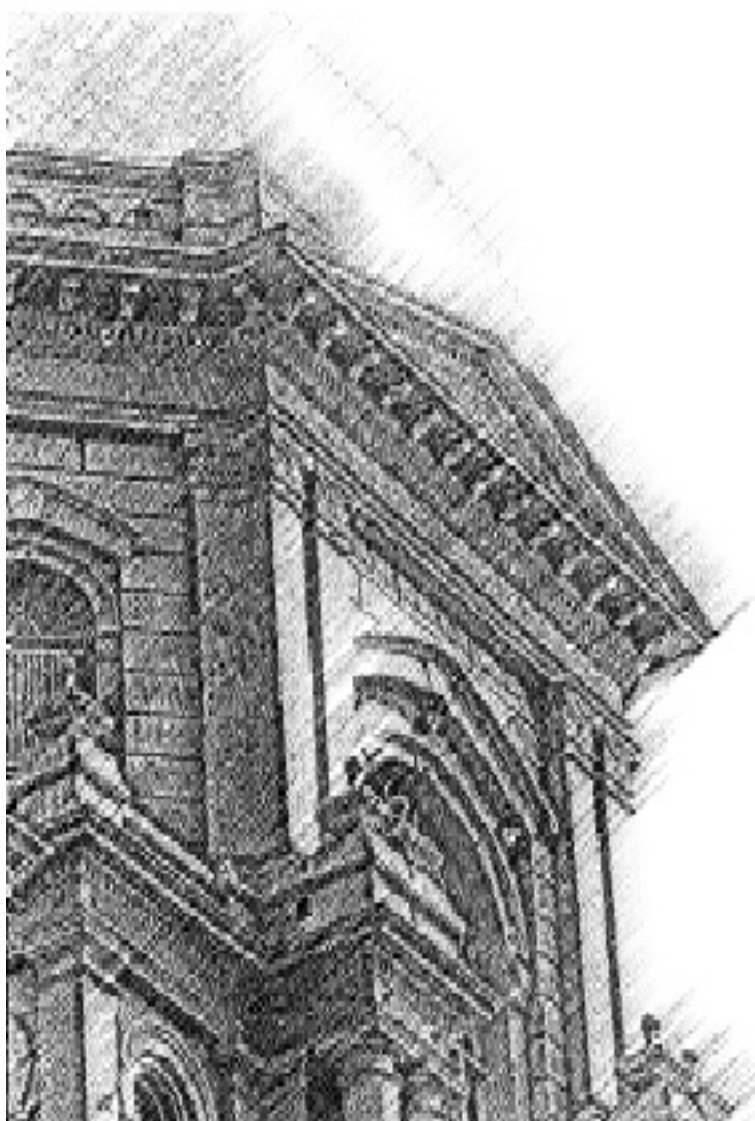


Notre Dame Report



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Faculty Notes

Honors

Ani Aprahamian, professor and chair of the Dept. of Physics, was elected to the executive committee of the APS Division of Nuclear Physics, 2005, and was appointed vice chair of the selection committee for the Physical Society's Tom W. Bonner Prize through December 2007.

Albert-Lászlo Barabási, the Hofman Professor of Physics, was awarded the 2005 Federation of European Biochemical Societies Anniversary Prize for Systems Biology for his contributions to understanding cellular networks.

Lawrence S. Cunningham, the O'Brien Professor of Theology, received an honorary Doctor of Letters from Bellarmine Univ. (Louisville) on Dec. 14, when he also presented the commencement address.

Morten R. Eskildsen, assistant professor of physics, received the Alfred P. Sloan Research Fellowship, 2005–2007.

Richard W. Garnett, associate professor of law and Fellow of the Institute for Educational Initiatives, is chair-elect of the Section on Law and Religion of the American Association of Law Schools, and was named to the Center Committee of the Christian Legal Society's Center for Law and Religious Freedom.

Maxwell Johnson, professor of theology, was appointed to a three-year term as convener at the "Problems in the Early History of Liturgy Seminar," North American Academy of Liturgy, San Diego, Jan. 5–8.

Rev. Edward Malloy, CSC, President Emeritus and professor of theology, was reappointed to the board of governors of the University of Notre Dame Australia.

Timothy Matovina, the Cushwa Director of the Cushwa Center for the Study of American Catholicism and associate professor of theology, was named associate editor for religion for *America: An Encyclopedia* (Routledge).

Joseph A. Prahlow, MD, guest associate professor of biological sciences, was elected vice president of the National Association of Medical Examiners for 2006.

Activities

Albert-Lászlo Barabási, the Hofman Professor of Physics, presented "The Architecture of Complexity: From the WWW to the Cell" for the American Academy for the Advancement of Science's annual meeting, Washington, D.C., Feb. 20, 2005; "Network Biology: From Protein Interactions to the Metabolic Network" at the Dana-Farber Cancer Institute, Center for Cancer Systems Biology, Boston, Mar. 24; "The Architecture of Complexity: From the Cell to the World Wide Web and from Budapest to Indiana" at the Indiana Univ.-Bloomington Dept. of Central Eurasian Studies international symposium "Creativity, Mind, and Brain in Hungarian Scholarship Past and Present," April 2; "Network Biology: From the Metabolism to Protein Interactions" at the Keystone Symposium "Systems Biology," Keystone, Colo., April 9; "The Architecture of Complexity: Bose-Einstein Condensation in Networks" at the Israel Academy of Sciences and Humanities "Albert Einstein Legacy—A One Hundred Years Perspective," Jerusalem, April 13; "The Architecture of Complexity: the Structure and Dynamics of Complex Networks" at Bar-Ilan Univ., Israel, April 14; "Error and Attack Tolerance of Complex Electronic, Social and Biological Networks" for the NATO Advanced Study Institute, Dept. of Physics Institute for Energy Technology (IFE) "Dynamics of Complex Interconnected Systems: Networks and Bioprocesses" Geilo, Norway, April 18; "Network Biology: From Protein Interactions to Antibiotics" at the International Centre for Genetic Engineering and Biotechnology, Trieste, Italy, May 20; "From the Cell to the Web" and workshop lecture "Human Dynamics" at the Abdus Salam International

Centre for Theoretical Physics "Workshop on Structure and Function of Complex Networks," Trieste, Italy, May 23; "The Architecture of Complexity: The Structure and the Dynamics of Networks, from the Web to the Cell" at the "14th Annual Conference of the North American Association for Computational Social and Organizational Science," Notre Dame, June 27; "Network Biology: From the Metabolism to Protein Interactions" at the "2005 FEBS Congress and IUBMB Conference," Budapest, Hungary, July 6; "The Architecture of Complexity: From Web to the Economy" at the "Conference on Evolutionary Network Analysis," Andrassy Univ., Budapest, July 7; "The Topology of Complex Networks: From Scale-Free to Hierarchical Architectures" at "Les Houches 2005: Mathematical Statistical Physics," France, July 20; "Scale-Free Networks," a program for the NWICG Workshop, Notre Dame, Aug. 17; "The Architecture of Complexity: The Structure and the Dynamics of Networks, From the Web to the Cell" at "Knowledge Discovery and Data Mining 2005," Chicago, Aug. 24; the keynote address "Network Biology: Understanding the Structure of Metabolic and Protein Interaction Networks" at the "Second US-EU Workshop: Systems Level Understanding of DNA Damage Responses," Session I 4, Stowe, Vt., Sept. 30–Oct. 4; "Behalozva," a broadcast on national television for the "Mindentudás Egyeteme," Budapest, Oct. 10, 2005; "Behalozva," the plenary address, at the "Internet Hungary Conference," Tihany, Hungary, Oct. 11; "Understanding Human Communication Networks" at the KDD Conference "Communication Patterns in Social Networks," McLean, Va., Nov. 1–2; "Network Biology: Understanding the Cell's Network Architecture" at the 2005 Boston Angiogenesis meeting, Nov. 18; "Network Biology: From Protein Interactions to Diseases," the annual biostatistics lecture, at Harvard Univ. Dana Farber Cancer Institute, Nov. 28; "Network Biology," "Network Biology" at the "Fifth Annual ORFeome Meeting: ORFeomes and Systems," Harvard Univ., Nov. 30; "From Linked to Network Biology," a "Fireside Chat Lecture," Harvard, Dec. 14; and "The Nature of Time in Complex Networks" at the "94th Statistical Mechanics Meeting," Piscataway, N.J., Dec. 20.

Ikaros S. Bigi, the Grace-Rupley Professor of Physics, presented the invited lecture "The CKM Paradigm—From an Ansatz to a Tested Theory or: Hadronization—The Hero Rather than the Villain in the Tale of CP Violation" at the "Exotic States: Challenges for QCD" conference in Bad Honnef, Germany, Jan. 17–21, 2005; "The Snake Biting Its Tale—Fundamental Physics and the Universe" at "McMullin Fest," Notre Dame, in April; four "Orsay Lectures" on "The Tale of a Theory" at LAL, Univ. Paris-Sud, Orsay, France, in May; "On the Theoretical Treatment of Semileptonic B Decays" at the "WIN056—20th International Workshop on Weak Interactions and Neutrinos" in Delphi, Greece, in June; a series of five lectures on "CP Violation from Quarks to Leptons" at the International School of Physics, Varenna, Italy, in July; an HEP seminar "Hadronization—the Hero Rather than the Villain in the Tale of CP Violation" at LNF Frascati, Italy, in July; a series of four lectures at the International Summer School on High Energy Physics, Beijing; an invited plenary lecture on "Hadronization—The Unsung Hero Rather than the Alleged Villain in the Tale of CP Violation" at "Hadron 05—XI International Conference on Hadron Spectroscopy" in Rio de Janeiro, in August; an HEP seminar on "Who Needs Hadronic Collider Experiments for B Physics?" at CBPF, Rio de Janeiro, in August; an invited plenary lecture on "Exploring CP Violation—At the Beginning of an Exciting Journey" at the "ICFP 2005—3rd International Conference on Flavor Physics" in Jungli, Taiwan, in October; an HEP colloquium on "The Beauty of the Brown Muck—News from the Heavy Quark Expansion" at National Taiwan Univ., Taipei, in October; two invited plenary lectures on "Charm Dynamics as a Window onto New Physics" and "On the Magic of T Odd Moments" at "Flavour in the Era of the LHC—A Workshop on the Interplay of Flavour and Collider Physics" at CERN, Geneva, Switzerland, in November; and a theory seminar on "Lessons on QCD's Nonperturbative Dynamics—News from the Heavy Quark Expansion" at LPT, Univ. Paris-Sud, Orsay, in November.

David E. Campbell, assistant professor of political science and Fellow of the Institute for Educational Initiatives, presented "Religious Coalitions For and Against Gay

Marriage: The Culture War Rages On" at the annual meeting of the Southern Political Science Association, Atlanta, Jan. 6; "Is America a House Divided? What Social Science Has to Say about the Culture War" at the annual meeting of the Association of American Law Schools, Washington, D.C., Jan. 7; and "The Religion Card: Gay Marriage in the 2004 Election" at "The Wartime Election of 2004," a conference sponsored by the Mershon Center at Ohio State Univ., Jan. 14.

Daniel M. Chipman, professional specialist in the Radiation Laboratory and concurrent professor of chemistry and biochemistry, presented a seminar on research titled "Dielectric Continuum Models for Quantum Chemistry" at the Univ. of Kentucky, Lexington, Feb. 1.

Paul M. Cobb, associate professor of history and Fellow, the Medieval Institute, conducted a two-day seminar on "Crusade and Jihad" at the Newberry Library in Chicago, Feb. 1–2, as part of Newberry's "Teachers as Scholars" program.

Philippe Collon, assistant professor of physics, presented "The Problems of Background Reduction for Noble-Gas AMS in ECR Sources," an invited talk, at the "Tenth International Conference on Accelerator Mass Spectrometry," Univ. of California, Berkeley, Sept. 5–10.

Michael S. Driscoll, the Tisch Family Professor of Theology, presented "*Ars Celibrandi*: Liturgy and Artful Living" for the "Winter Clergy Conference" of the Archdiocese of Omaha, Feb. 6.

Richard Economakis, associate professor of architecture, presented "Origins of the Classical Movement in Architecture" at the "Three Generations of Classical Architects: The Renewal of Modern Architecture" conference, Notre Dame, Sept. 30; exhibited his designs for a classical residence in Athens, Greece, and views of his designs for the Heritage Square commercial development in Mishawaka; and presented "Restoration of Buildings or Conservation of Ruins: Reflections on the Current Acropolis Interventions, and How Best to Restitute the Periclean Monuments" at the "Issues in Architectural Reconstruction" symposium, Notre Dame, on Jan. 21.

Keith J. Egan, adjunct professor of theology, lectured on "Celebrating the Great Mystery" to the Sisters of the Holy Cross, South Bend, Jan. 11–13.

Morten R. Eskildsen, assistant professor of physics, presented the seminar "Exotic Twisters—Vortices in Unconventional Superconductors" at Wayne State Univ., Detroit, on Nov. 8.

Leonid Faybusovich, professor of mathematics, was an invited speaker in the "Semidefinite Programming and Its Applications" workshop at the National Univ. of Singapore, where he presented "Symmetric Relaxation and Its Applications" on Jan. 12.

Stefan G. Frauendorf, professor of physics, presented "New Symmetries of Rotating Nuclei," a colloquium for the Physics Division, Argonne National Laboratory, Jan. 14, 2005; "Orbitals, Shapes, and Currents," an invited talk, at the "International Conference on Finite Fermionic Systems Nilsson Model 50 Years," Lund, Sweden, June 14–18; and "Isovector Proton-Neutron Pairing," an invited talk, at "INT Program 05-3: Nuclear Structure Near the Limits of Stability," Institute for Nuclear Theory, Univ. of Washington, Seattle, Nov. 14–17.

Umesh Garg, professor of physics, presented "Triaxial Superdeformed Bands in ^{163}Tm ," an invited talk, at the "Indo-US Workshop on Physics with Energetic Heavy Ions and Rare Isotopes: Towards a Common Ground Between US and Indian Scientists," Chandigarh, India, Oct. 16–19; and "How Far Can You Squeeze a Star? Experimental Determination of Nuclear Incompressibility," a seminar, at Hampton Univ., Va., Feb. 2, and at the Univ. of Richmond, Va., Feb. 3.

Maureen T. Hallinan, director of the Center for Research on Educational Opportunity and the White Professor of Sociology, presented the invited lectures "School Effects and Opportunities to Learn" at the "National and Social-Cultural Determinants of School Performance Symposium," Tokyo Univ., in November; and "Present Status of Sociology in the United States" at Rikkyo Univ., Tokyo, and at the "Distinguished International Scholars Series," Korea Univ., Seoul, in November.

Maxwell Johnson, professor of theology, presented "Liturgical-Sacramental Life in the Evangelical Lutheran Church in America at the Beginning of the 21st Century" at the "Yale Divinity School and Institute of Sacred Music Liturgy Colloquium," New Haven, on Jan. 12.

Kwan S. Kim, professor of economics and policy studies and Fellow of the Kellogg Institute, presented "Where is the Global Economy Going? US-China Relations and Global Income Gap" at Palm Beach College in Florida on Feb. 7.

James J. Kolata, professor of physics, presented the invited talk "He Transfer and Breaking Reactions Near the Coulomb Barrier" at the "Workshop on Near and Sub-Barrier Fusion of Radioactive Ions with Medium and Heavy Targets," Oak Ridge National Laboratory, Tennessee, Dec. 2–3; and again at "Pacifichem 2005," Honolulu, Dec. 15–20.

Donald P. Kommers, the Robbie Professor of Political Science and concurrent professor of law, presented the Hesburgh Lectures "Is the United States Constitution Obsolete?" in Boise, on Oct. 17; "Abortion and the Death Penalty in the Constitutional Jurisprudence of Germany and the United States," Louisville, on Nov. 9; "Religion and the Constitution," Madison, Wisc. on Nov. 17; and "Religion and the Constitution," Spokane, Wash., Jan. 30. On Jan. 25, he also gave a live, hour-long interview with radio station KXLY, Spokane.

Timothy Matovina, the Cushwa Director of the Cushwa Center for the Study of American Catholicism and associate professor of theology, presented "Guadalupe: Interpretation and Devotion" at the Univ. of Texas, Austin; "The Politics of Sacred Space," a keynote address for the "Welcoming Mystery: Theology, Space and Place" conference of the Church Divinity School of the Pacific, Berkeley; and "Liturgy Evangelizing Life: Finding Christ in Our Culture and Prayer," the keynote address for the "Southwest Liturgical Conference Study Week," Austin, all in January.

Ralph McInerney, the Grace Professor of Medieval Studies, director of the Maritain Center, and professor of philosophy, presented "Analogy and Being" on Feb. 2, and "Thomistic Ethics" on Feb. 3, both at Ava Maria College, Naples, Fla.

Lisa Mitchell, assistant professor of anthropology, presented an invited talk titled "The Making of a Mother Tongue: Rethinking Emotional Attachments to Language and Ethnicity in Southern India" at the Univ. of Michigan in Ann Arbor as part of the "Center for South Asian Studies Winter 2006 Scholarly Lecture Series" on Feb. 3.

Nathan D. Mitchell, professional specialist in theology, gave the retreat to candidates for the permanent deacon program of the Archdiocese of Houston, Jan. 13–15.

Rev. Ronald Nuzzi, director, ACE Leadership program, presented a keynote address titled "Building Bethlehem Everywhere: Catholic Education for the Ages" at "A Centennial Celebration of Catholic Schooling," Grand Rapids, Mich., Jan. 28; and a keynote address titled "Welcome One, Welcome All: Towards Inclusive Catholic Education" at the annual Catholic Foundation awards banquet, Columbus, Ohio, Feb. 4.

Jean Porter, the O'Brien Professor of Moral Theology, presented "Christian Ethics and the Concept of Morality: A Historical Inquiry" as the Presidential Address at the annual meeting of the Society of Christian Ethics, Phoenix, Jan. 6.

Joseph A. Prahlow, MD, guest associate professor of biological sciences, presented "Hate Crimes" at the National Association of Medical Examiners annual meeting in Los Angeles on Oct. 18.

Andrew J. Sommese, the Duncan Professor of Mathematics, presented "Exceptional Sets and Fiber Products" at the Jan. 15 special session on "Symbolic-Numeric Computation and Applications" of the American Mathematical Society meeting in San Antonio; and, on Jan. 30, presented a colloquium talk on "Adaptive Multiprecision and Efficient Numerical Solution of Polynomial Systems" for the Computer Science Dept. of the Univ. of Utah in Salt Lake City.

Yang Sun, visiting associate professor of physics, presented "Projected Shell Model and Its Possible Application to Weak Interaction Rate Calculations" in a joint seminar of the Univ. of Tennessee and Oak Ridge National Laboratory, Knoxville, on Dec. 9.

Richard E. Taylor, director of graduate studies and professor of chemistry and biochemistry, presented an invited seminar titled

"Conformation-Activity Relationships of Microtubule-Stabilizing Polyketides" at Case Western Reserve Univ., Cleveland, on Feb. 2.

Publications

Anatolijs V. Afanasjev, research assistant professor of physics, published "Central Depression in Nuclear Density and Its Consequences for the Shell Structure of Super-heavy Nuclei" with **Stefan G. Frauendorf**, professor of physics, *Physical Review C* 71 (2005): 024308 (five pages); "Description of Rotating $N=Z$ Nuclei in Terms of Isovector Pairing" with S. Frauendorf, *ibid.* 71 (2005): 064318 (17 pages); and "Superdeformation and Hyperdeformation in the 108Cd Nucleus" with S. Frauendorf, *ibid.* 72 (2005): 031301 (five pages).

Ani Aprahamian, professor and chair of Physics, published "Complete Spectroscopy of the ^{162}Dy Nucleus" with X. Wu, et al., *Nuclear Physics A* 764 (2005): 42–78; " β -Decay Studies Close to the $N=82$ r-Process Path" with **Andreas Wöhr**, research assistant professor of physics, et al., *ibid.* 758 (2005): 643–46; "Doppler Shift as a Tool for Studies of Isobaric Analog States of Neutron-Rich Nuclei: Application to ^7He " with Andreas Wöhr, et al., *Physical Review Letters* 95 (2005): 132502; "E2 Transitions between Positive and Negative Parity States of the Ground State Alternating Parity Bands" with T.M. Shneidman, et al., *European Journal of Physics A* 25 (2005): 387–96; "Isobaric Analog States of Neutron-Rich Nuclei: Doppler Shift as a Measurement Tool for Resonance Excitation Functions" with **James J. Kolata**, professor of physics, Larry O. Lamm, research professor of physics, Andreas Wöhr, et al., *ibid.* 25, No. 1 (2005): 259–60; and "Isomers in Neutron-Rich $A\sim 190$ Nuclides from ^{208}Pb Fragmentation" with M. Caamano, et al., *The European Physical Journal A—Hadrons and Nuclei* 23, No. 2 (2005): 201–15.

Albert-László Barabási, the Hofman Professor of Physics, published "Multiscaling and Non-Universality in Fluctuations of Driven Complex Systems" with Z. Eisler, et al., *Europhysics Letters* 69 (2005): 664–70; "Minimum Spanning Trees of Weighted Scale-Free Networks, with P.J. Macdonald

and E. Almaas, *ibid.* 72, No. 2: 308–14; “Emergence of Large-Scale Vorticity during Diffusion in a Random Potential under an Alternating Bias” with M.A. Makeev and I. Derenyi, *Physical Review E* 71, No. 2 (2005): 026112 (four pages); “Inhomogeneous Evolution of Subgraphs and Cycles in Complex Networks, *ibid.*: 025103(Rd) (four pages); “Network Theory—The Emergence of Creative Enterprise, *Science* 308 (2005): 639–41; “The Origin of Bursts and Heavy Tails in Human Dynamics, *Nature* 435 (2005): 207–11; “Topological Units of Environmental Signal Processing in the Transcriptional Regulatory Network of *Escherichia coli*” with G. Balazsi and Z.N. Oltvai, *Proceedings of the National Academy of Sciences* 102 (2005): 7841–46; “Darwin and Einstein Correspondence Patterns” with J.G. Oliveira, *Nature* 437 (2005): 1251; “Taming Complexity,” *Nature Physics* 1 (2005): 68–70; and “The Activity Reaction Core and Plasticity of Metabolic Networks” with E. Almaas and Z.N. Oltvai, *PLoS Computational Biology* 1 (2005): 0557–63.

Ikaros S. Bigi, the Grace-Rupley Professor of Physics, published “On the Photon Energy Moments and Their ‘Bias’ Corrections in $B \rightarrow X_s + \gamma$ ” with D. Benson and **Nikolai G. Uraltsev**, adjunct associate professor of physics, *Nuclear Physics B* 710 (2005): 371; “A ‘Known’ CP Asymmetry in Tau Decays” with A.I. Sanda, *Physics Letters B* 625 (2005): 47; “Four-Quark Mesons in Non-leptonic B Decays—Could They Resolve Some Old Puzzles?” with L. Maiani, F. Piccinini, A.D. Polosa, and V. Riquer, *Physical Review D* 72 (2005): 114016; “*Per Aspera Ad Astra*—A Short Essay on the Long Quest for CP Violation” in *Proceedings of ‘Time and Matter—An International Colloquium on the Science of Time’*, I.I. Bigi and M. Faessler, eds. (World Scientific, 2005); and edited *Proceedings of ‘Time and Matter—An International Colloquium on the Science of Time’* with M. Faessler.

Rev. Paul Bradshaw, professor of theology, edited *A Companion to Common Worship 2*, Alcuin Club Collection 81 (London: SPCK, 2006): 262 pages.

Rev. David Burrell, CSC, the Hesburgh Professor of Theology and Philosophy, and Fellow of the Kroc Institute, published “Preface/Avant-propos” to O.-T. Venard’s *La langue des choses: fondements théologiques de la métaphysique* (Geneve: Ad

Solem, 2004): vi–x; “A Critique of Culture Showing How Faith and Reason Interact,” *Nova et Vetera* 3 (2005): 147–53; “Analogy, Creation, and Theological Language” in R. Van Nieuwenhove and **Joseph Wawrykow**, assistant professor of theology, eds. *Theology of Thomas Aquinas* (Notre Dame: Univ. of Notre Dame Press, 2005): 77–98; “Creation in St. Thomas Aquinas’s *Super Evangelium*,” in M. Dauphinais and M. Levering, eds. *Reading John with St. Thomas Aquinas* (Washington D.C.: Catholic Univ. of America Press, 2005): 115–26; “Islam: From Affront to Encounter,” *Chicago Studies* 44 (2005): 144–54; “Can We be Free Without a Creator?” in L.G. Jones, R. Hutter, and C.R. Velloso Ewell, eds. *God, Truth, and Witness: Engaging Stanley Hauerwas* (Grand Rapids: Brazos Press, 2005): 35–52; “Foreword” to J. Morris *The Reflective Heart: Discovering Spiritual Intelligence in Ibn Arabi’s Meccan Illuminations* (Louisville: Fons Vitae, 2005): ix–x; and “The New Aquinas” in R. Short, ed. *God’s Advocates: Christian Thinkers in Conversation* (Grand Rapids: Eerdmans, 2005): 126–40.

David E. Campbell, assistant professor of political science and Fellow of the Institute for Educational Initiatives, published “Religious ‘Threat’ in Contemporary Presidential Elections,” *Journal of Politics* 68 (February): 104–15.

Ian Carmichael, professor of chemistry and biochemistry and director of the Radiation Laboratory, published “[^{13}C , ^{15}N]-2-Acetamido-2-dioxy-D-aldoheptoses and their Methyl Glycosides: Synthesis and NMR Investigations of J-Couplings involving ^1H , ^{13}C , and ^{15}N ” with Y. Zhu, Q. Pan, C. Thibaudau, S. Zhao, and **Anthony S. Serianni**, professor of chemistry and biochemistry, *Journal of Organic Chemistry* 71, No. 2 (2006): 466–79.

Philippe Collon, assistant professor of physics, published “A New Focal-Plane Detector System at the Argonne Fragment Mass Analyzer for Low Fusion-Evaporation Cross Section Measurements” with C.L. Jiang, et al., *Nuclear Instruments and Methods in Physics Research A* 554 (2005): 500–13; and “Hindrance of Heavy-Ion Fusion at Extreme Sub-Barrier Energies in Open-Shell Colliding Systems” with C.L. Jiang, et al., *Phys. Rev. C* 71 (2005): 044613.

Olivia Remie Constable, professor of history, published a book chapter titled “Judaism, Christianity, and Islam in Spain from the Eighth to the Fifteenth Centuries” in *Religious Foundations of Western Civilization*, ed. J. Neusner (Nashville: Abingdon Press, 2006): 305–47.

Lawrence S. Cunningham, the O’Brien Professor of Theology, published “Holy Men/Holy Women” in *The Blackwell Companion to the Study of Religion* (Oxford: Blackwell, 2006) 285–95; “Some Peaceful Thoughts on Anger” in *ND Business* (winter): 30–32; “Religion Book Notes” in *Commonweal* cxxxiii (Jan. 13): 31–36; and a review of R. Orsi’s *Between Heaven and Earth* in *Bulletin of Royal Institute of Inter-Faith Studies* (Amman, Jordan) (2004): 183–84.

Michael S. Driscoll, the Tisch Family Professor of Theology, published the chapter titled “The Conversion of the Nations” in G. Wainwright and K. Westerfield Tucker, eds. *The Oxford History of Christian Worship* (Oxford/New York: Oxford Univ. Press, 2006): 175–215.

Rev. John Dunne, CSC, the O’Brien Professor of Catholic Theology, published *A Vision Quest* (Univ. of Notre Dame Press, 2006): 120 pages.

Amitava Krishna Dutt, professor of economics in the Dept. of Economics and Policy Studies, and Fellow of the Kroc and Kellogg Institutes, published “Steindl’s Theory of Maturity and Stagnation and Its Relevance Today” in T. Mott and N. Shapiro, eds. *Rethinking Capitalist Development: Essays on the Economics of Josef Steindl* (London: Routledge, 2005): 55–78; and “A Decade of Reforms: The Indian Economy in the 1990s,” with J. Mohan Rao, in *External Liberalization in Asia, Post-Socialist Europe and Brazil*, L. Taylor, ed. (Oxford: Oxford Univ. Press, 2006): 139–79.

Stefan G. Frauendorf, professor of physics, published “Collective Rotation of Nuclei with Tetrahedral Symmetry” with N. Schunck and J. Dudek, *Acta Physica Polonica B* 36 (2005): 1071–75; “Symmetries in Nuclear Structure,” *Nuclear Physics A* 752 (2005): 203C–12C; “Decay of $1+$ States as a New Probe of the Structure of $0+$ Shape Isomers” with G. Rusev, et al., *Physical Review Letters* 95 (2005): 062501 (four pages); “Investigation of Antimagnetic Rotation in Light Cadmium Nuclei: ^{106}Cd , ^{108}Cd ” with

A.J. Simons, et al., *Physical Review C* 72 (2005): 024318 (seven pages); "Nuclear-Tidal Waves in the Osmium Nuclei" with D.M. Cullen, et al., *Journal of Physics G-Nuclear and Particle Physics* 31 (2005): S1709-13; "Reappearance of the Pairing Correlations at Finite Temperature" with J.A. Sheikh and R. Palit, *Physical Review C* 72 (2005): 041301 (five pages); "Soft Ciral Vibrations in ^{106}Mo " with S.J. Zhu, et al., *European Physical Journal A* 25 Suppl. 1 (2005): 459-62; and "Suppression of Band Crossing in the Neutron-Rich Nuclei $^{172,173}\text{Yb}$ Due to the Absence of a Static Pair Field" with T. Venkova, et al., *European Physical Journal A* 26 (2005): 19-24.

Laura Fuderer, associate librarian, **Linda Sharp**, associate librarian and **Cheri Smith**, assistant librarian, published "Testing the Effectiveness of Interactive Multimedia for Library-User Education" with K. Markey, et al., in *portal: Libraries and the Academy* 5, No. 4 (2005): 527-44.

Agustin Fuentes, the O'Neill Associate Professor of Anthropology and Flatley Director of Undergraduate and Post-Baccalaureate Fellowships, published *Core Concepts in Biological Anthropology*, a book and interactive companion website (McGraw-Hill Publishing Company, 2006).

Jay Christopher Howk, assistant professor of physics, published "A Method for Deriving Accurate Gas-Phase Abundances for the Multiphase Interstellar Galactic Halo" with K.R. Sembach and B.D. Savage, *The Astrophysical Journal* 637 (Jan. 20): 333-41.

Maxwell Johnson, professor of theology, published "Liturgy and Ecumenism: Gifts, Challenges, and Hopes for a Renewed Vision," *Worship* 80, No. 1 (January): 2-29; and "The Twelve Days of Christmas or Not," *Notre Dame Center for Liturgy Bulletin* (Autumn/Advent, 2005): 3-4.

James J. Kolata, professor of physics, published "Sub-Barrier Fusion Induced by Neutron-Rich Radioactive Sn-132 " with J.F. Liang, et al., *European Physical Journal A* 25, Suppl. 1 (2005): 239-40; "Measurement of Evaporation Residue Cross Sections from Reactions with Radioactive Neutron-Rich Beams" with D. Shapira, et al., *ibid.*: 241-42; "Isobaric Analog States of Neutron-Rich Nuclei: Doppler Shift as a Measurement Tool for Resonance Excitation Functions" with P. Boutachkov, et al.,

ibid.: 259-60; "Radioactive Ion Beams in Brazil (RIBRAS)" with R. Lichtenthaler, et al., *ibid.*: 733-36; "A High-Efficiency Compact Setup to Study Evaporation Residues Formed in Reactions Induced by Low-Intensity Radioactive Ion Beams" with D. Shapira, et al., *Nuclear Instruments and Methods in Physics Research Section A—Accelerators, Spectrometers, Detectors, and Associated Equipment* 551, Nos. 2-3 (Oct. 11): 330-38; and "Doppler Shift as a Tool for Studies of Isobaric Analog States of Neutron-Rich Nuclei: Application to ^7He " with P. Boutachkov, et al., *Phys. Rev. Lett.* 95 (2005): 132502.

Donald P. Kommers, the Robbie Professor of Political Science and concurrent professor of law, published "The Federal Constitutional Court: Guardian of German Democracy," *The Annals of the American Academy of Political and Social Science*, 603 (2006): 111-28; "American Courts and Democracy: A Comparative Perspective" in Hall and McGuire, eds. *The Judicial Branch* (New York: Oxford Univ. Press, 2005): 200-30; and a review of *A Court Divided: The Rehnquist Court and the Future of Constitutional Law*, by M. Tushnet, in *Law and Politics Book Review* 16 (2006): 11-16.

Warren N. Kubitschek, associate professional specialist in the Center for Research on Educational Opportunity, Institute for Educational Initiatives, published "High School Schedule Changes and the Effect of Lost Instructional Time on Achievement" with **Maureen T. Hallinan**, director of the Center for Research on Educational Opportunity and the White Professor of Sociology, S.M. Arnett, and K.S. Galipeau in *The High School Journal* 89, No. 1 (Oct./Nov.): 63-71.

A. Eugene Livingston, professor of physics, published "Extreme-Ultraviolet Wavelength and Lifetime Measurements in Highly-Ionized Krypton" with K.W. Kukla, C.M. Vogt, **H. Gordon Berry**, professor of physics, et al., *Canadian Journal of Physics* 83 (2005): 1127-39.

Nathan D. Mitchell, professional specialist in theology, published "Revisiting Presence," *Worship* 9, No. 1 (2006): 55-68.

Rudolph M. Navari, director of the Notre Dame Cancer Institute and adjunct professor of chemistry and biochemistry, published "Ondansetron, Prochlorperazine,

and Dexamethasone Have Similar Effects on Prevention of Delayed Chemotherapy-Induced Nausea and Vomiting—Commentary" in *Cancer Treatment Reviews* 32, No. 1 (2006): 50-54.

Joseph M. Powers, associate professor of aerospace and mechanical engineering, published "Simulations of Pulsating One-Dimensional Detonations with True Fifth Order Accuracy" with A.K. Henrick and T.D. Aslam, *Journal of Computational Physics* 213 (2006): 311-29.

Joseph A. Prahlow, MD, guest associate professor of biological sciences, published "Death Due to Ehlers-Danlos Syndrome Type IV" with S.A. Wagner, *American Journal of Forensic Medicine and Pathology* 26 (2005): 78-82; "Amitriptyline Abuse and Misuse" with J.E. Landrum, *ibid.* 26: 86-88; "A Suicide Using a Homemade Carbon Monoxide 'Death Machine'" with B.W. Dolye, *ibid.* 26: 177-80; "West Nile Virus Encephalitis" with N.I. Batalis, L. Galup, and S.R. Zaki, *ibid.* 26: 192-96; "Sudden Death Due to Asphyxia by Esophageal Polyp—Two Case Reports and Review of Asphyxial Deaths" with C. Carrick, K.A. Collin, J. Lee, and J.J. Barnard, *ibid.* 26: 275-81; and "Syphilitic Coronary Artery Ostial Stenosis Resulting in Acute Myocardial Infarction and Death" with J.L.W. Kennedy and J.J. Barnard, *Cardiology* 105 (2006): 25-29.

Robert P. Sedlack Jr., assistant professor of graphic design, published "...and Design" at Notre Dame" in *Creative Convocation: An Assembly of College and University Arts* (January-March 2006): 39-41.

Michael C. Wiescher, the Freimann Professor of Physics, published "Nuclear Structure of the Exotic Mass Region Along the Rp Process Path" with Y. Sun, **Ani Aprahamian**, professor and chair of the Dept. of Physics, and J. Fisker, *Nuclear Physics A* 758 (2005): 765-68.

Administrators' Notes

Activities

Alan Bigger, director of Building Services, presented "Short-Term Gains Lead to Long-Term Pains" for the Univ. of Texas Health Science Center teleconference, Feb. 6.

Miquel Franco, staff psychologist, University Counseling Center, presented "The Relationship between Stress, Injury, and Rehabilitation in Elite-Level Athletes: What is the Role of the Sport Psychologist?" on Jan. 20, and "Performance Enhancement as

a Prophylactic Method against Anxiety and as a Facilitator to Rehabilitation" on Jan. 27, both to the Medical Fellows of the Sports Medicine Institute in South Bend.

Publications

Alan Bigger, director of Building Services, published "Oh, What a Tangled Web We Weave: Spiders and the Benefit of Networking" in *Executive Housekeeping Today* (February): 6–9.

documentation to the Graduate School by Friday, March 10, 2006.

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, CSC, Graduate School 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 Leege
 Thomas Mueller
 1998–1999 Gail Bederman
 1999–2000 Katherine O'Brien O'Keeffe
 2000–2001 Thomas Nowak
 2001–2002 Cindy Bergeman
 2002–2003 Joan Brennecke
 2003–2004 Gary Lamberti
 2004–2005 Scott P. Mainwaring

Documentation

Errors and Omissions

The following are updates to issue 4:

The listing for the Committee on Collegiate procedures omitted Sr. Kathleen Cannon, OP, College of Science.

The Faculty Senate listing on page 77 omitted Philippe Collon, Physics, 2007.

The Committee on Intellectual Property listing on page 79 indicated Bradley Smith is in Engineering. It should have read Science.

James A. Burns, CSC, Graduate School Award

Nominations are requested for the James A. Burns, CSC 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. Faculty from the colleges of Arts and Letters, Science and Engineering, and the School of Architecture, are eligible.

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 all

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 resumé, 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 also be recognized in the Commencement program and at the President's faculty dinner.

Nominations must be received by the director, Office of Research, 511 Main Building, no later than March 10, 2006.

Research Achievement Award Winners

2000–2001 Arvind Varma
2001–2002 Eugene Ulrich
2002–2003 Maureen Hallinan
2003–2004 George Marsden
2004–2005 Frank Collins

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 Joy Vann-Hamilton, assistant provost, 300 Main Building, no later than March 10, 2006.

Faculty Award Winners Since 1960

1959–1960 Otto Bird
1960–1961 John Frederick
1961–1962 Milton Burton
1962–1963 Stephen Kertesz

1963–1964 Raymond Gutschick
1964–1965 Matthew Fitzsimons
1965–1966 Bernard D. Cullity
1966–1967 John Magee
1967–1968 Rev. Charles E. Sheedy, CSC
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, CSC
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 McInerny
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
2002–2003 Francis Castellino
2003–2004 Fernand "Tex" Dutile
2004–2005 Cornelius Delaney

Reinhold Niebuhr Award Nominations Sought

Rev. Theodore M. Hesburgh, CSC, 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 Joy Vann-Hamilton, assistant provost, 300 Main Building, prior to March 10, 2006.

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, CSC
1977 Mr. and Mrs. Arthur Quigley
1978 Thomas P. Broden
1979 Rev. William Toohey, CSC
1980 Rev. Don McNeill, CSC
1981 Charles K. Wilber
1982 Kenneth and Penny Jameson
1983 Julian Pleasants
1984 John W. Houck and Oliver F. Williams, CSC
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, SJ
1996 Rev. William M. Lewers, CSC
1997 Rev. Joseph D. Ross, CSC
1998 Lee Tavis
1999 Robert E. and Jeanne Rodes
2000 Kathleen Maas Weigert
2001 Dinah Shelton and R. Scott Appleby
2002 Rev. Patrick Gaffney, CSC
2003 George Lopez
2004 Teresa Ghilarducci
2005 Rev. Gustavo A. Gutiérrez, OP

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 Neibuhr 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 Joy Vann-Hamilton, assistant provost, 300 Main Building, prior to March 10, 2006.

Grenville Clark Award Winners

1979 Peter Walshe
1980 James and Mary Ann Roemer
1981 Sr. Judith Ann Beattie, CSC
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, CSC
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, OSF
1991 Kathleen Maas Weigert and Delores Tantoco-Stauder
1992 Rev. H. Thomas McDermott, CSC
1993 Michael and Christine Etzel
1994 Bro. Bonaventure Scully, CFX
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
2003 Kenneth Hendricks
2004 Bro. Louis Hurcik, CSC
2005 Barbara J. Fick

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 Salsbury Payne, Laura Anderson Bayard, Joanne Bessler, Doug Archer, and Eric Lease Morgan.

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 10, 2006. Such letters should include reasons for considering the nominee for this award.

Special Presidential Award Nominations Sought

The Special Presidential Awards are given to members of the faculty and/or the administration for distinguished service to the University over an extended period of time. The presentation of a citation and a stipend are made to the recipients. Nominations, from the faculty at large, must be

received by Joy Vann-Hamilton, assistant provost, 300 Main Building, no later than Friday, March 10, 2006.

Special Presidential Award Winners in 2004-2005

Seth Brown
Charles Crowell
James Davis
Alex Hahn
John Haynes
Patricia Maurice
Maria Tomasula

A comprehensive list of Special Presidential Award winners is available upon request.

Research

Awards and Proposal Summary

01/01/2006 to 01/31/2006

Awards Received

Category	No.	Amount
Research	36	\$9,462,327
Total:	36	\$9,462,327

Proposals Submitted

Category	No.	Amount
Research	83	\$22,905,816
Instructional Programs	1	\$413,365
Total:	84	\$23,319,181

January 2006 Cumulative summary

Awards Received

	07.01.2003 - 01.31.2004		07.01.2004 - 01.31.2005		07.01.2005 - 01.31.2006	
Category	No.	Amount	No.	Amount	No.	Amount
Research	233	\$34,589,336	209	\$43,589,770	216	\$39,145,665
Facilities and Equipment						
Instructional Programs	8	\$1,166,443	2	\$44,000	2	\$262,796
Other Programs	1	\$62,500				
Service Programs						
Total:	242	\$35,818,279	211	\$43,633,770	218	\$39,408,461

Proposals Submitted

	07.01.2003 - 01.31.2004		07.01.2004 - 01.31.2005		07.01.2005 - 01.31.2006	
Category	No.	Amount	No.	Amount	No.	Amount
Research	448	\$166,381,272	460	\$136,917,257	499	\$118,298,494
Facilities and Equipment						
Instructional Programs	2	\$88,533	10	\$2,516,561	6	\$3,163,978
Other Programs					1	\$5,000
Service Programs						
Total:	450	\$166,469,805	470	\$139,433,818	506	\$121,467,472

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

The Office of Research is doing what it can to ensure all units receive credit for the proposals/awards they submit and receive. However, it depends on the PI to properly identify responsibility for the project at the time the proposal is submitted. Please notify the Office of Research at research@nd.edu or 631-7432 if you are aware of any proposals or awards that have not been properly credited to a center or institute.

Awards received during the period Jan-01-2006 to Jan-31-2006

Investigator(s)	Title	Sponsor	Dollars	Months
<u>Awards for Research</u>				
Department or Office:	Aerospace and Mechanical Engineering			
Skaar, Steven B	Robotic Depalletizing Prototype	Corporate Funding	\$26,750	12
Department or Office:	Biological Sciences			
Besansky, Nora J. (Center or Institute)	Ecological Genomics of Anopheles gambiae	National Institutes of Health	\$565,121	45
Collins, Frank H. (Center or Institute)	VectorBase: A Bioinformatics Resource Center for Invertebrate Vectors of Human Pathogens	National Institutes of Health	\$600,000	60
Collins, Frank H. (Center or Institute)	VectorBase: A Bioinformatics Resource Center for Invertebrate Vectors of Human Pathogens	National Institutes of Health	\$1,526,840	60
Hyde, David R. (Center or Institute)	Development of Genetic Tools to Study Retinal Regeneration in Zebrafish	National Institutes of Health	\$187,500	23
Whaley, Michelle A. Boyd, Sunny K.	REU Site in Integrative Cellular and Molecular Biology	National Science Foundation	\$85,300	60
Department or Office:	Chemistry and Biochemistry			
Chibber, Bakshy A.	Rapid Identification Methods for Protein Targets in Drug Discovery	Corporate Funding	\$95,000	20
Henderson, Kenneth W.	Development of Novel S-Block Organometallic Reagents	National Science Foundation	\$115,000	36

Awards received during the period Jan-01-2006 to Jan-31-2006

Investigator(s)	Title	Sponsor	Dollars	Months
Kuno, Masaru K.	CAREER: Disorder induced optical heterogeneity in solution based straight/branched nanowires	National Science Foundation	\$146,796	12
Lieberman, Marya	Control of Diesel Lacquer Adhesion	Corporate Funding	\$44,753	6
Miller, Marvin J.	Design, Syntheses and Studies of Novel Antituberculous Agents	National Institutes of Health	\$324,150	24
Mobashery, Shahriar	Resistance to Beta-Lactam Antibodies	National Institutes of Health	\$5,713	30
Department or Office:	Civil Engineering and Geological Sciences			
Kijewski-Correa, Tracy L. Vichit-Vadakan, Wilasa	REU Site: Interdisciplinary Studies in Tsunami Impacts & Mitigation	National Science Foundation	\$83,934	12
Salvati, Lynn A.	Cyclic Behavior of Cemented Sands: Testing, Field Variation, and Modeling	National Science Foundation	\$87,308	60
Department or Office:	Computer Science & Engineering			
Flynn, Patrick J. Bowyer, Kevin W.	Characterizing 3D Face Data, Sensors, and Collection Procedures	Corporate Funding	\$50,000	12
Izaguirre, Jesus A	CAREER: Scalable Mathematical and Computational Models for Biomolecular Modeling	National Science Foundation	\$66,975	60

Awards received during the period Jan-01-2006 to Jan-31-2006

Investigator(s)	Title	Sponsor	Dollars	Months
Izaguirre, Jesus A. Striegel, Aaron Peng, Jeffrey W.	Grid-Enabled Integration of Experimental Data and Simulations for Flexible Protein Docking	National Science Foundation	\$269,317	36
Poellabauer, Christian	CAREER: Judicious Resource Management in Wireless Service Sharing Environments	National Science Foundation	\$54,296	60
Striegel, Aaron	TCP/IP Control Plane Enhancements	Corporate Funding	\$37,500	21
Department or Office: Economics and Econometrics				
Hungerman, Daniel M.	Spiritual Capital and Public Policy in the 20th Century	Private Foundation	\$148,426	24
Department or Office: Electrical Engineering				
Porod, Wolfgang (Center or Institute)	Physically-Coupled Nanostructures for Locally-Interconnected Circuit Architectures	Department of Navy	\$18,750	36
Porod, Wolfgang Fay, Patrick J. Bernstein, Gary H. (Center or Institute)	Focal Plane array processors with adaptive visual range and millimeter wave sensors	Corporate Funding	\$90,000	18
Porod, Wolfgang Fay, Patrick J. Bernstein, Gary H. (Center or Institute)	Multispectral Nanoantennas Infrared Sensors	Corporate Funding	\$450,000	18
Porod, Wolfgang (Center or Institute)	Physically-Coupled Nanostructures for Locally-Interconnected Circuit Architectures	Department of Navy	\$26,250	36

Awards received during the period Jan-01-2006 to Jan-31-2006

Investigator(s)	Title	Sponsor	Dollars	Months
Porod, Wolfgang Fay, Patrick J. Bernstein, Gary H. Huang, Yih-Fang (Center or Institute)	Biologically-Inspired CNN Image Processors with Dynamically-Integrated Hyperspectral Nanoscale Sensors	Department of Navy	\$75,000	38
Sauer, Ken D	Research on Iterative Reconstruction Methods for Spiral X-ray CT	Corporate Funding	\$39,001	65
Tabuada, Paulo	CAREER : Automated Synthesis of Embedded Control Software	National Science Foundation	\$80,000	60
Tabuada, Paulo	Workshop on Embedded Sensing and Control	National Science Foundation	\$5,000	12
Department or Office: Physics				
Garg, Umesh	Research on Nuclei	Argonne National Laboratory	\$31,523	12
Tanner, Carol E.	Development of Advanced Microfabricated Atomic Clocks	National Institute Standards & Technology	\$78,624	12
Department or Office: Political Science				
Dowd, Robert A.	Religiosity and Political Culture: Christians, Muslims and Spiritual Capital in Sub-Saharan Africa	Private Foundation	\$150,000	24

Awards received during the period Jan-01-2006 to Jan-31-2006

Investigator(s)	Title	Sponsor	Dollars	Months
Department or Office: Radiation Laboratory				
Carmichael, Ian C.	Radiation and Photochemistry in Condensed Phase	Department of Energy	\$3,220,000	29
Ferraudi, Guillermo J.				
Kamat, Prashant V.				
Madden, Keith P.				
LaVerne, Jay A.				
Guldi, Dirk M.				
Hug, Gordon L.				
Chipman, Daniel M.				
Tripathi, Gorakh Nath R.				
Bentley, John J.				
Pimblott, Simon M.				
Meisel, Dan				
Bartels, David M.				
(Center or Institute)				
Department or Office: Theology				
Cavadini, John C.	ECHO Faith Formation Leadership Program	Private Foundation	\$150,000	24
Cavadini, John C. (Center or Institute)	Sustaining the Theological Exploration of Vocation 2005	Corporate Funding	\$500,000	37
Elizondo, Virgilio P. (Center or Institute)	Soy Catequista: The Dignity, Vocation, and Mission of the Catechist	Private Foundation	\$25,000	12
Pfeil, Margaret R.	White Privledge: Implications for the Catholic University, the Church and Theology	Private Foundation	\$2,500	5

Proposals submitted during the period Jan-01-2006 to Jan-31-2006

Investigator(s)	Title	Sponsor	Dollars	Months
<u>Proposals for Research</u>				
Department or Office:	Aerospace and Mechanical Engineering			
Corke, Thomas C. Nelson, Robert C.	Advanced Physical Models for Aerodynamic Plasma Flow Control Applications	National Science Foundation	\$589,846	36
Jumper, Eric J.	Turbulence Inner Scale Sensor	Corporate Funding	\$32,750	10
Jumper, Eric J.	Development of Smart Diagnostic Capabilities for High Enthalpy Airflows	Corporate Funding	\$30,002	9
Jumper, Eric J.	AF06-006 Consulting	Corporate Funding	\$10,000	9
Jumper, Eric J.	Aero-Optics Research and Development	Corporate Funding	\$30,002	9
Jumper, Eric J.	Monolithic 8x8 Wavefront Sensor Array	Corporate Funding	\$32,750	9
Ovaert, Timothy C. Corona, Edmundo	Mechanical Modeling and Wear of Orthopedic Hydrogels	Corporate Funding	\$171,033	24
Renaud, John E.	Uncertainty Modeling and Optimization in Simulation-Based Design	Department of Navy	\$68,480	9
Schmid, Steven R.	Undergraduate Research Projects in Trauma and Bone Fracture Repair	Corporate Funding	\$3,000	4

Proposals submitted during the period Jan-01-2006 to Jan-31-2006

Investigator(s)	Title	Sponsor	Dollars	Months
Thomas, Flint O. Corke, Thomas C. Dunn, Patrick F.	Fuel Cavitation Suppression Technology	Corporate Funding	\$100,000	24
Department or Office:	Biological Sciences			
Adams, John H.	Molecular Analysis of Apical Organelles of Plasmodium	National Institutes of Health	\$337,500	12
Belovsky, Gary E. Haenggli, Martin Antsaklis, Panos J.	Cyberinfrastructure for Environmental Tool Integration (CETI)	National Science Foundation	\$1,343,755	36
Belovsky, Gary E.	Luquillo LTER Program 4: University of Puerto Rico Understanding Change in the Ecosystems of Northeastern Puerto Rico		\$42,000	36
Belovsky, Gary E.	Competitive Effect of Leafhoppers on Grasshoppers	National Science Foundation	\$8,375	12
Collins, Frank H. Besansky, Nora J.	PBI: Mosquitos of the World	National Science Foundation	\$3,000,001	60
Duman, John G.	Collaborative Research: Deep Supercooling to -100C and Lower in Alaska Populations of the Beetle Cucujus Clavipes	National Science Foundation	\$686,363	36

Proposals submitted during the period Jan-01-2006 to Jan-31-2006

Investigator(s)	Title	Sponsor	Dollars	Months
Feder, Jeffrey L.	Collaborative Research: Host Race Formation among Southern Hawthorn-Infesting Rhagoletis pomonella	National Science Foundation	\$343,353	36
Ferdig, Michael T.	Genetic Control of Cross-resistances in Plasmodium Falciparum	National Institutes of Health	\$322,000	12
Francl, Karen E.	Collaborative Research: Rapid Change in Species Composition of Mammal Communitites in the Northern Great Lakes	National Science Foundation	\$198,472	36
Lodge, David M. Lamberti, Gary A.	REU Supplement	National Science Foundation	\$12,450	4
McDowell, Mary A.	Interleukin-12 Regulation in Leishmania infected Human Dendritic Cells	National Institutes of Health	\$262,500	12
Schorey, Jeffrey S.	Macrophage Signaling Upon M. avium Infection	National Institutes of Health	\$297,000	12
Schorey, Jeffrey S.	M. avium GPLs in Macrophage Activation and Virulence	National Institutes of Health	\$302,804	12
Suckow, Mark A.	Testing of a Hernia Repair Device	Corporate Funding	\$11,730	12

Proposals submitted during the period Jan-01-2006 to Jan-31-2006

Investigator(s)	Title	Sponsor	Dollars	Months
Suckow, Mark A.	Vaccine Adjuvant Development	Corporate Funding	\$14,723	12
Tauhata, Sinji B.	Neuronal Targeting of Cytoplasmic Dynein via Isoform-Specific Phosphorylation	Private Foundation	\$135,003	36
Tenniswood, Martin	Cellular, Biochemical and Molecular Sciences Training at Notre Dame	National Institutes of Health	\$417,688	12
Welsh, JoEllen J.	Vitamin D Receptor: Novel Regulator of Adiposity	National Institutes of Health	\$187,500	12
Department or Office:	Chemical and Biomolecular Engineering			
Maginn, Edward J. Brennecke, Joan F.	Mercury-Free Electrical Switch	Corporate Funding	\$18,000	6
Ostafin, Agnes E.	NSOM Study of Sick Cell Hemoglobin Nucleation Sites on the Cytoskeleton	National Science Foundation	\$367,892	36
Schneider, William F.	Theoretical Characterization of Cooperative Adsorption at Metal Oxide Surfaces	National Science Foundation	\$317,112	36

Proposals submitted during the period Jan-01-2006 to Jan-31-2006

Investigator(s)	Title	Sponsor	Dollars	Months
Zhu, Yingxi E.	Water-immersed Polymer Interfaces and the Roles of Their Materials Properties on Biolubrication and Biofouling Prevention	Department of Navy	\$266,318	36
Department or Office:	Chemistry and Biochemistry			
Castellino, Francis J. Cruz, Diana T.	Characterization of the Critical Amino Amino Acids in Human Plasminogen responsible for Streptokinase Sensitivity	Private Foundation	\$52,000	24
DuBois, Jennifer Maurice, Patricia A.	Mineral Dissolution and Trace Metal Mobilization by the Obligate Aerobe <i>P. mendocina</i> ymp: Developing Molecular Biological Approaches	National Science Foundation	\$870,231	48
Helquist, Paul Wiest, Olaf G.	Automated Design and Experimental Screening of Chiral Catalysis	National Science Foundation	\$491,372	36
Helquist, Paul Wiest, Olaf G.	Computational Chiral Ligand Design and Screening for Enantioselective Reactions	Private Foundation	\$135,000	36
Joyce, David E.	The Protein C Pathway in Murine Septic Shock	Private Foundation	\$260,000	48
Joyce, David E.	The Protein C Pathway in Murine Septic Shock	Private Foundation	\$195,000	48

Proposals submitted during the period Jan-01-2006 to Jan-31-2006

Investigator(s)	Title	Sponsor	Dollars	Months
Kandel, S. A.	Structure and Dynamics of Surface-Adsorbed Fullerenes	National Science Foundation	\$311,624	36
Lay, Angelina J.	Understanding the Role of Protein C in LPS-induced Endotoxemia	Private Foundation	\$214,500	36
Lay, Angelina J.	Understanding the Role of Protein C in LPS-induced Endotoxemia	Private Foundation	\$260,000	48
Mobashery, Shahriar	Penicillin-Binding Proteins, Mechanism and Inhibition	National Institutes of Health	\$277,500	12
Ploplis, Victoria A.	Pathological Consequences of the Plasminogen System	National Institutes of Health	\$300,000	12
Taylor, Richard E.	Electrophile-Induced Ether Transfer Methodology for Polyketide Synthesis	Corporate Funding	\$149,600	24
Department or Office:	Civil Engineering and Geological Sciences			
Kurama, Yahya C.	Energy Dissipation of Reinforced Concrete Members	Corporate Funding	\$20,000	18
Kurama, Yahya C.	NEESR-II: Multi-Axial Seismic Evaluation of Post-Tensioned Precast Walls with Large Openings	National Science Foundation	\$374,945	36

Proposals submitted during the period Jan-01-2006 to Jan-31-2006

Investigator(s)	Title	Sponsor	Dollars	Months
Kurama, Yahya C.	NEESR-II: Self-Centering Energy-Dissipating Seismic-Resistant Precast Concrete Frame Structures	Lehigh University	\$123,987	36
Sakimoto, Susan E.	Collaborative Research: Spatial and Temporal Topographic Quantification of Natural and Anthropogenically Modified Hydraulic Louisiana Gulf Coast Chann	National Science Foundation	\$279,349	36
Westerink, Joannes J.	CMG Collaborative Research: Adaptive Numerical Methods for Shallow Water Circulation with Applications to Hurricane Storm Surge Modeling	National Science Foundation	\$295,063	48
Department or Office:	Computer Science & Engineering			
Poellabauer, Christian	Resource-Efficient Multi-Modal Wireless Sensor Networks	Department of Navy	\$229,241	36
Poellabauer, Christian	A Hierarchical Hybrid Resource Management Approach for Scientific Computing Clusters	Department of Energy	\$283,043	36
Poellabauer, Christian Hu, Xiaobo	Collaborative Research: CSR-EHS: Integrated Energy-Aware Scheduling for Weakly-Hard Real-Time Systems	National Science Foundation	\$455,512	36

Proposals submitted during the period Jan-01-2006 to Jan-31-2006

Investigator(s)	Title	Sponsor	Dollars	Months
Striegel, Aaron	SAABCOT: Secure Application-Agnostic Bandwidth Conservation Techniques for Tactical Networks	Department of Navy	\$331,205	36
Department or Office:	Economics and Econometrics			
Lee, Byung-Joo	Uncovered Interest Parity Puzzle: Cross-section and Time Series Analysis	National Science Foundation	\$73,320	14
Waller, Christopher J.	Dynamic Taxation, Private Information and Monetary Search	National Science Foundation	\$219,860	36
Department or Office:	Electrical Engineering			
Fay, Patrick J.	Avalanche Photodiode for Near-IR Photon-Counting	Corporate Funding	\$24,896	6
Fay, Patrick J.	Broadly-Tunable CW Terahertz Sources	Corporate Funding	\$24,896	6
Hall, Douglas C.	Design, Fabrication and Characterization of Integrated Optic Wavemeter	Corporate Funding	\$25,000	10
Jena, Debdeep	Thin Film Nitride Solar Cells	Corporate Funding	\$36,000	16

Proposals submitted during the period Jan-01-2006 to Jan-31-2006

Investigator(s)	Title	Sponsor	Dollars	Months
Merz, James L. Mintairov, Alexander Xing, Huili Jena, Debdeep	Acquisition of Ultrafast Spectroscopy Instrumentation for Materials Research and Education	National Science Foundation	\$291,658	24
Department or Office:	English			
Maurer, Sara L.	Possessive Dispossession: Narratives of Ownership in the Nineteenth Century English and Irish Novel	Private Foundation	\$40,000	8
Maurer, Sara L.	Possessive Dispossession: Narratives of Ownership and the Nation in the Nineteenth Century English and Irish Novel	Private Foundation	\$40,000	9
Department or Office:	History			
Meserve, Margaret H.	A Renaissance of News: The Italian Market in Printed Political Information, 1470-1527	Harvard University	\$2,750	9
Meserve, Margaret H.	A Renaissance of News: The Italian Market in Printed Political Information, 1470-1527	Private Foundation	\$4,000	1
Meserve, Margaret H.	A Renaissance of News: The Italian Market in Printed Political Information, 1470-1527. Chapter Two: The Case of Simon of Trent	Private Foundation	\$4,000	1

Proposals submitted during the period Jan-01-2006 to Jan-31-2006

Investigator(s)	Title	Sponsor	Dollars	Months
Department or Office: Physics				
Barabasi, Albert-Laszlo	Knowledge Discovery in Real Communication Data	National Science Foundation	\$280,336	12
Eskildsen, Morten R. Jena, Debdeep Kuno, Masaru K. Sevov, Slavi C. Furdyna, Jacek K.	Acquisition of Transport Measurements System for Materials Research and Education	National Science Foundation	\$177,775	12
Furdyna, Jacek K. Liu, Xinyu Dobrowolska-Furdyna, Malgorzata	Exploratory epitaxial growth of (Ga,Mn)A's on special substrate planes for testing combinatorial predictions of high-temperature ferromagnetic semicon	DARPA	\$287,829	24
Hildreth, Michael D.	Faculty Leave Salary	Fermi National Laboratory	\$45,376	10
LaVerne, Jay A.	Radiolytic Decomposition of Water at Zirconia Interfaces	Corporate Funding	\$20,250	2
LoSecco, John M.	Research on CP Violation in the B Meson Sector and the Search for the Neutrino Theta 13	Department of Energy	\$527,949	36
Wayne, Mitchell R.	USCMS Hadron Calorimeter M&O Subsystem	University of California-Los Angeles	\$32,201	9

Proposals submitted during the period Jan-01-2006 to Jan-31-2006

Investigator(s)	Title	Sponsor	Dollars	Months
Department or Office: Political Science				
Hero, Rodney E.	Collaborative Proposal: Political Responses to Tragedy: Citizen Participation after Beslan	National Science Foundation	\$273,287	24
Mainwaring, Scott P.	Doctoral Dissertation Research in Political Science: political Parties and Electoral Mobilization in Argentina	National Science Foundation	\$12,000	12
Mainwaring, Scott P. Schierling, Sharon K. Welna, Christopher J.	Building Development Effectiveness in the Central American Isthmus	Corporate Funding	\$2,694,224	
Department or Office: Psychology				
Carlson, Laura A. Eberhard, Kathleen M.	Collaborative Research: The Formulation and Interpretation of Spatial Descriptions	National Science Foundation	\$487,465	60
Radvansky, Gabriel A.	Collaborative Research: Episodic Cuing in Memory	National Science Foundation	\$414,141	36
Department or Office: Robinson Community Learning Center				
Caponigro, Jerome V.	Youth Justice Project	Indiana Criminal Justice Institute	\$35,000	12
Department or Office: Sociology				
Cardenas, Gilberto	Latino Immigrant Incorporation	Private Foundation	\$206,345	12

Proposals submitted during the period Jan-01-2006 to Jan-31-2006

Investigator(s)	Title	Sponsor	Dollars	Months
Smith, Jackie G.	Collaborative Research: Complex Internationalism and Transnational Social Movement Networks, 1985-2005	National Science Foundation	\$213,184	24
Department or Office:	Theology			
Anderson, Gary A.	From Israel's Burden to Israel's Debt: Metaphors of Sin in Ancient Judaism	Harvard University	\$40,000	5
Cavadini, John C.	Sustaining the Theological Exploration of Vocation 2005	Corporate Funding	\$500,000	37
Pfeil, Margaret R.	White Privledge: Implications for the Catholic University, the Church and Theology	Private Foundation	\$2,500	5

Proposals for Instructional Programs

Department or Office:	Educational Talent Search			
Outlaw, Warren G.	Talent Search	Department of Education	\$413,365	60
Vann-Hamilton, Joy J.				
Coleman, Myrtie M.				

Awards and Proposal Summary

Centers and Institutes Report

01/01/2006 to 01/31/2006

Awards Received

Department or Office	No.	Amount
Center for Tropical Disease Research & Training	3	\$2,691,961
Center for Zebrafish Research	1	\$187,500
Institute for Church Life	1	\$500,000
Institute for Latino Studies	1	\$25,000
Nano Science and Technology Center	5	\$660,000
Radiation Laboratory	1	\$3,220,000
Total:	12	\$7,284,461

Proposals Submitted

Department or Office	No.	Amount
Center for Flow Physics and Control	8	\$893,830
Center for Transgene Research	5	\$1,229,500
Center for Tropical Disease Research & Training	6	\$4,521,805
Center for Zebrafish Research	1	\$135,003
Environmental Research Center	1	\$1,343,755
Freimann Life Science Center	2	\$26,453
Institute for Church Life	1	\$500,000
Institute for Latino Studies	1	\$206,345
Kellogg Institute for International Studies	1	\$2,694,224
Kroc Institute for International Peace Studies	1	\$213,184
Nano Science and Technology Center	6	\$690,279
Radiation Laboratory	1	\$20,250
Robinson Community Learning Center	1	\$35,000
Walther Cancer Research Center	1	\$149,600
Total:	36	\$12,659,228

Awards and Proposal Summary

Centers and Institutes Report

07/01/2005 to 01/31/2006

Awards Received

Department or Office	No.	Amount
Center for Astrophysics	5	\$231,129
Center for Children and Families	2	\$1,862,590
Center for Flow Physics and Control	8	\$777,502
Center for Tropical Disease Research & Training	9	\$5,612,346
Center for Zebrafish Research	2	\$495,780
Environmental Molecular Science Institute	1	\$21,750
Environmental Research Center	1	\$8,655
Freimann Life Science Center	1	\$12,000
Institute for Church Life	2	\$502,546
Institute for Educational Initiatives	1	\$36,125
Institute for Latino Studies	8	\$623,900
Interdisciplinary Center for the Study of Biocomplexity	2	\$365,175
John A. Kaneb Center for Teaching and Learning	1	\$233,000
Joint Institute for Nuclear Astrophysics	1	\$13,035
Kellogg Institute for International Studies	1	\$5,000
Kroc Institute for International Peace Studies	2	\$85,244
Nano Science and Technology Center	11	\$2,459,778
Nanovic Institute	1	\$2,600
Nuclear Structure Laboratory	2	\$2,050,000
Radiation Laboratory	7	\$3,885,500
South Bend Center for Medical Education	2	\$276,249
Walther Cancer Research Center	2	\$422,500
Total:	72	\$19,982,404

Proposals Submitted

Department or Office	No.	Amount
Center for Applied Mathematics	1	\$215,803
Center for Astrophysics	10	\$2,251,617
Center for Children and Families	6	\$2,376,838
Center for Environmental Science and Technology	3	\$57,600
Center for Ethics and Culture	1	\$1,600,000
Center for Flow Physics and Control	17	\$3,567,901
Center for Microfluidics and Medical Diagnostics	3	\$911,799
Center for Molecularly Engineered Materials	2	\$438,996
Center for Transgene Research	7	\$2,502,788
Center for Tropical Disease Research & Training	18	\$7,670,050

Awards and Proposal Summary

Centers and Institutes Report

07/01/2005 to 01/31/2006

Department or Office	No.	Amount
Center for Zebrafish Research	7	\$1,453,424
Environmental Molecular Science Institute	1	\$21,750
Environmental Research Center	4	\$3,603,664
Freimann Life Science Center	3	\$68,583
Institute for Church Life	2	\$548,015
Institute for Latino Studies	14	\$4,733,058
Institute for Theoretical Sciences	7	\$3,191,410
Interdisciplinary Center for the Study of Biocomplexity	1	\$112,500
Joint Institute for Nuclear Astrophysics	3	\$158,035
Kellogg Institute for International Studies	3	\$3,491,494
Keough Institute for Irish Studies	2	\$343,545
Kroc Institute for International Peace Studies	3	\$495,038
Medieval Institute	2	\$80,000
Nano Science and Technology Center	42	\$12,474,061
Natl. Cons. for Grad. Degrees for Minorities, Engr & Science	1	\$255,000
Nuclear Structure Laboratory	2	\$545,595
Radiation Laboratory	4	\$558,063
Reilly Center for Science, Technology and Values	2	\$762,794
Robinson Community Learning Center	1	\$35,000
Walther Cancer Research Center	4	\$1,339,673
Total:	176	\$55,864,094

Awards received during the period Jan-01-2006 to Jan-31-2006**Centers and Institutes Report**

Investigator(s)	Title	Sponsor	Dollars	Award #
<u>Awards for Research</u>				
Department or Office:	Center for Tropical Disease Research & Training			
Collins, Frank H. (Center or Institute)	VectorBase: A Bioinformatics Resource Center for Invertebrate Vectors of Human Pathogens	National Institutes of Health	\$600,000	006299-001
Besansky, Nora J. (Center or Institute)	Ecological Genomics of Anopheles gambiae	National Institutes of Health	\$565,121	006485-001
Collins, Frank H. (Center or Institute)	VectorBase: A Bioinformatics Resource Center for Invertebrate Vectors of Human Pathogens	National Institutes of Health	\$1,526,840	006299-001
Department or Office:	Center for Zebrafish Research			
Hyde, David R. (Center or Institute)	Development of Genetic Tools to Study Retinal Regeneration in Zebrafish	National Institutes of Health	\$187,500	006674-001
Department or Office:	Institute for Church Life			
Cavadini, John C. (Center or Institute)	Sustaining the Theological Exploration of Vocation 2005	Corporate Funding	\$500,000	006685-001
Department or Office:	Institute for Latino Studies			
Elizondo, Virgilio P. (Center or Institute)	Soy Catequista: The Dignity, Vocation, and Mission of the Catechist	Private Foundation	\$25,000	006688-001
Department or Office:	Nano Science and Technology Center			
Porod, Wolfgang (Center or Institute)	Physically-Coupled Nanostructures for Locally-Interconnected Circuit Architectures	Department of Navy	\$18,750	005927-001
Porod, Wolfgang (Center or Institute)	Physically-Coupled Nanostructures for Locally-Interconnected Circuit Architectures	Department of Navy	\$26,250	005927-001

Awards received during the period Jan-01-2006 to Jan-31-2006

Centers and Institutes Report

Investigator(s)	Title	Sponsor	Dollars	Award #
Porod, Wolfgang Fay, Patrick J. Bernstein, Gary H. (Center or Institute)	Multispectral Nanoantennas Infrared Sensors	Corporate Funding	\$450,000	006682-001
Porod, Wolfgang Fay, Patrick J. Bernstein, Gary H. (Center or Institute)	Focal Plane array processors with adaptive visual range and millimeter wave sensors	Corporate Funding	\$90,000	006681-001
Porod, Wolfgang Fay, Patrick J. Bernstein, Gary H. Huang, Yih-Fang (Center or Institute)	Biologically-Inspired CNN Image Processors with Dynamically-Integrated Hyperspectral Nanoscale Sensors	Department of Navy	\$75,000	006071-001
Department or Office: Radiation Laboratory				
Carmichael, Ian C. Ferraudi, Guillermo J. Kamat, Prashant V. Madden, Keith P. LaVerne, Jay A. Guldi, Dirk M. Hug, Gordon L. Chipman, Daniel M. Tripathi, Gorakh Nath R. Bentley, John J. Pimblott, Simon M. Meisel, Dan Bartels, David M. (Center or Institute)	Radiation and Photochemistry in Condensed Phase	Department of Energy	\$3,220,000	006378-001

Proposals submitted during the period Jan-01-2006 to Jan-31-2006

Centers and Institutes Report

Investigator(s)	Title	Sponsor	Dollars	Proposal #
<u>Proposals for Research</u>				
Department or Office:	Center for Flow Physics and Control			
Corke, Thomas C. Nelson, Robert C.	Advanced Physical Models for Aerodynamic Plasma Flow Control Applications	National Science Foundation	\$589,846	06070426
Jumper, Eric J.	Aero-Optics Research and Development	Corporate Funding	\$30,002	06070439
Jumper, Eric J.	Turbulence Inner Scale Sensor	Corporate Funding	\$32,750	06070440
Jumper, Eric J.	Monolithic 8x8 Wavefront Sensor Array	Corporate Funding	\$32,750	06070471
Thomas, Flint O. Corke, Thomas C. Dunn, Patrick F.	Fuel Cavitation Suppression Technology	Corporate Funding	\$100,000	06070495
Jumper, Eric J.	Development of Smart Diagnostic Capabilities for High Enthalpy Airflows	Corporate Funding	\$30,002	06070444
Jumper, Eric J.	AF06-006 Consulting	Corporate Funding	\$10,000	06070443
Renaud, John E.	Uncertainty Modeling and Optimization in Simulation-Based Design	Department of Navy	\$68,480	06070496

Proposals submitted during the period Jan-01-2006 to Jan-31-2006

Centers and Institutes Report

Investigator(s)	Title	Sponsor	Dollars	Proposal #
Department or Office: Center for Transgene Research				
Joyce, David E.	The Protein C Pathway in Murine Septic Shock	Private Foundation	\$195,000	06070428
Lay, Angelina J.	Understanding the Role of Protein C in LPS-induced Endotoxemia	Private Foundation	\$260,000	06070436
Ploplis, Victoria A.	Pathological Consequences of the Plasminogen System	National Institutes of Health	\$300,000	06070448
Joyce, David E.	The Protein C Pathway in Murine Septic Shock	Private Foundation	\$260,000	06070467
Lay, Angelina J.	Understanding the Role of Protein C in LPS-induced Endotoxemia	Private Foundation	\$214,500	06070460
Department or Office: Center for Tropical Disease Research & Training				
Schorey, Jeffrey S.	Macrophage Signaling Upon M. avium Infection	National Institutes of Health	\$297,000	06070429
Ferdig, Michael T.	Genetic Control of Cross-resistances in Plasmodium Falciparum	National Institutes of Health	\$322,000	06070437
McDowell, Mary A.	Interleukin-12 Regulation in Leishmania infected Human Dendritic Cells	National Institutes of Health	\$262,500	06070462

Proposals submitted during the period Jan-01-2006 to Jan-31-2006**Centers and Institutes Report**

Investigator(s)	Title	Sponsor	Dollars	Proposal #
Collins, Frank H. Besansky, Nora J.	PBI: Mosquitos of the World	National Science Foundation	\$3,000,001	06070442
Adams, John H.	Molecular Analysis of Apical Organelles of Plasmodium	National Institutes of Health	\$337,500	06070433
Schorey, Jeffrey S.	M. avium GPLs in Macrophage Activation and Virulence	National Institutes of Health	\$302,804	06070430
Department or Office:	Center for Zebrafish Research			
Tauhata, Sinji B.	Neuronal Targeting of Cytoplasmic Dynein via Isoform-Specific Phosphorylation	Private Foundation	\$135,003	06070464
Department or Office:	Environmental Research Center			
Belovsky, Gary E. Haenggi, Martin Antsaklis, Panos J.	Cyberinfrastructure for Environmental Tool Integration (CETI)	National Science Foundation	\$1,343,755	06070493
Department or Office:	Freimann Life Science Center			
Suckow, Mark A.	Testing of a Hernia Repair Device	Corporate Funding	\$11,730	06070458
Suckow, Mark A.	Vaccine Adjuvant Development	Corporate Funding	\$14,723	06070497

Proposals submitted during the period Jan-01-2006 to Jan-31-2006

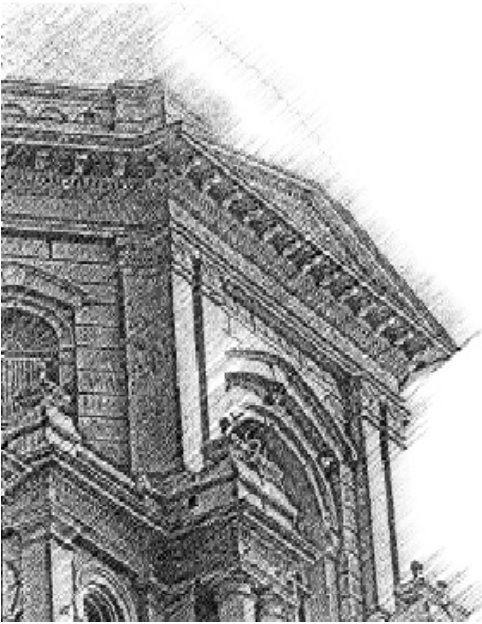
Centers and Institutes Report

Investigator(s)	Title	Sponsor	Dollars	Proposal #
Department or Office:	Institute for Church Life			
Cavadini, John C.	Sustaining the Theological Exploration of Vocation 2005	Corporate Funding	\$500,000	06070483
Department or Office:	Institute for Latino Studies			
Cardenas, Gilberto	Latino Immigrant Incorporation	Private Foundation	\$206,345	06070479
Department or Office:	Kellogg Institute for International Studies			
Mainwaring, Scott P. Schierling, Sharon K. Welna, Christopher J.	Building Development Effectiveness in the Central American Isthmus	Corporate Funding	\$2,694,224	06070501
Department or Office:	Kroc Institute for International Peace Studies			
Smith, Jackie G.	Collaborative Research: Complex Internationalism and Transnational Social Movement Networks, 1985-2005	National Science Foundation	\$213,184	06070455
Department or Office:	Nano Science and Technology Center			
Hall, Douglas C.	Design, Fabrication and Characterization of Integrated Optic Wavemeter	Corporate Funding	\$25,000	06070456
Fay, Patrick J.	Broadly-Tunable CW Terahertz Sources	Corporate Funding	\$24,896	06070491
Jena, Debdeep	Thin Film Nitride Solar Cells	Corporate Funding	\$36,000	06070509

Proposals submitted during the period Jan-01-2006 to Jan-31-2006**Centers and Institutes Report**

Investigator(s)	Title	Sponsor	Dollars	Proposal #
Merz, James L. Mintairov, Alexander Xing, Huili Jena, Debdeep	Acquisition of Ultrafast Spectroscopy Instrumentation for Materials Research and Education	National Science Foundation	\$291,658	06070500
Fay, Patrick J.	Avalanche Photodiode for Near-IR Photon-Counting	Corporate Funding	\$24,896	06070490
Furdyna, Jacek K. Liu, Xinyu Dobrowolska-Furdyna, Malgorzata	Exploratory epitaxial growth of (Ga,Mn)A's on special substrate planes for testing combinatorial predictions of high-temperature ferromagnetic semicon	DARPA	\$287,829	06070473
Department or Office:	Radiation Laboratory			
LaVerne, Jay A.	Radiolytic Decomposition of Water at Zirconia Interfaces	Corporate Funding	\$20,250	06070484
Department or Office:	Robinson Community Learning Center			
Caponigro, Jerome V.	Youth Justice Project	Indiana Criminal Justice Institute	\$35,000	06070502
Department or Office:	Walther Cancer Research Center			
Taylor, Richard E.	Electrophile-Induced Ether Transfer Methodology for Polyketide Synthesis	Corporate Funding	\$149,600	06070480

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