of child abuse. Every diocese should take it upon itself, whether or not required by law, to report any current and future credible allegations of sexual abuse to civil authorities. In addition, it may be wise to take the initiative to promote legislation that makes priests mandatory reporters of child abuse and that provides full and proper protection for matters revealed under the seal of the confessional or in the internal forum of spiritual direction.

### • *Relationship Between Canon Law and Civil Law*

° We recognize that bishops are responsible to two very different legal systems in running their dioceses: civil law and canon law. Any effective sexual abuse policy will need to be responsible to the demands of both. It appears to us, unfortunately, that the demands of the respective legal systems may be in tension with each other on these matters, if not in outright conflict. It seems to use that it would be helpful to constitute a working group comprised of civil lawyers and canon lawyers (as well as persons competent in both fields) in order to identify and resolve these tensions and conflicts.

° We also recognize that the Vatican has a great interest in the successful and speedy resolution of this crisis. Unfortunately, some suggestions made by members of the Curia appear to us to presuppose a relationship between civil law and canon law that does not reflect the situation in the United States. Perhaps some way could be found of explicitly articulating the difference between American and Italian law on these matters, in order to minimize misunderstanding between Church officials in Rome and American Catholics.

### • **Creating a National Registry**

We recommend that the Conference study appropriate ways to create a national registry of every priest or religious found to have sexually abused a minor. The registry could be similar to the one that lists medical doctors found responsible for malpractice. Such a registry could contain only the name and the diocese of the priest without the details of the case, which would remain under the control of the diocese where the matter was handled. This registry would be under the administration and direction of the General Secretary of the United States Conference of Catholic Bishops and serve to centralize the names of priests found to have sexually abused a minor. All ordinaries would be able to access the information on a confidential and need to know basis and

thereby be assured that priests who may seek to serve in their dioceses do not have a record of abuse in another ecclesiastical jurisdiction. Registration of priests against whom there was a finding of abuse would be obligatory on the part of all ordinaries. (This registry, created by and run by the Conference, is intended to be separate from the independent National Policy Review Board that we also suggest.)

The limited sort of registry described above would provide information that is essential for a bishop to responsibly administer his diocese. However, a more comprehensive clearinghouse for information may also be desirable. IN the current crisis, the fact that we do not have comprehensive national data about the number of cases reported and substantiated, the number of victims involved, the type and extent of their personal injuries, and the disposition of the cases has made it more difficult to set the errors and misdeeds of some in the larger context of the Church, a context that has been largely lacking from press coverage. More importantly, accurate knowledge of the extent of the problem will be essential to fulfillment of the Church's ongoing responsibility to understand the root causes of the problem and to find solutions for them.

### EXERCISING STEWARDSHIP

In our view, an adequate response to the current crisis will also require reassessment of a number of the Church's operating policies and procedures regarding financial and legal matters. The Church's resources are not hers to do with as she wishes; she holds them in stewardship to assist in her tasks of preaching the Gospel, administering the sacraments and performing the corporal and spiritual works of mercy. The potential liability of the Church with respect to compensatory and punitive damages is staggering: one rough estimation of the amount paid out so far is \$300 million. It is possible that much more of the Church's funds will be dedicated in this manner before the crisis subsides. For poorer dioceses, this may mean bankruptcy; for those with more resources, it may require cutting back on essential services to the poor and

marginalized. This is a crisis of enormous proportions, not only for the Church, but also for those who rely on her help for their survival.

### • **Responding to the Immediate Crisis**

• Formation of a National Resource Team. Many Americans, including many American Catholics, perceive that the Church is one monolithic entity. We recognize that this is not the case, and that each diocese operates more or less autonomously. We also recognize that the American dioceses vary substantially in their structure and resources to deal with the immediate crisis. Some dioceses are experienced in handling sexual abuse claims, others are not. We suggest the formation of a national resource team, comprised of an experienced psychologist, a lawyer, and a media resource person, to offer assistance to any bishop who finds himself swept up in the immediate crisis.

• Coordinating Resources to Handle Broader Issues. In addition, we believe it would be helpful if a coordinated set of responses could be developed to deal with some of the features of the crisis that transcend particular cases. These include:

— Writing Amicus Briefs. In their understandable efforts to ensure that no American child is endangered by sexual abuse, some persons have put forward proposals that may violate or impinge upon the First Amendment of the American Constitution. We believe it would be helpful for lawyers experienced in Church-State issues to examine and critique these proposals, as well as to help formulate constitutionally acceptable ways of dealing with the crisis.

— Developing a Panel of Expert Witnesses. Under American negligence law, persons are held accountable for meeting the standard of care applicable at the time of the act in question. Given the broad time frame in which allegations of abuse occurred, we believe it is important to develop a panel of expert witnesses who can be available to dioceses faced with lawsuits to testify regarding the applicable standard

of care. This resource may be very important for the Church, because juries are frequently and understandably tempted to apply today's standards to incidents that happened long ago.

—Developing a Coordinated Media Response. No one can blame the media for uncovering and bringing to the attention of the American people incidents of child abuse. Unfortunately, this story is frequently told from a one-sided perspective. Many people are not aware, for example, of the measures taken by the bishops in the early 1990s to address this problem. Still fewer are aware of all the Church does to help children. We believe it would be helpful for the bishops to engage the assistance of persons experienced in media relations to ensure that the story told about the Church is as balanced as possible.

#### • Reviewing and Updating Corporate and Financial Structures

- Many dioceses were organized as corporations sole in the person of the bishop. All the assets of the dioceses were held together in an undifferentiated way, in the same legal corporation. Consequently, all the assets are available to satisfy tort judgments in favor of victims of sexual abuse, including large punitive damage awards. It is, of course, important to fairly compensate such victims. It is also important, however, to ensure that the charitable work of the diocese continues so that the poorest among us do not pay for the Church's sins.

- It may be wise to consider establishing a national fund for the equitable compensation of victims of sexual abuse across the country. The establishment of a fair and open mechanism to compensate victims might ameliorate the spate of lawsuits. Because tort lawyers often take 40 percent of the amount their client is awarded in damages, a large amount of money that the Church pays out in these instances does not actually go to the victims. Such a fund could be analogous to similar funds created in product liability and mass tort settings.

#### SEEKING WISDOM

Finally, we believe that it is important to recognize that the crisis offers us both a challenge and an opportunity. Although psychiatrists, psychologists, and geneticists are expanding our understanding of human psychosexual development on a daily basis, there is much that we still do not know. As human knowledge progresses in this area, the Church will face the task of integrating that knowledge with its own long tradition of moral wisdom and spiritual formation. That task will not be easy; at times, it will no doubt be threatening and uncomfortable. Nonetheless, it cannot be avoided. Moreover it must be undertaken in the strong belief that the wisdom of secular disciplines and the wisdom of the Church will not in the end be contradictory, because the God who creates and the God who redeems are one and the same.

Trusting in the guidance of the Holy Spirit, we believe that as a Church we should undertake the exploration of a number of issues, some short-term and some long-term, aimed at both gathering knowledge and seeking deeper wisdom. We suggest the following for consideration.

A Comprehensive Study of the Causes and Context of the Current Crisis. In addition to providing assistance with issues arising in the process of creating and improving a sexual abuse policy, the National Policy Review Board (suggested in the Restoring Trust segment of this paper) could be charged with preparing a complete report on the past history of sexual abuse by priests and religious in the Catholic Church in the United States and its handling by the Church, including the changes in policies and procedures over time, as well as the changing faces of diagnosis and treatment. The report would not only take an unflinching look at the errors of the past, but would also make clear the full range of abuse complaints, the variety of possible disorders involved in abuse, the confusion that often exists concerning treatment and outcomes, the new approaches being taken in seminary admissions and formation and priestly formation, and even the possibility of and examples of rehabilitation and

amendment of lives. The report could thus serve both to acknowledge forthrightly the past errors and misdeeds of the Church and, at the same time, to set those errors and misdeeds in a context that has been largely lacking from press coverage of the world.

Psychological Research. Basic research concerning psychological issues should be undertaken. For example, what are the implications of a diagnosis of a personality disorder (e.g., narcissism, antisocial personality, or borderline personality disorder) compared to a diagnosis of a priest with unintegrated sexuality? How effective is psychological treatment? Apparently the limited data available on treatment outcomes for religious persons has only a three-year scope. A longer perspective would be useful. How do treatment outcomes differ with ephebophiles as compared with pedophiles? What can be learned by comparing lay forensic sex offenders who have been diagnosed with pedophilia with clerical pedophiles? A comparison of the psychological screening data garnered prior to admission to seminary from clergy who have been sexually abused children or adolescents with the data from those who have not been abused, could yield useful information.

Study of Proposals for Reform of the Priesthood. There have been a number of calls for reform of the priesthood. Some have called for the abolition of clerical celibacy. Others have blamed the current crisis on homosexuality in the priesthood and called for a return to a more closed, more disciplined, more self-consciously ascetic seminary formation in the context of a less permissive sexual morality. We do not believe that we have explored either of these issues sufficiently to know whether such reforms would actually address the issue. Disciplined and organized exploration of these issues may be appropriate.

Legal Scholarship. In addition, we believe that there is a need for additional legal scholarship on such issues as whether, under the First Amendment, our civil government has or does not have authority to tell the

Church how to select and train priests, and to what extent fiduciary law applies to the Church.

In pursuit of these questions, and others, we willingly offer the resources of the University of Notre Dame.

In all of this, we must proceed as people of faith seeking understanding.

## CONCLUSION

In this paper we have offered our sense of the challenges currently facing you as our bishops, and we have offered some concrete suggestions that we believe might be helpful. We realize that many people will be offering you advice and urging you to take certain actions. We offer our voice in a spirit of humility and prayerful hope that in it you might find some useful ideas.

In closing we offer a reflection about holiness and its relation to scandal. Scandal is always public, by definition. Holiness is often hidden, and often even seeks to hide itself. Holiness may be, and often is, attached to the normal in seemingly humdrum ways. Spouses may be heroically faithful to each other and to the care of their children, yet it yields only what looks to be a "normal" life. The Sisters of Zion in Jerusalem day in and day out take care of brain-damaged babies of Palestinians and Israelis alike, babies whose only progress in life as they get older is that they need larger diapers and can perhaps learn to blink. No one notices. Not to mention the majority of good priests who pour themselves out in loving and idealistic service to those souls entrusted to their care. In reacting to a scandal, it is wise to remember that our own proclivity to overlook and downplay the goodness which would challenge us is itself a liability. For it is only by looking at that goodness, by acquiring the habit of noticing it, that we will find the inspiration and the courage to reimagine a future for the Church beyond the current crisis.

Respectfully submitted,

Carol Ann Mooney, Chair  
*Professor of Law and Vice President and Associate Provost*

R. Scott Appleby  
*Professor of History and Director of the Institute for International Peace Studies*

John Borkowski

*Andrew J. McKenna Chair of Psychology*

John Cavadini

*Associate Professor and Chair of the Department of Theology*

Rev. John Jenkins, C.S.C.

*Associate Professor of Philosophy and Vice President and Associate Provost*

M. Cathleen Kaveny

*John P. Murphy Foundation Chair in Law*

Dennis Moore

*Associate Vice President for Public Affairs and Communication*

Patricia O'Hara

*The Joseph A. Matson Dean of the Law School*

Rev. Mark Poorman, C.S.C.

*Associate Professor of Theology and Vice President for Student Affairs*

Robert Schmuhl

*Professor of American Studies*

Rev. Richard Warner, C.S.C.

*Counselor to the President and Director of Campus Ministry*

## Additions and Corrections

In issue 18 of volume 31, **Joseph P. Bauer** was incorrectly referred to as a professor of electrical engineering. He is a professor of law.

# Office of Research

## Awards and Proposal Summary

07/01/2002 to 07/31/2002

### Awards Received

Category	No.	Amount
Research	33	\$8,352,420
Instructional Programs	2	\$268,133
<b>Total:</b>	<b>35</b>	<b>\$8,620,553</b>

### Proposals Submitted

Category	No.	Amount
Research	47	\$14,578,052
Instructional Programs	1	\$10,000
<b>Total:</b>	<b>48</b>	<b>\$14,588,052</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, which 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 "research2@nd.edu" or 1-4670 if you are aware of any proposals or awards that have not been properly credited to a center or institute.

## July 2002 Cumulative summary

### Awards Received

Category	07.01.2000 - 07.31.2000		07.01.2001 - 07.31.2001		07.01.2002 - 07.31.2002	
	No.	Amount	No.	Amount	No.	Amount
Research	38	\$6,095,499	43	\$3,915,328	33	\$8,352,420
Facilities and Equipment						
Instructional Programs	1	\$1,144	2	\$131,583	2	\$268,133
Other Programs	1	\$25,000				
Service Programs						
<b>Total:</b>	<b>40</b>	<b>\$6,121,643</b>	<b>45</b>	<b>\$4,046,911</b>	<b>35</b>	<b>\$8,620,553</b>

### Proposals Submitted

Category	07.01.2000 - 07.31.2000		07.01.2001 - 07.31.2001		07.01.2002 - 07.31.2002	
	No.	Amount	No.	Amount	No.	Amount
Research	39	\$19,023,510	37	\$14,247,289	47	\$14,578,052
Facilities and Equipment						
Instructional Programs	1	\$11,500			1	\$10,000
Other Programs						
Service Programs						
<b>Total:</b>	<b>40</b>	<b>\$19,035,010</b>	<b>37</b>	<b>\$14,247,289</b>	<b>48</b>	<b>\$14,588,052</b>

## Awards Received

July 1, 2002, through July 31, 2002

### Awards for Research

#### Aerospace and Mechanical Engineering

**Renaud, John E.**

Managing Uncertainty in Bi-level Robust Design Optimization

National Science Foundation

\$12,000

36 months

#### Anthropology

**Kuijt, Ian**

Social and Economic Context of Early Neolithic Villages

National Science Foundation

\$189,231

48 months

#### Biological Sciences

**Besansky, Nora J. (Center or Institute)**

Genetics of *Anopheles Funestus* Populations

National Institutes of Health

\$378,528

48 months

**Lamberti, Gary A.; Bridgham, Scott D.; Maurice, Patricia**

Interactive Effects of Climate Change, Wetlands, and Dissolved Organic Matter on UV Damage to Aquatic Foodwebs

Environmental Protection Agency

\$895,308

36 months

**Collins, Frank H. (Center or Institute)**

The *Anopheles gambiae* Genome Project

National Institutes of Health

\$1,363,735

12 months

**McDowell, Mary A. (Center or Institute)**

IL-12 in Leishmania Infected Human Dendritic Cells

National Institutes of Health

\$161,234

24 months

**Severson, David William**

RFLP Mapping of Plasmodium Refractory Genes in Mosquitoes

National Institutes of Health

\$282,150

36 months

#### Chemical Engineering

**Brennecke, Joan F.**

Travel Funds to EQUIFASE 2002

National Science Foundation

\$16,990

12 months

#### Chemistry and Biochemistry

**Castellino, Francis; Gutiérrez, Linda S. (Center or Institute)**

Structure-Function Studies of Plasminogen and Plasmin

National Institutes of Health

\$494,288

24 months

**Castellino, Francis; Gutiérrez, Linda S. (Center or Institute)**

Structure-Function Studies of Plasminogen and Plasmin

National Institutes of Health

\$19,172

36 months

**Huber, Paul W.**

Localization of Vgl mRNA

Private Foundation

\$54,712

24 months

#### Civil Engineering and Geological Sciences

**Gray, William G.; Irvine, Robert L.**

GAANN for Computational Geology

Department of Education

\$115,668

12 months

**Kareem, Ahsan**

Full-Scale Study of the Behavior of Tall Buildings Under Winds

National Science Foundation

\$76,964

36 months

**Bunker, Bruce A.; Fein, Jeremy B.; Maurice, Patricia A.**

Controls on Molecular-Scale Microbial Responses to Metals:

Interactions of Bacteria with Metals, and Environmental Nanoparticles

Department of Energy

\$121,044

40 months

**Kulpa, Charles F.; Neal, Clive R. (Center or Institute)**

Platinum-Group Element Pollution from Automobile

Catalytic Converters: Investigation of Accumulation and Transport Processes

Private Foundation

\$80,000

26 months



**Spencer, Billie F.**

3-D Shaking Table Investigation of Methodology for Analysis  
The George Washington University  
\$48,258 36 months

**Spencer, Billie F.**

Java-Based Virtual Laboratory  
Multidisciplinary Center for Earthquake Engineering  
Research  
\$39,000 48 months

**Westerink, Joannes J.**

Hydrodynamic Modeling of Flooding Events in Southern  
Louisiana  
Louisiana State University  
\$72,000 48 months

**Westerink, Joannes J.**

ADCIRC Model for Shelves, Coasts and Estuaries to the Texas  
Gulf Coast  
Private Foundation  
\$20,000 13 months

**Engineering****Incropera, Frank P.; Cunningham, Robert J.**

Nanotechnology Engineering Center at the University of  
Notre Dame  
Department of Energy  
\$2,908,000 56 months

**Computer Science and Engineering****Chen, Danny Z.; Hu, Xiaobo**

System-Level Approaches to Reducing Energy Consumption  
in Real-Time Embedded System Design  
National Science Foundation  
\$59,906 24 months

**Maurice, Patricia; Madey, Gregory R.**

ITR/AP(BES) Stochastic Synthesis: Simulating the  
Environmental Transformations of Natural Organic Matter  
National Science Foundation  
\$40,760 24 months

**Economics****Sent, Esther-Mirjam**

Simulating Herbert Simon  
Netherlands Institute for Advanced Study  
\$24,978 10 months

**Electrical Engineering****Costello, Daniel J.; Rosenthal, Joachim J.; Massey, Peter C.; Fuja, Thomas E.**

ITR Collaborative Research: Toward Practical Graph-Based  
Coding Schemes for Reliable Wireless Communications  
National Science Foundation  
\$405,068 47 months

**Lemmon, Michael D.**

Algorithmic Verification and Synthesis of Hybrid Control  
Systems  
National Science Foundation  
\$51,758 36 months

**Antsaklis, Panos J.; Hu, Xiaobo; Lemmon, Michael D.**

Performance Based Soft Real-Time Scheduling in Networked  
Control Systems  
National Science Foundation  
\$80,000 24 months

**Merz, James L.**

Collaborative Linkage  
North Atlantic Treaty Organization  
\$1,568 12 months

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

Mixed Signal Nanoelectronics  
Department of Navy  
\$160,000 48 months

**Mathematics****Williams, Edward B.; Taylor, Laurence R.; Dwyer, William G.**

Algebraic and Geometric Topology  
National Science Foundation  
\$59,600 36 months

**Physics****Barabási, Albert-László**

Dynamics of Complex Networks  
National Science Foundation  
\$46,000 36 months

**Political Science****Scully, Timothy R. (Center or Institute)**

ACE FY00/01  
Corporation for National Service  
\$66,000 36 months

**Program of Liberal Studies****Sloan, Phillip R.**

Doctoral Dissertation Research: The Vestiges of Creation and  
Pre-Darwinian Evolutionary Debates in America

National Science Foundation

\$8,000

12 months

**University Libraries****Bayard, Laura A.**

Diversity Grant

Private Foundation

\$500

12 months

Awards for Instructional Programs**Chemistry and Biochemistry****Morris, Karen M.**

K-12 Science Curriculum Dissemination Center  
Corporation

\$25,000

45 months

**Mathematics****Borelli, Mario (Center or Institute)**

CANDAX-ME McNair

Department of Education

\$243,133

48 months

**Proposals Submitted**

July 1, 2002, through July 31, 2002

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

CAREER: Agility in Legged Locomotion

National Science Foundation

\$473,036

60 months

**Jumper, Eric J.**

Active Flow Control for Tactical Optical Weapons Systems

Corporation

\$35,200

12 months

**Niebur, Glen L.**

CAREER: Anisotropy of Microscopic and Macroscopic  
Damage in Cancellous Bone

National Science Foundation

\$490,067

60 months

**Roeder, Ryan K.**

Toward Viable Scaffolds for Hard Tissue Engineering

Private Foundation

\$240,000

36 months

**Skaar, Steven B.**

Autonomous and Precise 3D Positioning for Panel  
Engagement

Corporation

\$18,000

6 months

**Anthropology****Van Hollen, Cecilia C.**

AIDS, Medicine, and Gender in India: How Pregnant Women  
Negotiate Options to Prevent Mother-to-Child Transmission  
of HIV in Tamil Nadu, India

Private Foundation

\$19,050

9 months

**Biological Sciences****Boyd, Sunny K.**

Neuropeptide Modulation of a Vocal Motor Pathway

National Science Foundation

\$489,981

48 months

**Collins, Frank H.**

Experimental Parasitology and Vector Biology

National Institutes of Health

\$117,796

12 months

**D'Souza-Schorey, Crislyn**

Regulation of Cell Migration

National Institutes of Health

\$347,000

12 months

**Hinchcliffe, Edward H.**

CAREER: Centrosomes and Cell Cycle Regulation

National Science Foundation

\$502,908

60 months

**McKee, Edward E.**

Mitochondrial Uptake and Metabolism of Nucleoside Analog  
Reverse Transcriptase Inhibitors and Mitochondrial  
Toxicity

I.U. School Medicine

\$110,000

24 months

**McKee, Edward E.**

Mitochondrial Uptake and Metabolism of Nucleoside Analog  
Reverse Transcriptase Inhibitors and Mitochondrial  
Toxicity

I.U. School Medicine

\$214,500 36 months

**Olson, Kenneth R.**

Developing a Non-Mammalian Model for the Study of  
Hypoxic Vasoconstriction

I.U. School Medicine

\$71,000 24 months

**Schorey, Jeffrey S.**

MAPK Signaling in Mycobacteria Infected Macrophages  
National Institutes of Health

\$289,240 12 months

**Shay, Neil F.**

An In-Vivo Approach to Examine Interactions Between Soy  
Protein Intake and Cholesterol-Lowering Drugs

Private Foundation

\$214,500 36 months

**Vaughan, Kevin T.**

Regulation of Cytoplasmic Dynein Function During Platelet  
Activation

Private Foundation

\$29,000 24 months

**Welsh, JoEllen J.; Tenniswood, Martin**

Prostate Cancer, Calcium and Vitamin D

National Institutes of Health

\$371,250 12 months

**Center for Transgene Research****Wilberding, Julie A.**

The Fibrinolytic System as a Determinant in Vascular  
Remodeling - A Mechanistic Analysis

Private Foundation

\$247,500 36 months

**Chemical Engineering****McGinn, Paul J.**

Crystal Growth and Characterization of Microwave  
Dielectrics

National Aeronautics and Space Administration

\$609,725 48 months

**Miller, Albert E.**

High Performance Imaging Devices for Space Based  
Reconnaissance

West Virginia University

\$40,000 9 months

**Ostafin, Agnes E.**

CAREER: Nanoshell Bioengineering

National Science Foundation

\$702,605 60 months

**Ostafin, Agnes E.**

The Cytoskeleton of Aging Erythrocytes

National Institutes of Health

\$74,250 12 months

**Chemistry and Biochemistry****Clark, Patricia L.**

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

National Science Foundation

\$831,074 60 months

**Clark, Patricia L.**

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

Private Foundation

\$247,500 36 months

**Clark, Patricia L.**

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

Private Foundation

\$260,000 48 months

**Hartland, Gregory V.**

Material Properties of Nanospheres and Nanorods Studied by  
Time-Resolved Spectroscopy

National Science Foundation

\$339,455 36 months

**Kandel, S.A.**

CAREER: Chemical Reactions of Energetic Radicals with  
Surfaces

National Science Foundation

\$512,457 60 months

**Nowak, Thomas**

Subunit-Subunit Interactions as the Basis of the Regulation of  
Pyruvate Kinase Activity

Private Foundation

\$214,500 36 months

**Nowak, Thomas**

Subunit-Subunit Interactions as the Basis of the Regulation of  
Pyruvate Kinase Activity

Private Foundation

\$110,000

24 months

**Taylor, Richard E.**

Design and Synthesis of Epothilone Analogs  
Corporation

\$150,000

0 months

**Wiest, Olaf G.**

Structure, Reactivity and Selectivity of Hydrocarbon Radical  
Cations

National Science Foundation

\$478,882

48 months

**Civil Engineering and Geological Sciences****Kareem, Ahsan**

Characterization, Modeling and Simulation of Transient  
Hurricane Loads

University of Florida

\$55,000

12 months

**Talley, Jeffrey W.**

Thermal Programmed Desorption Mass Spectrometry of  
Tetryl and Related Nitroaromatics

U.S. Army Corps of Engineers

\$109,629

14 months

**Talley, Jeffrey W.**

CAREER: Biostabilization of Hydrophobic Organic  
Compounds (Hocs)

National Science Foundation

\$599,480

60 months

**The Classics****Afsaruddin, Asma**

Striving in the Path of God: Discursive Traditions on Jihad  
and the Cult of Martyrdom

Private Foundation

\$29,640

12 months

**Computer Science and Engineering****Bowyer, Kevin W.**

CAREER: Resilient Energy Aware Network Mechanisms for  
Mobile Multimedia

National Science Foundation

\$407,630

60 months

**Scheutz, Matthias J.**

Affective Agent Architectures for Autonomous Agents

National Science Foundation

\$590,247

60 months

**Economics****Ghilarducci, Teresa; Lee, Mary J.**

Low Wage Labor Markets and Pensions and Health Insurance

U.S. Department of Labor

\$12,500

12 months

**Electrical Engineering****Haenggi, Martin**

CAREER: Modeling and Analysis of Ad Hoc Wireless  
Networks

National Science Foundation

\$497,607

60 months

**Snider, Gregory L.**

Fabrication of Nanoscaled Systems

University of Virginia

\$139,633

36 months

**Freimann Animal Care Facility****Suckow, Mark A.; Jain, Jinesh C.; Pollard, Morris**

Defining Nutritional Molecular Targets in Vivo

National Institutes of Health

\$309,875

12 months

**Mathematics****Barron, Katrina D.**

CAREER: Algebraic and Geometric Aspects of  
Superconformal Field Theory

National Science Foundation

\$655,366

60 months

**Nicholls, David P.**

CAREER: Stable High Order Perturbation Methods in Fluid  
Mechanics, Acoustics, and Electromagnetics

National Science Foundation

\$505,430

60 months

**National Consortium for Graduate Degrees for  
Minorities, Engineering and Science****Johnson, Sandra D.; Jones, DiOnetta**

GEM/NSF Faculty Enhancement Project

National Science Foundation

\$779,206

60 months

### Physics

**Balsara, Dinshaw S.**

CAREER: Proposal to Develop Adaptive MHD and Simulate  
Pre-Stellar Cores While Including Radiative Diagnostics

National Science Foundation

\$918,287

60 months

### Political Science

**McAdams, A.J.; Fishman, Robert M.; Messina, Anthony M.**

The Year of the Euro

European Union in the U.S.

\$14,676

1 months

**Welna, Christopher J.**

National Resource Center

Indiana University Bloomington

\$103,370

12 months

### Proposals for Instructional Programs

### Electrical Engineering

**Porod, Wolfgang**

Second International Workshop on Quantum Dots for  
Quantum Computing and Classical Size Effect Circuits  
(IWQDQC)

Department of Navy

\$10,000

12 months

## **Awards and Proposal Summary**

### **Centers and Institutes Report**

07/01/2002 to 07/31/2002

#### **Awards Received**

Department or Office	No.	Amount
Alliance for Catholic Education	1	\$66,000
Center for Environmental Science and Technology	1	\$80,000
Center for Transgene Research	2	\$513,460
Center for Tropical Disease Research & Training	3	\$1,903,497
Nano Science and Technology Center	1	\$160,000
TRIO Programs	1	\$243,133
<b>Total:</b>	<b>9</b>	<b>\$2,966,090</b>

#### **Proposals Submitted**

Department or Office	No.	Amount
Center for Astrophysics	1	\$918,287
Center for Flow Physics and Control	1	\$35,200
Center for Molecularly Engineered Materials	2	\$683,975
Center for Tropical Disease Research & Training	1	\$117,796
Freimann Life Science Center	1	\$309,875
Higgins Labor Research Center	1	\$12,500
Kellogg Institute for International Studies	1	\$103,370
Nano Science and Technology Center	2	\$149,633
Nanovic Institute	1	\$14,676
South Bend Center for Medical Education	3	\$395,500
Walther Cancer Institute	2	\$397,500
<b>Total:</b>	<b>16</b>	<b>\$3,138,312</b>

*\*The figures attributed to centers/institutes in these reports are also included in the general reports for all awards and proposals. However, they are listed under the department of the Principal Investigator rather than the center, institute, lab, or significant University program.*

## Awards Received

For the period July 1, 2002, through July 31, 2002

### Awards for Research

#### **Alliance for Catholic Education**

ACE FY00/01

Corporation for National Service

\$66,000 36 months

#### **Center for Environmental Science and Technology**

Platinum-Group Element Pollution from Automobile

Catalytic Converters: Investigation of Accumulation and Transport Processes

Private Foundation

\$80,000 26 months

#### **Center for Transgene Research**

Structure-Function Studies of Plasminogen and Plasmin

National Institutes of Health

\$494,288 24 months

Structure-Function Studies of Plasminogen and Plasmin

National Institutes of Health

\$19,172 36 months

#### **Center for Tropical Disease Research and Training**

The Anopheles gambiae Genome Project

National Institutes of Health

\$1,363,735 12 months

Genetics of Anopheles Funestus Populations

National Institutes of Health

\$378,528 48 months

IL-12 in Leishmania Infected Human Dendritic Cells

National Institutes of Health

\$161,234 24 months

#### **Nano Science and Technology Center**

Mixed Signal Nanoelectronics

Department of Navy

\$160,000 48 months

## Awards for Instructional Programs

### **TRIO Programs**

CANDAX-ME McNair

Department of Education

\$243,133 48 months

## Proposals for Research

For the period July 1, 2002, through July 31, 2002

### Proposals for Research

CANDAX-ME McNair

Department of Education

\$243,133 48 months

#### **Center for Astrophysics**

CAREER: Proposal to Develop Adaptive MHD and Simulate Pre-Stellar Cores While Including Radiative Diagnostics

National Science Foundation

\$918,287 60 months

#### **Center for Flow Physics and Control**

Active Flow Control for Tactical Optical Weapons Systems

Corporation

\$35,200 12 months

#### **Center for Molecularly Engineered Materials**

The Cytoskeleton of Aging Erythrocytes

National Institutes of Health

\$74,250 12 months

Crystal Growth and Characterization of Microwave Dielectrics

National Aeronautics and Space Administration

\$609,725 48 months

#### **Center for Tropical Disease Research and Training**

Experimental Parasitology and Vector Biology

National Institutes of Health

\$117,796 12 months

#### **Freimann Life Science Center**

Defining Nutritional Molecular Targets in Vivo

National Institutes of Health

\$309,875 12 months



**Higgins Labor Research Center**

Low Wage Labor Markets and Pensions and Health Insurance  
 U.S. Department of Labor  
 \$12,500 12 months

**Kellogg Institute for International Studies**

National Resource Center  
 Indiana University Bloomington  
 \$103,370 12 months

**Nano Science and Technology Center**

Fabrication of Nanoscaled Systems  
 University of Virginia  
 \$139,633 36 months

**Nanovic Institute**

The Year of the Euro  
 European Union in the U.S.  
 \$14,676 1 months

**South Bend Center for Medical Education**

Developing a Non-Mammalian Model for the Study of  
 Hypoxic Vasoconstriction  
 I.U. School Medicine  
 \$71,000 24 months

Mitochondrial Uptake and Metabolism of Nucleoside Analog  
 Reverse Transcriptase Inhibitors and Mitochondrial  
 Toxicity  
 I.U. School Medicine  
 \$110,000 24 months

Mitochondrial Uptake and Metabolism of Nucleoside Analog  
 Reverse Transcriptase Inhibitors and Mitochondrial  
 Toxicity  
 I.U. School Medicine  
 \$214,500 36 months

**Walther Cancer Institute**

Design and Synthesis of Epothilone Analogs  
 Corporation  
 \$150,000 0 months

The Fibrinolytic System as a Determinant in Vascular  
 Remodeling - A Mechanistic Analysis  
 Private Foundation  
 \$247,500 36 months

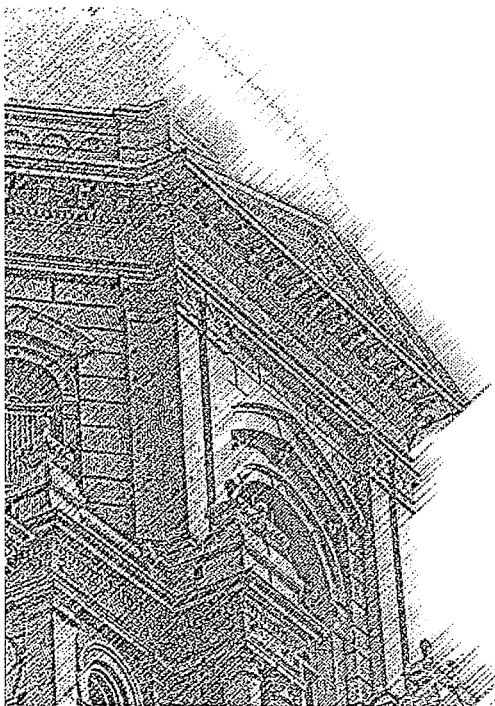
Proposals for Instructional Programs**Nano Science and Technology Center**

Second International Workshop on Quantum Dots for  
 Quantum Computing and Classical Size Effect Circuits  
 (IWQDQC)  
 Department of Navy  
 \$10,000 12 months

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# Notre Dame Report

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