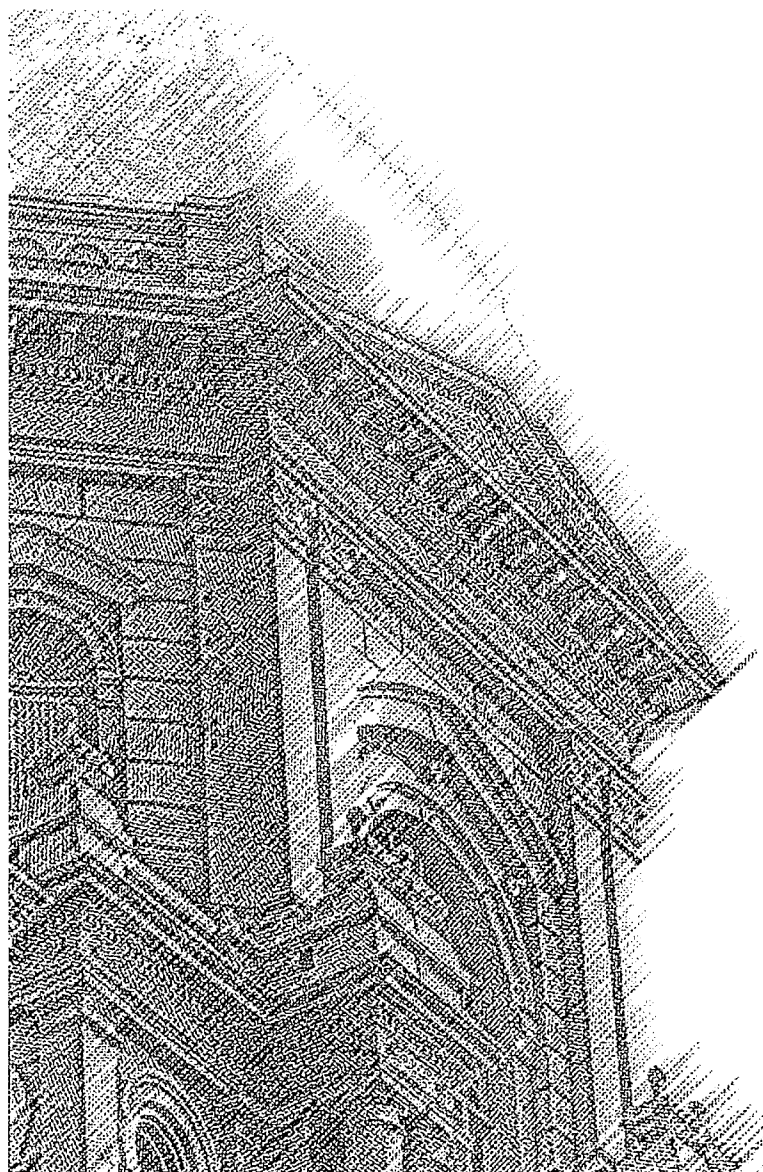


# Notre Dame Report



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# Faculty Notes

## Honors

**Panos J. Antsaklis**, professor of electrical engineering and director of the Center for Applied Mathematics, was invited to deliver the 2001 Zaborszky Lectures in the Dept. of Systems Science and Mathematics of Washington Univ. in St. Louis on March 19-21. The prestigious annual Zaborszky lecture series includes three lectures by a distinguished scholar in his field of expertise. Prof. Antsaklis lectured on the topic of hybrid and discrete event systems in autonomous intelligent control.

**Richard Economakis**, assistant professor of architecture, has been informed that the proposal for the Landmark Competition for the new town of Seaside, Fla., submitted by the Deupi Economakis Design Partnership, has been selected as one of eight finalist projects, out of a total of some 70 entries. The final selection process will occur in the month of April.

**Jimmy Gurulé**, associate dean of the Law School and professor of law, was nominated by President Bush to serve as undersecretary of enforcement in the Department of the Treasury. As the department's principal law enforcement official, Gurulé would oversee activities related to the efforts to prevent drug smuggling, counterfeiting, and the criminal use of guns and bombs. The position also includes supervision of the Federal Law Enforcement Training Center and the Financial Crimes Enforcement Network, which is responsible for setting policy and establishing enforcement strategies to combat domestic and international money laundering.

**Robert A. Krieg**, professor of theology, was selected by the Association of Theological Schools for a Henry Luce III Fellowship in Theology for the 2001-2002 academic year.

**Timothy Matovina**, associate professor of theology, was selected by the Association of Theological Schools for a Henry Luce III Fellowship in Theology for the 2001-2002 academic year. He

also received a Christian Faith and Life Sabbatical Grant from the Louisville Institute for 2001-2002.

**Donald E. Sporleder**, professor emeritus of architecture, was re-appointed to a three-year term on the Indiana Department of Natural Resources Trails Advisory Board in February, representing pedestrians in the state.

**Dr. Arvind Varma**, Schmitt Professor of Chemical Engineering and Director, Center for Molecularly Engineered Materials, served on the committee to select the recipient of the 2001 Chemical Engineering Lectureship Award of the American Society for Engineering Education.

**Raimo Väyrynen**, professor of government and international studies and Kroc Institute senior fellow, was appointed for a three-year period as a member of the executive board of the International Peace Research Institute, Oslo.

**Samir Younés**, associate professor of architecture and director of the School of Architecture Rome Studies Program, was selected as a finalist in the Ceremonial Landmark Design Competition held by the Seaside Institute in the city of Seaside, Fla. Younés's architectural scheme was entitled "The Beacon at Seaside."

## Activities

**Jay Brandenberger**, director of experiential learning and developmental research in the Center for Social Concerns, associate professional specialist, and concurrent assistant professor of psychology, lectured on "Moral and Civic Learning in Higher Education," Notre Dame, March 27.

**David B. Burrell, C.S.C.**, Hesburgh Professor of Arts and Letters, professor of theology and philosophy, and Kroc Institute fellow, presented "Why Creation, to be Creation, must be *ex nihilo*" at the Bar-Ilan University, Israel, March 27.

**Lawrence Cunningham**, professor of theology, presented "The Character of Catholicity" at the third annual Kinget lecture on Catholic Thought, Lansing, on Feb. 1; "Thomas Merton: Contemplative" to the Contemplative Study Group at Christ the King Monastery (Poor Clares), Delray Beach, Fla., March 11; "The Character of Discipleship," Saint Joan of Arc Parish, Boca Raton, Fla., March 12; two theological conferences on "Creation and Redemption" to the clergy of the Diocese of West Palm Beach, March 13; "Saints as a Theological Resource" to the annual Vice-Presidential lecture of Duquesne University in Pittsburgh, March 14; "What is Christian Spirituality?" Hesburgh lecture at the College of Saint Rose, Albany, N.Y., March 23; and "Saints as a Theological Resource," Creighton Univ., Omaha, April 2.

**John Duffy**, assistant professor of English, presented "The Rhetoric of Refugee: Language and Literacy in a Community Struggle" at the 52nd annual convention of the Conference on College Composition and Communication, March 15-16, Denver. At the same conference he also chaired the session "Toward a Rhetoric of Everyday Life: New Directions in Research on Writing, Text, and Discourse"; chaired the session "Sponsors of the Struggle: Alternative Supports for Reading and Writing in South African and African American Life"; chaired the session "Where the Boys Aren't: Gender Disparity in Seeking Help with Writing"; and led the colloquia session on "The Writing Center as (a) Composing Community."

**Leonid Faybusovich**, professor of mathematics, gave a colloquium talk "Interior-point Algorithms for Semi-infinite Programming" in the Dept. of Mathematics of Hong Kong Polytechnic Univ., March 16.

**Alejandro García**, Grace-Rupley Professor of Physics, presented an invited seminar "Searches for New Physics in Nuclear Beta Decay" at the Univ. of Illinois, Champaign-Urbana, Nov. 1; an invited seminar "Searches

for New Physics in Nuclear Beta Decay" at the Univ. of Michigan, Ann Arbor, Nov. 3; an invited seminar "Shape of the  $^8\text{B}$  Neutrino Spectrum" at Kamio-kande, Kamioka, Japan, Jan. 12; and an invited seminar "Searches for Scalar Weak Currents in  $^{32}\text{Ar}$  and Potential Searches for G-parity Violation in the  $A=8$  System" at Osaka Univ., Jan. 14.

**James A. Glazier**, associate professor of physics, presented "Foams in Two and Three Dimensions," an invited seminar, Univ. of South Florida, Dept. of Physics, Tampa, March 23.

**Dirk M. Guldi**, associate professional specialist in the Radiation Laboratory, presented "Carbon Nanostructures: From Fullerenes to Nanotubes. Their Implementation into Donor Acceptor Ensembles" at the EPA (Joint Meeting of the Italian, French and Swiss Photochemistry Groups), Lausanne, Switzerland, Feb. 27; and "Photoelectrochemical Electrodes Based on Single Wall Nanotubes and Fullerene-Containing Donor-Acceptor Dyads" at the IWEPNM, Kirchberg, Austria, March 9.

**Roger F. Jacobs**, professor of law, law librarian, director of research in the Law Library, and associate dean for research and information services, participated as a member of the ABA site evaluation team in the sabbatical inspection of Fordham Univ. Law School, New York, Feb. 28-March 3, 2001.

**Pamela A. Krauser**, director of Electronic Research Administration, Office of Research, and professional specialist in the Graduate School, presented the session "Notifications and Reports at ND" with **Andrew B. Deliyannides**, assistant professional specialist, Graduate School, and concurrent assistant professor of English, at the Coeus Users Group Conference, San Diego, March 6.

**Timothy Matovina**, associate professor of theology, presented "Latinos and the 'Remapping' of American Catholicism" to Interpreting the American Catholic Experience: The Achievement of Jay P. Dolan Conference, Cushwa Center for the Study of American Catholicism, Notre Dame, March 16-17.

**Ralph McInerny**, Grace Professor of Medieval Studies, director of the Maritain Center, and professor of philosophy, presented "Maritain on Liberal Education" at St. Mary's College, Moraga, Calif., Feb. 2, and "St. Thomas and the Fine Arts" at St. Justin Martyr, Shohola, Pa., March 10.

**Ernan McMullin**, O'Hara Professor Emeritus of Philosophy, delivered the annual Mary Olive Woods Lecture at Western Illinois Univ. on "God and Science: Is the Universe Fine-tuned for Life?" on Sept. 21. He gave two lectures at Creighton Univ., "Recent Writings on Galileo" and "Evolution as a Christian Theme," Sept. 27; lectured at Chesapeake Bay Marine Biological Laboratory on "Science and Imagination" and "How Science Grows," Oct. 16; and participated in a two-day panel discussion organized by the American Association for the Advancement of Science, March 5-6, on the topic "What is Life: Terrestrial and (Maybe) Extraterrestrial?"

**Dan Meisel**, director of the Radiation Laboratory and professor of Chemistry and Biochemistry presented an invited talk on "The NO<sub>x</sub> System in Homogeneous and Heterogeneous Nuclear Waste" at the DOE-Tanks Focus Area Mid-Year Review in Salt Lake City, March 13.

**Philip Mirowski**, Koch Professor of Economics, delivered the invited lecture "Alice through the Liquid Crystal: A Different Perspective on IT and the Economy" to the Kennedy School of Government, Harvard Univ., Jan. 29; a series of invited lectures to various groups at the Univ. of Paris, in March, including "Alice," "American Hegemony and Mathematical Formalism," "Alternative Futures of Computational Economics," and "On the Origins of Some Species of American Evolutionary Economics."

**Patrick E. Murphy**, chairperson and professor of marketing, presented "Competitive Intelligence on the Net: A Multinational Perspective on Ethical Practices," with S. Long-Tolbert, at Net Effects4 Conference sponsored by the European Society for Opinion and Marketing Research, in Barcelona, Spain,

Feb. 12; copresented "Protecting Online Privacy: The Role of Privacy Seals" with **Joan Phillips**, assistant professor of marketing, at the American Marketing Association Winter Marketing Educators' Conference, Scottsdale, Ariz., Feb. 18. Prof. Murphy also presented "Privacy in Market Research" at that conference.

**Darcia Navarez**, associate professor of psychology, was a reviewer of grant proposals to the U.S. Department of Education for Character Education Partnership grants in February.

**Jerome Neyrey**, professor of theology, hosted "The Context Group" at its annual meeting, March 14-18, where he presented "Spaced Out: 'Territoriality' in the Fourth Gospel."

**Catherine Perry**, assistant professor of romance languages and literature, was invited to present the paper "Intertexte Mythique et Communion Mystique dans *Désert de J.M.G. Le Clézio*," for a public event on the works of Le Clézio, held at the Embassy of France, Washington D.C., March 12.

**Charles E. Rice**, professor of law, presented "The Natural Law: Has It Been Replaced?" at St. Josephs on Capitol Hill, Washington, D.C., March 29.

**Hon. Kenneth F. Ripple**, professor of law, was an invited faculty member at the Pepperdine Judicial Clerkship Institute at Pepperdine Univ. School of Law, Malibu, Calif., Jan. 4-6.

**Steven Ruggiero**, associate professor of physics, copresented "Single-electron Tunneling in Metal Droplets in the High Conductance Regime," with S. Farhangar at the meeting of the American Physical Society, Seattle, on March 14.

**Victoria Sanford**, assistant professor of anthropology and Kellogg Institute fellow, was the guest speaker for the series "Utopia, Violence, Resistance: Remaking and Unmaking Humanity" at the Rutgers Center for Historical Analysis, Rutgers Univ., March 22-25, where she presented "Hope at the Margins: The Politics of Displacement and Healing in Guatemala and Colombia";

was co-organizer and cochair of "Salvage Anthropology": The Public Life of a Discipline" and presented "Hope at the Margins: Truth Commissions and Community Healing in Guatemala and South Africa" at the American Anthropological Association, San Francisco, Nov.; and was an invited panelist "Fieldwork in High Conflict Zones: Praxis, Ethics and Human Rights," special event of the American Anthropology Association Human Rights Committee, AAA annual meetings, San Francisco Nov. 16.

**Jonathan Saperstein**, professor of physics, presented "Two Loop Corrections to the Decay Rate of Orthopositronium using NRQED" at the Univ. of Delaware, Newark, March 19.

**Steven R. Schmid**, associate professor of aerospace and mechanical engineering, gave the invited seminar "Minimally Invasive Orthopedics and other Opportunities in Biomedical Engineering Research" at the Univ. of Washington, Seattle, on March 13.

**Mei-Chi Shaw**, professor of mathematics, presented "Estimates for  $\square b$  on  $CR$  Manifolds of Higher Codimension" in the analysis seminar at Princeton Univ., March 12, and also held a discussion session with the analysis group at the same university on March 13.

**Donald E. Sporleder**, professor emeritus of architecture, served as a invited member of the group of Jurors for the American Institute of Architects, AIA Grand Valley Michigan Chapter Annual Design Honor Awards Program; served as an invited member of the group of jurors for the Annual Indiana/Kentucky Golden Trowel Awards, sponsored by the International Masonry Institute; and participated in the 10th annual meeting of the Association of Practical and Professional Ethics, March 1-4, Cincinnati, where he served as invited chair of the session on professional ethics.

**Duncan Stroik**, associate professor of architecture, presented "The State of Ecclesiastical Architecture Today" at the National Building Museum, Washington, D.C., March 1; presented "Anciently Modern, Modernly Ancient:

The Relevance of Italian Architecture Today" at a symposium on Contemporary Classical Architecture sponsored by the Dept. of Architecture at Drexel Univ., Philadelphia, March 6.

**Steve Tomasula**, assistant professional specialist in English, exhibited "Subject(s) in Pedagogy: Beyond Reeling, Writhing, Uglification and Derision" at Columbia College Chicago Center for Book and Paper Arts, Jan. 12-March 3; presented the invited lecture "Poetics in the Paper Theater: A Fusion of Word and Image" at the School of the Art Institute of Chicago, Oct. 19; presented the paper "An Apology for Postmodern Prose" at the Craft, Critique, Culture: Interdisciplinary Conference on Writing, Sept. 29-Oct. 1 Univ. of Iowa, Iowa City.

**Arvind Varma**, Schmitt Professor of Chemical Engineering and director, Center for Molecularly Engineered Materials, presented an invited seminar titled "Inorganic Membranes for Separation and Reaction" at the Westhollow Technology Center, Shell Chemical Company, Houston, Feb. 1. He also presented an invited seminar titled "Combustion Synthesis of Advanced Materials" at the Dept. of Chemical Engineering, Univ. of California, Berkeley, Feb. 21.

**Rev. Oliver F. Williams, C.S.C.**, associate professor of management and Kroc Institute fellow, presented "A Religious Vision of Work" at the Associated Mennonite Biblical Seminary, Elkhart, March 15.

## Publications

**Klaus-Dieter Asmus**, professor of chemistry and biochemistry, coauthored "Radiation Chemical Studies of Fullerenes and Derivatives in Solution: Redox Processes, Excited States and Radical Reactions" with **Dirk M.**

**Guldi**, associate professional specialist in the Radiation Laboratory, published in *Nuclear and Radiation Chemical Approaches to Fullerene Science*, T. Braun, ed., Dordrecht, The Netherlands: Kluwer, 2000, pp. 87-106.

**David Aune**, professor of theology, wrote "The Bible and the Literature of Antiquity: The Greco-Roman Period," published in *The Harper Collins Bible Commentary*, J.L. Mays, ed., San Francisco: Harper San Francisco, 2000, pp. 58-64; "Revelation," *ibid.*, pp. 1187-1202; "Forward" in *The Letters to the Seven Churches of Asia in their Local Setting*, C.J. Hemer, Grand Rapids: Eerdmans, 2001, pp. xv-xxii; "Ephesus," "Greece" (with H. Svebakken), "Greek (Language)," "Hellenism," "Revelation, Book of," and "Rome," published in *Eerdmans's Dictionary of the Bible*, D.N. Freedman, ed., Grand Rapids: Eerdmans, 2000, pp. 413-415, 528-532, 532-533, 573-574, 1124-1127, and 1138-1142. He was also the consulting editor for the New Testament and Greco-Roman religions section of that title.

**Paul F. Bradshaw**, professor of theology, wrote "Anamnesis in Modern Eucharistic Debate," published in *Memory and History in Christianity and Judaism*, **Michael A. Signer**, Abrams Professor of Jewish Thought and Culture, ed., Notre Dame: University of Notre Dame Press, 2001, pp. 73-84.

**Bruce Bunker**, chairperson and professor of physics, coauthored "XAFS Studies of Gold and Silver-gold Nanoparticles in Aqueous Solutions" with T. Shibata, H. Tostmann, A. Henglein, **Dan Meisel**, director of the Radiation Laboratory and professor of chemistry and biochemistry, S. Cheong, and M. Boyanov, published in the *Journal of Synchrotron Radiation*, vol. 8, 2001, pp. 545-547.

**Ian Carmichael**, associate professional specialist in the Radiation Laboratory, wrote "Theoretical Studies on Sulfur-Containing Radical Ions," published in *Nukleonika*, vol. 4, no. 45, 2000, pp. 11-17.

**Lawrence Cunningham**, professor of theology, wrote "What do We Believe about Hell?" published in *U.S. Catholic*, April, pp. 12-17; "Religion Book Notes," published in *Commonweal*, vol. cxxvii, March 23, pp. 24-27; "Continuing the Conversation" published in *Memory and History in Christianity and Judaism*, **Michael A. Signer**, Abrams Professor

of Jewish Thought and Culture, ed., Notre Dame: University of Notre Dame Press, 2001, pp. 213-216.

**Richard W. Fessenden**, professor emeritus of chemistry and biochemistry, coauthored "Addition of Oxide Radical Ions ( $O^-$ ) to Nitrite and Oxide ions ( $O^{2-}$ ) to Nitrogen Dioxide" with **Dan Meisel**, director of the Radiation Laboratory and professor of chemistry and biochemistry, published in the *Journal of the American Chemical Society*, no. 122, 2000, pp. 3773-3774.

**Alejandro Garcia**, Grace-Rupley Professor of Physics, wrote "Electron-Capture Decays of  $^{100}\text{Tc}$  and  $^{116}\text{In}$  and Nuclear structure Relevant for 2b Decays," published in the *Czech. Journal of Physics*, no. 50, 2000, pp. 485-487; coauthored "Shape of the  $^8\text{B}$  alpha and Neutrino Spectra" with C.E. Ortiz, R. Waltz, M. Bhattacharya, and A. Komives, published in *Physical Review Letters*, no. 85, 2000, pp. 2909-2913; coauthored "New Limit on the D Coefficient in Polarized Neutron Decay" with L.J. Lising, S.R. Hwang, J.M. Adams, J.M. Anaya, T.J. Bowles, T.E. Chupp, K.P. Coulter, M.S. Dewey, S.J. Freedman, B.K. Fujikawa, G.L. Greene, **Gerald L. Jones**, director of the Chemical Physics Program and professor of physics, H.P. Mumm, J.S. Nico, R.G.H. Robertson, T.D. Steiger, W.A. Teasdale, A.K. Thompson, E.G. Wasserman, F.E. Wietfeldt, and J.F. Wilkerson, published in *Physical Review C*, no. 62, 2000, at 055501 (11 pages); coauthored "A Measurement of Gamow-Teller Strength for  $^{176}\text{Yb}$   $\rightarrow$   $^{176}\text{Lu}$  and the Efficiency of a Solar Neutrino Detector" with M. Bhattacharya, C.D. Goodman, R.S. Raghavan, M. Palarczyk, J. Rapaport, I.J. van Heerden, and P. Zupranski, published in *Physical Review Letters*, no. 85, 2000, pp. 4442-4446.

**Dirk M. Guldi**, associate professional specialist in the Radiation Laboratory, coauthored "Synthesis, Electrochemistry, Langmuir-Blodgett Deposition and Photophysics of Metal-coordinated Fullerene-porphyrin Dyads" with T. Da Ros, M. Prato, M. Carano, P. Ceroni, F. Paolucci, S. Roffia, and L. Valli, published in the *Journal of Organometallic Chemistry*, vol. 599, 2000, pp. 62-68;

"Photophysical Properties of Pristine Fullerenes, Functionalized Fullerenes, and Fullerene-containing Donor-bridge Acceptor Systems" with **Prashant V. Kamat**, professional specialist in the Radiation Laboratory, published in *Fullerenes: Chemistry, Physics, and Technology*, K.M. Kadish and R.S. Ruoff, eds., New York: John Wiley and Sons, Inc., 2000, pp. 225-281; "New p-extended Tetrathiafulvalene-containing Fulleropyrrolidine dyads Endowed with Vinyl Spacers" with M.A. Her-ranz, N. Martin, L. Sánchez, and C. Seoane, published in the *Journal of Organometallic Chemistry*, vol. 599, 2000, pp. 2-7; "Organic, Physical, and Materials Photochemistry" with M. Maggini, published in *Photo- and electroactive fulleropyrrolidines*, V. Ramamurthy and K.S. Schanze, eds., New York: Marcel Dekker, 2000, pp. 149-196; and "A New Approach to Supramolecular  $\text{C}_{60}$ -dimers Based in Quadruple Hydrogen Bonding" with J.J. González, S. González, E.M. Priego, C. Luo, J. de Men-doza, and N. Martin, published in *Chemical Communications*, no. 2, 2001, pp. 163-164.

**Linda Gutierrez, M.D.**, assistant professional specialist in the College of Science, coauthored "Expression of Interleukin-8 (IL-8) and IL-8 Receptor Type A (IL-8-RA) in Human Myometrium and Leiomyoma" with I. Sozen, L.M. Senturk, and A. Arici, published in the *American Journal of Obstetrics and Gynecology*, vol. 184, no. 4, March, pp. 559-566.

**Gregory V. Hartland**, associate professor of chemistry and biochemistry, coauthored "Photophysics of Nanometer Sized Metal Particles: Electron-phonon Coupling and Coherent Excitation of Breathing Vibrational Modes" with J.H. Hodak and A. Henglein, published in the *Journal of Physical Chemistry B*, vol. 104, no. 43, 2000, pp. 9954-9965; and "Photophysics and Spectroscopy of Metal Particles" with J.H. Hodak and A. Henglein, published in *Pure Applied Chemistry*, vol. 72, no. 1-2, 2000, pp. 189-197.

**Nai-Chien Huang**, professor of aerospace and mechanical engineering, coauthored "Interfacial Debonding of a Spherical Inclusion Embedded in an

Infinite Medium under Remote Stress" with M.Y. Korobeinik, published in the *International Journal of Fracture*, vol. 107, 2001, pp. 11-30.

**Prashant V. Kamat**, professional specialist in the Radiation Laboratory, coauthored "Semiconductor-metal Nanocomposites. Photoinduced Fusion and Photocatalysis of Gold-capped TiO<sub>2</sub> (TiO<sub>2</sub>/gold) Nanoparticles" with A. Dawson, published in the *Journal of Physical Chemistry B*, vol. 105, no. 5, 2001, pp. 960-966; "Assembling Gold Nanoparticles as Nanostructured Films using an Electrophoretic Approach" with N. Chandrasekharan, published in *Nano Letters*, vol. 1, no. 2, 2001, pp. 67-70; "Photosensitization Aspects of Pinacyanol H-aggregates. Charge Injection from Singlet and Triplet Excited States into SnO<sub>2</sub> Nanocrystallites" with S. Barazzouk, H. Lee, and S. Hotchandani, published in *Journal of Physical Chemistry B*, vol. 104, no. 15, 2000, pp. 3616-3623; "Complexation of Gold Nanoparticles with Radiolytically Generated Thiocyanate Radicals ((SCN)<sub>2</sub>•<sup>-</sup>)" with A. Dawson, published in the *Journal of Physical Chemistry B*, vol. 104, 2000, pp. 11842-11846; "Electrodeposition of C<sub>60</sub> Cluster Aggregates on Nanostructured SnO<sub>2</sub> Films for Enhanced Photocurrent Generation" with S. Barazzouk, K.G. Thomas, and S. Hotchandani, published in the *Journal of Physical Chemistry B*, vol. 104, no. 17, 2000, pp. 4014-4017; and "Combina-tive Sonolysis and Photocatalysis for Textile Dye Degradation" with N.L. Stock, J. Peller, and K. Vinodgopal, published in *Environmental Science and Technology*, 2000, vol. 34, pp. 1747-1750.

**Jay A. LaVerne**, professional specialist in the Radiation Laboratory, coauthored "Hydrogen Production in g-ray and Helium-ion Radiolysis of Polyethylene, Polypropylene, Poly(methyl-methacrylate), and Polystyrene" with Z. Chang, published in the *Journal of Polymer Science A: Polymer Chemistry*, vol. 38, 2000, pp. 1656-1661; "New Mechanism for H<sub>2</sub> Formation in Water" with **Simon M. Pimblott**, associate professional specialist in the Radiation Laboratory, published in the *Journal of Physical Chemistry*, vol. 104,

2000, pp. 9820-9822; and wrote "Track Effects of Heavy Ions in Liquid Water," published in *Radiation Research*, vol. 153, 2000, pp. 487-496.

**Ralph McInerny**, Grace Professor of Medieval Studies, director of the Maritain Center and professor of philosophy, wrote "Implicit Philosophy," published in *Topicos: revista de filosofia*, vol. 19, 2000, pp. 153-165; and "Introduction" to *Faith and Reason: The Notre Dame Symposium 1999*, T. Smith, ed., South Bend: St. Augustine's Press, 2001, pp. vii-xvii.

**Ernan McMullin**, O'Hara Professor Emeritus of Philosophy, wrote "Values in Science," published in *A Companion to the Philosophy of Science*, W. Newton-Smith, ed., London: Routledge, 2000, pp. 550-560; "Galileo Galilei," published in *The Oxford Companion to Christian Thought*, A. Hastings, ed., Oxford University Press, 2000, pp. 258-259; and "Integral Naturalism," published in *First Things*, no. 110, 2001, pp. 45-49.

**Darcia Navarez**, associate professor of psychology, coauthored "A Neo-Kohlbergian approach" with J.R. Rest M. Bebeau, and S. Thoma, published in the *Journal of Moral Education*, vol. 29, no. 4, 2000, pp. 381-395.

**Larry K. Patterson**, research professor emeritus of chemistry and assistant director of the Radiation Laboratory, coauthored "Interactions of Superoxide Anion with Enzyme Radicals: Kinetics of Reaction with Lysozyme Tryptophan Radicals and Corresponding Effects on Tyrosine Electron Transfer" with R. Santus, **Gordon L. Hug**, associate professional specialist in the Radiation Laboratory, M. Bazin, J.-C. Mazière, and P. Morlière, published in *Free Radical Research*, vol. 33, 2000, pp. 383-391.

**Joachim Rosenthal**, professor of mathematics, coedited *Codes, Systems and Graphical Models* with B. Marcus, New York: Springer-Verlag, 2001, 500 pp.; and wrote an article appearing in that volume, "Connections between Linear Systems and Convolutional Codes," pp. 39-66.

**Mayou Shang**, associate professional specialist in chemistry and biochemistry, coauthored "Self-assembly of a CuTIM(S<sub>2</sub>O<sub>7</sub>) Polymer: Synthesis and Crystallographic Studies" with S.K. Dutta, M. Shang, and **Guillermo Ferraudi**, professional specialist in the Radiation Laboratory, published in *Inorganica Chimica Acta*, vol. 312, 2001, pp. 226-230.

**Andrew J. Sommese**, Duncan Professor of Mathematics, coauthored "Ample Vector Bundles and Branched Coverings" with T. Peternell, published in *Communications in Algebra*, vol. 28, 2000, pp. 5573-5599.

**Steve Tomasula**, assistant professional specialist in English, wrote "C-U See-Me" in *The Iowa Review*, vol. 30, no. 3, winter, pp. 3-28; "Lullabies of Constraint" in *Fiction International*, no. 33, winter, pp. 157-167; "R.M. Berry, Dictionary of Modern Anguish" in *The Review of Contemporary Fiction*, vol. 20, no. 3, fall, pp. 135-136; "Dave Hickey and John de Fazio, Stardumb" in *Rain Taxi*, vol. 5, no. 4, winter, p. 29; and "Reading Rikki Ducornet" in *The Fan Maker's Inquisition* by R. Ducornet, New York: Ballentine, 2000, pp. 213-222.

**John A. Weber**, associate professor of marketing, coauthored "Emerging Technologies for Enhancing Supplier-Reseller Partnerships," with R. Mirani and D. Moore, published in *Industrial Marketing Management*, vol. 30, no. 2, 2001, pp. 101-114.

# Administrators' Notes

## Appointments

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**Julia Meister**, most recently a litigation attorney at Taft, Stettinius and Hollister in Cincinnati, has been appointed director of student services for the University of Notre Dame Law School. Meister will assist Associate Dean Vincent D. Rougeau with student activities and relations, including orientation and graduation.

## Honors

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**Harold Pace**, registrar, has been selected by the American Association of Collegiate Registrars and Admissions Officers (AACRAO) as its NCAA Division I interassociation representative. Pace will be responsible for communicating the association's positions, programs, and services and for preparing an annual report to the AACRAO president. He will serve on the NCAA Initial Eligibility Clearinghouse Committee, maintain a listserve for AACRAO members about issues related to academic compliance, and keep members informed about new legislation and proposed and final NCAA regulations. He also will coordinate annual meeting sessions relating to athletic-reporting compliance.



# Documentation

## FACULTY BOARD ON ATHLETICS December 14, 2000

**Members Present:** Prof. Fernand Dutile; Prof. Matthew Barrett; Prof. William Berry; Prof. JoAnn DellaNeva; Prof. Joseph Guiltinan; Dr. Kate Halischak; Prof. Blake Leyerle; Prof. James McAdams; Mr. Lou Nanni; Ms. Laura Patterson; (Rev.) Mark Poorman, C.S.C.; Prof. Kerry Thomas

**Members excused:** Dr. Kevin White; Prof. John Borkowski; Prof. Clark Power

**Observers present:** Ms. Sandy Barbour; Mr. Bernard Muir (both of the department of athletics); and Ms. Mary Hendriksen (recorder)

The chair called the meeting to order at 4:20 p.m. Father Poorman offered a prayer.

1. **Minutes:** Father Poorman moved to approve the minutes for the meeting of November 16, 2000. Prof. Leyerle seconded. A unanimous vote followed. The chair noted that a Board member had asked whether the minutes should omit the name of the person making an observation during Board deliberations. The discussion suggested two values in conflict here: accountability of Board members versus the possibility that debate might be stifled. The chair suggested that the first draft of the minutes carry specific names, with deletion from the final, official minutes upon request.

2. **Announcements:** The chair announced that he had approved, on the Board's behalf, the Spring 2001 schedule for men's golf.

The chair reported on his attendance at a meeting of the Performance Team within the department of athletics. At that meeting, discussion turned to the Board's class-miss policy, which often creates a problem for team schedules. Questions raised at that meeting: How fixed is our current policy? Could there be a "flex day" or a "wild-card day"? The chair responded that the Board felt very strongly in favor of its class-miss policy. Some members of the Performance Team inquired as to

whether coaches could appear before the Board or a subcommittee to discuss the matter. Responding to that request, the chair asked members of the Board to let him know their reaction to such an appearance.

At the Performance Team meeting, the possibility of exam-taking by students during travel to conference championships arose. At some institutions, apparently, a faculty member accompanies a team on road trips and administers examinations to athletes as close as possible to the prescribed examination time. Here again, the chair asked members of the Board to give him their reactions regarding such a possibility.

The chair reported on his attendance at a meeting of the Student Athlete Advisory Council on November 29. The major issue addressed at that meeting involved the honors banquet and the all sports banquet. The chair reported as well on the most recent meeting of the University Compliance Committee. Chaired by Carol Kaesebier, general counsel of the University, the committee meets quarterly and currently is attempting to work out its mission on campus. Several members of the Board serve on that committee.

The chair then asked that the following e-mail statement sent by him to members of the Board on November 27, 2000, be included in the minutes:

Dear Board Members: On October 24, I indicated to you in an e-mail that the Office of Residence Life had under consideration the cases of several student athletes implicated in a recent raid on a local bar. Father Poorman has notified me that these cases have now been adjudicated and sanctions have been imposed. For your information, these sanctions do not affect the student-athletes' continuing eligibility or other status with regard to their respective teams.

In light of the resolution of this matter, I see no need for further Board involvement. Nonetheless, should you have questions or concerns, please let me know.  
Tex



**3. Process for Implementing "Fifth Year of Eligibility."** Professor Guiltinan and Dr. Halischak led a discussion of the process for implementing the "fifth year of eligibility." The discussion, triggered in part by the allegation that one student-athlete had indicated to a (non-Board) faculty member that academic performance during that "fifth year" did not matter, included the academic requirements placed on such student-athletes. They must achieve a 2.0 GPA at mid semester to remain eligible for participation in sport, and complete the semester with a 2.0 GPA to be eligible for participation in post-season competition.

One member suggested that Notre Dame might better "red-shirt." Such a device would establish a five-year academic plan, carrying with it the leverage needed. The present system seems unrealistic, since students may not know about their "fifth-year" until February or even April of their senior year. Ms. Barbour pointed out that "red-shirting" still allows a coach to say, after four years, "I am not spending any more scholarship money on you." This creates a real problem for the student-athlete who is expecting a five-year academic career.

Prof. DellaNeva noted that part of the problem stems from the fact that one cannot add to one's degree after graduation; what if one could add a concentration in his or her major? Dr. Halischak pointed out that students like to get their degree with their classmates and, therefore, do not like putting off their undergraduate degree for a year. But during their "fifth-year," student-athletes might feel that academic performance is not important "because I already have my degree." The number of "fifth-years" is rising. A few years ago, only two or three would apply; this year we will have nine or ten. Father Poorman urged that Notre Dame stop its rhetoric about no "red shirting" if it systematically draws out its program for five years for certain student-athletes. Ms. Barbour noted, however, that injuries must be factored into the discussion. The chair found troublesome the observation of one Board member that some students return for their "fifth-year" only because coaches have asked them to.

Prof. McAdams emphasized that our Statement of Principles sets out a four-year experience as the norm for our student-athletes. While we may occasionally make exceptions, we can be proud of this policy. Continuing for a "fifth-year" should be seen as a privilege. He has, however, seen the applications, and they are not up to the standard of graduate-school applications. He would hate to see Notre Dame move to "red-shirting." Our current policy is important to our spirit. Prof. DellaNeva suggested one alternative: allowing a "fifth-year" only in good-faith graduate programs. Then the student-athlete would be qualified and interested. Prof. Guiltinan noted that a few Business School faculty already do not want to see any more "fifth-years." Ms. Barbour noted that pending NCAA legislation would require a 2.0 GPA for post-season play for all athletes. Dr. Halischak noted that "fifth-years" must register through DART late in the process, since they tend to be "unclassified" students. Accordingly, such student-athletes may be relegated to courses for which they are ill-prepared. Other Board members voiced concern that such students may be inadequately advised. Ms. Patterson indicated her belief that the University has failed "fifth years" in the disparity between what was promised and what occurred. At this point, Ms. Patterson moved that the "fifth-year" eligibility policy as a whole be revisited and that, meanwhile, the 2.0 GPA rule be suspended for the fall 2000 semester. Prof. McAdams seconded the motion. Additional discussion favoring suspension of the rule: Student-athletes may be unaware of the expectation, since the student-athlete handbook makes no mention of it. That the rule was inapplicable to undergraduate student-athletes also disturbed some Board members.

Prof. Barrett expressed grave concern about suspending the rule, noting that student-athletes were aware of the rule; the application form for a "fifth-year" specifically sets out the GPA requirements, and, on that same page, the student-athlete signs his or her name to acknowledge that "I accept these conditions . . . ." Additional discussion against suspension of the rule:

The issue presents an academic-integrity matter, both in substance and in appearance. After all, this Board action is being proposed during the examination period itself, and the rule's only impact at this time would be the potential disqualification of players from the Fiesta Bowl, which is but two weeks away.

A vote was then taken on the motion. In favor: 4. Opposed: 3. Abstaining: 1. At this point, the chair voted against the motion, thus creating a tie.

In light of the tie vote, and in further light of the compelling arguments on both sides, Mr. Nanni urged the chair to bring the matter to Father Malloy as soon as possible, so that he might decide the issue before Fall grades are submitted. The chair indicated that he would do so.

**4. Adjournment:** At 6:05 p.m., a motion to adjourn was made, seconded, and unanimously approved.

#### **FACULTY BOARD ON ATHLETICS February 8, 2001**

**Members Present:** Prof. Fernand Dutile (chair); Prof. Matthew Barrett; Prof. William Berry; Prof. John Borkowski; Prof. JoAnn DellaNeva; Prof. Joseph Guiltinan; Dr. Kate Halischak; Prof. Blake Leyerle; Mr. Lou Nanni; Ms. Laura Patterson; (Rev.) Mark Poorman, C.S.C.; Prof. Kerry Thomas; and Dr. Kevin White.

**Members Absent:** Prof. Jim McAdams; Prof. Clark Power.

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

The chair called the meeting to order at 4:20 p.m. Father Poorman opened the meeting with a prayer.

**1. Minutes:** Prof. Thomas moved that the minutes of the meeting of December 14, 2000, be approved. Prof. Berry seconded. A unanimous vote of approval followed.

**2. Announcements:** The chair reported on his attendance at the most recent meeting of the University Compliance Committee. That committee, which meets quarterly, is now focusing on the development and implementation of a coaches' orientation program. Every effort will be made to make the program a personalized one so that, in the words of committee member Mr. Nanni, each coach might "hear the music."

The chair reported on his attendance at the annual convention of the NCAA in January. The amateurism proposals now before the NCAA provided the most controversial issue for the meeting. That proposal calls for a shift from a money-based concept of amateurism to one based on continuity of education. The proposal would allow athletes to compete at the college level despite earlier prize money or other compensation received in connection with athletics. Nonetheless, for every year that the prospective student-athlete interrupts the acquisition of education, one year of eligibility is lost and, in any event, any student-athlete with a year's interruption must sit out one year in college before participating. (Current rules with regard to agents, however, remain in place and will be evaluated later). Among the reasons supporting a change: It has become very difficult to enforce current regulations, especially with regard to foreign athletes, concerning whom tracing prize money or other compensation presents a real challenge. Moreover, despite their rhetoric, universities continue to ask for waivers with regard to prize money and the like. The chair doubts that the NCAA will ultimately adopt the entire package, which still must go to the Management Council and then to the Board of Directors.

Another issue discussed at the NCAA convention: basketball summer camps. This issue arises from a fairly deep feeling that there are too many summer camps and too much commercial involvement in them. One possible help would be full disclosure with regard to financial implications.

At the convention, Cedric W. Dempsey, president of the NCAA, expressed his concern over the amount of money universities currently spend on sports and over the low graduation rates in the more visible sports. Finally with regard to the NCAA convention, the chair noted that the Board of Directors had appointed Father Malloy to a committee charged with overseeing the NCAA Football Study. One issue off the table in that study: a college-football playoff.

The chair reported on a meeting that he and members of the Board's Subcommittee on Student Welfare had with the Student Athlete Advisory Council with regard to athletic participation on Good Friday. The chair indicated that the discussion was both thorough and thoughtful. The same issue will be taken up at the February 13 coaches' meeting.

The chair noted the appointment of Bobby Clark as the new men's soccer coach. The chair, who served on the search committee, saluted Mr. James Phillips, associate athletics director, who headed the search. The chair indicated that, as is the Board's custom, a meeting between the Board and the new coach would be arranged.

The chair then asked that the following e-mail statement, sent by him to members of the Board on December 16, 2000, be included in the minutes:

Dear Board Members:

At our meeting Thursday, the vote on a motion to suspend application of the "2.0 GPA rule" for fifth-year student-athletes was: 4 for; 4 against; and 1 abstention. Although procedurally that vote kept the rule applicable, the split in the vote on such an important issue led to my bringing the matter to Father Malloy, whom the Board advises. He and I had a long and good discussion, one in which I tried to present fairly the arguments made by Board members on each side of the issue. Father Malloy believes that the closeness of our vote and the elements brought into the Board's discussion suggest serious problems with the fifth-year-of-eligibility process. Accordingly, he concludes that application of the "2.0 GPA rule"

should be suspended for the current academic year.

He does want the Board to revisit the fifth-year process next semester. This review should include a full look at our structures, including our instructions and counseling. We should also do a peer-benchmark analysis.

Finally, we should closely assess the academic record in Fall 2000 of those student-athletes who received a fifth-year-of-eligibility this year.

Should you have any questions about this, please let me know.

Tex

The chair noted that, as it turned out, none of the fifth-year football players fell below the mandated GPA for the Fall semester.

The chair announced that on December 19 he had approved, on the Board's behalf, the following captains for softball: Melanie Alkire, Danielle Klayman, Elizabeth Lemire, and Jennifer Sharron. This approval took place within the guidelines established at an earlier meeting by the Board.

The chair also noted for the record the approval of the Board, through an e-mail vote, of the following captains for baseball: Aaron Heilman, Andy Bushey, and Alec Porzel.

Also approved through an e-mail vote by the Board were the following women's lacrosse captains: Kathryn Lam, Alissa Moser, and Lael O'Shaughnessy.

The chair announced that he had approved a change in the baseball schedule. A game against Valparaiso University on April 24 will replace a previously scheduled game on May 2 against Oakland University. No class-misses were implicated by this change.

The chair also noted that he had approved the women's rowing schedule for spring 2001; the proposed schedule fell clearly within Board guidelines. Both the women's lacrosse schedule and the women's golf schedule, the

chair noted, had been approved through an e-mail vote of the Board.

The chair noted his approval of an addition to the swim-meet schedule, the Michigan Open on February 9-11, an addition made to help a few student-athletes qualify for the NCAA championships. Only seven student-athletes would compete in the Michigan Open and no class time was implicated.

Finally, the chair noted the e-mail approval of an amendment of the softball schedule that would allow the team an earlier departure on April 6, a change occasioned by the cessation of operations in South Bend of American Airlines; and the approval, again through an e-mail vote, of a 1 p.m. departure for the hockey team on a class day, even though the team's schedule otherwise used all class-miss days allowed by the Board's guidelines.

Prof. DellaNeve then moved that her February 6 e-mail message to members of the Board, strongly disapproving of the amendment of the hockey schedule, be included in the minutes. Father Poorman seconded the motion. The vote to approve was unanimous. (For that e-mail message, see the Appendix to these minutes).

**3. Application of Emily Bienko for a fifth-year of eligibility:** On Father Poorman's motion to approve a fifth-year of eligibility for Ms. Bienko, a first-year law student, and Prof. Leyerle's second, the Board voted to approve, with one abstention.

**4. Waivers of GPA requirements for off-campus seniors:** The Board next took up four applications for waivers of the GPA requirements with regard to off-campus residence for senior student-athletes on grants-in-aid. The current rule requires either a cumulative GPA of 2.7 or better, or a GPA of 3.0 or better in each of the spring 2000 and fall 2000 semesters. Each application prompted significant discussion on the part of the Board. Ultimately, the Board approved one application and denied the other three.

In connection with these applications, the Board addressed the general issue

of off-campus residence for student-athletes who are seniors. Prof. Borkowski stated his belief that the Board should not handle this type of issue and, indeed, that no exception to the GPA requirement should be made. Dr. White indicated his preference for a clear-cut rule. He could understand the argument for a more liberal senior-year rule—perhaps three years on campus, with no exceptions, with everyone allowed to live off campus during their senior year. His preference, though: Intercollegiate athletes should live on campus. Mr. Nanni indicated that the Board should take this issue up at a later date when more research has been done on the issue. He urged a formal application process: letters from the student-athlete, the coach, and the academic advisor. The chair noted that the issue would be brought to the Student Athlete Advisory Council. Prof. Barrett, noting that the University now finds itself on probation, asked whether anyone should live off campus. In any event, he disfavors exceptions. Father Poorman added his support for a bright-line rule. Until any further development on this issue, the Board, by consensus, authorized the chair to deny such applications, absent "extraordinary personal circumstances." Should that situation appear, the chair would then bring the matter to the Board.

**5. General discussion of fifth-year of eligibility:** The chair introduced the topic by recalling Father Malloy's request that our process of approval for student-athletes seeking a fifth-year of eligibility be reviewed. Prof. Guiltinan, chair of the Board's Subcommittee on Academic Integrity, indicated that the subcommittee was comfortable with the current policy. Nonetheless, the committee would certainly review the policy, although it preferred to focus that review on specific elements or concerns regarding the policy. To be sure, he added, the procedures for implementing the policy, as opposed to its substance, do present some problems.

Prof. Borkowski stated that the process needed dramatic improvement, though we are on the right track. He is not bothered by the term "red-shirting,"

since one cannot run a major football program without it. With regard to an assertion that a five-year program might help academically if a student-athlete could plan on spreading graduation requirements over that period, Dr. Halischak noted that a school cannot, under NCAA rules, guarantee the student-athlete a full five years of education; it can promise only one year at a time. Dr. White said that it is implied, when a student athlete comes to Notre Dame, that four years will be provided and that a fifth can be applied for. But the process does need to be studied, since student-athletes are confused about it. It would be helpful if the Board solicited the opinions of student-athletes, coaches, the Provost, and Father Poorman. Nonetheless, Dr. White added, he is not naive; he recognizes the need for leverage during a student-athlete's fifth-year. Dr. White, Father Poorman and Prof. Leyerle emphasized the benefit that would accrue to students if they could extend their education over a five-year period: They would take courses they are now afraid to take, and could better integrate into student life. But Mr. Nanni pointed out that, unless we were to discriminate among student-athletes, the policy would have to cover all twenty-six sports at Notre Dame. Ms. Barbour observed that students could not plan on the five years, since the coach wants to see the results of recruiting before inviting current seniors back for a fifth-year. Dr. White stated his belief that the system now in place benefits coaches and the University, but not the student-athletes. That is why some institutions make earlier decisions.

Prof. Barrett was concerned about exploitation of student-athletes; he stated that the deadline for offering a fifth-year to a student-athlete should arise before the recruiting season is over. Father Poorman added that the signing date for the National Football League is also important, since a football-playing student-athlete has to know whether a fifth-year is possible before that date passes. The chair, in light of this discussion, asked the Subcommittee on Academic Integrity to pursue the matter with Dr. White, coaches, Father Poorman, the Provost, and student-athletes. Dr. Halischak indicated that she would make a concrete proposal.

#### 6. Reports of ex-officio members:

Dr. Halischak, as director of Academic Services for Student Athletes, reported on the Fall 2000 performance of student-athletes. Of the 737 students on varsity teams, 275 (37%) made the Dean's List; this represents an increase of 4% over last spring semester. Twenty-one students achieved a 4.0 semester GPA, up from sixteen last spring. Seventeen students went on probation, down one from last spring. The overall semester GPA for all varsity athletes was 3.16 and the cumulative GPA for all varsity athletes was 3.06, both a slight increase from the previous semester.

Both men's and women's basketball had outstanding semesters, garnering semester GPAs over 3.0 for the first time ever in the fall semester. In football, several important improvements took place. The number of probations fell from an average of fifteen for the last five fall semesters to five this semester. Also, no first-year football player ended up on probation or failed a course. Indeed, this first-year class of football players earned the highest-ever semester GPA in relation to their SAT scores. Moreover, that GPA is the highest since Dr. Halischak has been keeping records. Of the upperclass football players, two-thirds had a semester average better than their cumulative average.

In response to this report, Father Poorman stressed the importance of publicizing the GPA-SAT ratio; otherwise, the report will be dismissed as attributable to grade inflation.

Dr. White congratulated Dr. Halischak for the "terrific" job done by her and her staff in connection with the academic work of all student-athletes.

The meeting was adjourned at 6:15 p.m.

#### APPENDIX

(Prof. DellaNeva's February 6 e-mail message to members of the Faculty Board on Athletics)

Dear all,  
Because I feel this is a very important matter—breaking a long-standing

policy that we continually affirm as a good thing about Notre Dame athletics—I do not feel this should be rushed through via e-mail.

However, since this seems to be the way this will be done, I am taking the liberty to write to all of you, in lieu of the discussion that I feel was seriously warranted.

Let me state from the outset that I firmly oppose this proposal and hence vote nay. Allow me to explain my reasons.

1. Nothing has changed since the time of our discussion to warrant a switch in votes. There are no airline cancellations, no bad weather requiring re-scheduling, or any other problem that could have warranted an exception based on matters beyond our control. Clearly we knew about this for a long time. Why wasn't this problem brought up in early January while there might have been time to make an adjustment that would still respect our class-miss policy?

2. As you recall, we came up with several different scenarios that would have salvaged the class miss policy, including chartering to the Alaska game. There are other ways to resolve this. The simplest would be to request that the game be postponed until 9 p.m. Has anyone attempted this? Why not? If we stick to our policy, as I firmly believe we should, which would require us to forfeit the game unless it is postponed, I suspect that accommodations could be made.

3. I appreciate the fact that Tex and Kevin will try to persuade the conference in future years to be cognizant of our policy. Given that, however, giving in right now makes no sense because it lowers our credibility and strips us of any negotiating power we might have. The conference will rightly reply that an exception was made in the past and that they simply expect us to continue to make exceptions. Forfeiting, however, will get their attention and give strength to our position.

4. We are setting a dangerous precedent here, one that is sure to erode our

"policy" even further down the road. Other teams will justifiably expect that we will make exceptions for them too. Before long there will be no policy to speak of. That would be a terrible thing, and it will be our own fault if we approve this.

5. I simply do not understand at all how this could be construed as a "student welfare issue." The welfare that we, as elected and appointed faculty members, need to be concerned about is the academic viability of our athletic program—nothing more, nothing less. We are, as I have repeatedly said, the \*only\* advocates for the student athletes qua students. There are many, many people looking out for their athletic best interests—and that is their job. Ours is to insure that students' academic programs are not compromised. Over the years we have agreed that one way of doing that is to enforce a firm class-miss policy. This is one of those times.

I should like my response to be incorporated into the minutes of our next meeting and to be attributed specifically to me.

JoAnn DellaNeva

## Departmental Awards Received and Proposals Submitted

In the period March 1, 2001 to March 31, 2001.

Category	AWARDS RECEIVED		PROPOSALS SUBMITTED	
	No.	Amount	No.	Amount
Research	35	\$4,212,876	35	\$11,123,487
Facilities and Equipment	0	0	0	0
Instructional Programs	1	123,856	0	0
Other Programs	0	0	0	0
Service Programs	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total	36	\$4,336,732	35	\$11,123,487

Category	FISCAL YEAR-TO-DATE CUMULATIVE AWARDS RECEIVED		FISCAL YEAR-TO-DATE CUMULATIVE PROPOSALS SUBMITTED	
	No.	Amount	No.	Amount
Research	319	\$43,786,052	438	\$191,118,133
Facilities and Equipment	0	0	0	0
Instructional Programs	10	994,582	1	11,500
Other Programs	1	25,000	0	0
Service Programs	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total	330	\$44,805,634	439	\$191,129,633

## Awards Received

In the period March 1, 2001 through March 31, 2001

### AWARDS FOR RESEARCH

#### Aerospace and Mechanical Engineering

##### Thomas C. Corke

Digital PIV System for Measurements and Modelling of  
Phased Plasma Actuators  
Department of Army  
\$95,660 12 months

##### Thomas J. Mueller

Phased Array Microphone System for Trailing Edge Noise  
Research  
Department of Navy  
\$67,100 12 months

#### Anthropology

##### Meredith S. Chesson

Early Urban Landscapes: Early Bronze Age Urban Society on  
the Kerak Plateau, Jordan  
National Science Foundation  
\$19,960 12 months

#### Assistant Provost for Computing

##### Nazareno L. Rapagnani

Internet2 and the Abilene Network  
Indiana University Bloomington  
\$360,000 36 months

#### Biological Sciences

##### Frank H. Collins

Cloning of Plasmodium-Refractoriness Genes in A. Gambiae  
National Institutes of Health  
\$352,335 12 months

##### Paul R. Grimstad

Arbovirus Surveillance Laboratory Service  
Indiana State Department of Health  
\$31,822 12 months

##### David M. Lodge

Waterfowl Herbivory  
Institute for Wetland and Waterfowl Research  
\$14,000 48 months

##### JoEllen J. Welsh

Vitamin D Mediated Apoptosis in Mammary Cells  
National Institutes of Health  
\$31,686 12 months

#### Chemical Engineering

##### Arvind Varma

Kinetics and Mechanisms of Rapid Heterogeneous Reactions  
During Combustion Synthesis  
National Science Foundation  
\$5,000 36 months

##### Arvind Varma

Inorganic Membranes; Design, Optimization and Reaction  
Studies  
National Science Foundation  
\$5,000 48 months

#### Chemistry and Biochemistry

##### Dennis C. Jacobs

Reactions of Energetic Ions with Thin Film Surfaces  
Department of the Air Force  
\$80,000 12 months

##### Marya Lieberman

Research Experience for Undergraduates—Nanoscale  
Chemistry at Notre Dame  
National Science Foundation  
\$63,336 24 months

##### Richard E. Taylor

Conformation-Activity Relationships  
National Institutes of Health  
\$167,625 12 months

#### Civil Engineering and Geological Sciences

##### Yahya C. Kurama

CAREER: Seismic Behavior and Design of Non-Emulative  
Precast Concrete Buildings with Supplemental Passive  
Energy Dissipation.  
National Science Foundation  
\$75,000 42 months

##### Clive R. Neal

Geochemical Evolution of the Moon and Meteorites  
National Aeronautics and Space Administration  
\$30,000 12 months

##### Joannes J. Westerink

ADCIRC Hydrodynamic Circulation and Transport Code  
Development  
Department of Army  
\$50,000 47 months

#### Electrical Engineering

##### Panos J. Antsaklis, Danny Z. Chen

e-Systems (Algorithms and Architectures)  
Lockheed Martin Corporation  
\$50,000 12 months

**Gary H. Bernstein, Gregory L. Snider**

Metal/Tunnel-Junction Quantum-dot Cellular Automata  
Cells without Bias Control  
Intel Corporation  
\$64,815 25 months

**Daniel J. Costello**

Error Control Coding Techniques for Space and Satellite  
Communications  
National Aeronautics and Space Administration  
\$70,000 12 months

**Daniel J. Costello, Oliver M. Collins, Peter C. Massey**

New Directions in Turbo Coding  
National Science Foundation  
\$120,000 24 months

**Wolfgang Porod, Craig S. Lent**

Nanoelectronics  
Arizona State University  
\$110,488 36 months

**Ken D. Sauer**

Statistical Methods for Tomographic Image Reconstruction  
and Analysis  
I.U. School Medicine  
\$31,248 24 months

**Alan C. Seabaugh**

Tunneling-Based Static Random Access Memory  
Intel Corporation  
\$85,601 24 months

**Gregory L. Snider, Alexei Orlov, Gary H. Bernstein**

Background-charge-insensitive Single-electron Memories  
Research Foundation of SUNY  
\$102,154 17 months

**Laboratory for Social Research****Felicia B. Le Clere**

Residential Enclaves and Health  
National Institutes of Health  
\$37,250 12 months

**Philosophy****James P. Sterba**

Ethics, Political Philosophy, Feminism, Environmental  
Ethics  
National Humanities Center  
\$42,000 8 months

**Physics****Ani Aprahamian**

Conception and Fielding of Nuclear Science Experiments  
Lawrence Livermore National Laboratory  
\$17,228 2 months

**David P. Bennett**

The Microlensing Planet Search Project  
National Aeronautics and Space Administration  
\$48,000 24 months

**James A. Glazier, Igor N. Veretennikov**

Diffusive Coarsening of Liquid Foams in Microgravity  
National Aeronautics and Space Administration  
\$75,215 45 months

**Walter R. Johnson**

Photoexcitation and Photoionization in Dense Plasmas  
Lawrence Livermore National Laboratory  
\$42,933 13 months

**James J. Kolata, Michael C. Wiescher, Umesh Garg, Alejandro Garcia, Ani Aprahamian**

Nuclear Structure Research  
National Science Foundation  
\$1,055,000 36 months

**Jonathan R. Sapirstein**

Weak and QED Radiative Corrections in Atomic Physics  
National Science Foundation  
\$38,210 36 months

**Sociology****Gilberto Cárdenas**

Berwyn/Cicero Hispanic/Latino Community Initiative in  
Education, Health and Family  
MacNeal Health Foundation  
\$733,710 12 months

**Theology****John Meier**

A Marginal Jew: Rethinking the Historical Jesus, Volume IV  
Association of Theological Schools  
\$20,000 12 months

**Eugene C. Ulrich, James C. VanderKam**

The Publication of Four Volumes of Dead Sea Scrolls  
Oxford Centre Hebrew Studies  
\$20,500 24 months

**AWARDS FOR INSTRUCTIONAL PROGRAMS****Biological Sciences****John G. Duman**

Studies of Antifreeze Proteins in Arctic and Nearctic Insects  
National Science Foundation  
\$123,856 12 months



## Proposals Submitted

In the period March 1, 2001 through March 31, 2001

### Aerospace and Mechanical Engineering

#### Eric J. Jumper

Propagating Potential Disturbances in Turbomachinery  
(Extension of F49620-99-1-0251)  
Department of the Air Force  
\$56,708 18 months

#### Timothy C. Ovaert, Thomas J. Mueller

Maritime Survivor Locator Device Technologies  
U.S. Coast Guard  
\$105,762 12 months

#### Joseph M. Powers, Samuel Paolucci

Multiscale Modeling of Combustion of Energetic Materials  
Los Alamos National Laboratory  
\$319,513 36 months

### Art, Art History and Design

#### Paul A. Down

Sabbatical Leave with Coachmen Industries/ProDesign  
Plastics  
Coachmen Industries  
\$30,000 9 months

### Biological Sciences

#### Scott D. Bridgham

Sources of Complexity in Peatland Biogeochemical Cycles:  
Theoretical Analyses and Experimental Tests  
University of Minnesota  
\$1,806,206 60 months

#### Frank H. Collins, David W. Severson

Malaria Control By Genetic Manipulation of Vectors  
National Institutes of Health  
\$670,167 12 months

#### Gary A. Lamberti

Landscape Influences on Stream Ecosystems: Implications  
for Restoration and Management  
U.S. Geological Survey  
\$93,508 24 months

#### Jennifer L. Tank, Gary A. Lamberti

Linking Marine-Derived Nutrients to Stream Ecosystem  
Function using a <sup>15</sup>N Tracer Addition Combined with an  
Experimental Salmon Carcass Addition  
National Science Foundation  
\$26,414 4 months

#### Martin Tenniswood

Molecular Mechanisms of Metastatic Progression in Breast  
Cancer  
Komen Breast Cancer Foundation  
\$105,000 36 months

#### Martin Tenniswood

Clusterin and Breast Cancer  
Komen Breast Cancer Foundation  
\$30,000 24 months

#### Martin Tenniswood

Apoptosis and Tumor Progression Following Anti-Androgen  
Therapy for Prostate Cancer  
Department of Army  
\$557,493 36 months

#### Kevin T. Vaughan

Regulation of Cytoplasmic Dynein Targeting  
National Institutes of Health  
\$310,750 12 months

#### JoEllen J. Welsh

Impact of Vitamin D3 Receptor on Mammary Carcinogenesis  
Komen Breast Cancer Foundation  
\$30,000 24 months

#### JoEllen J. Welsh

SERM and Phyto-Estrogen Regulation of Vitamin D Signaling  
Eli Lilly Company  
\$30,000 12 months

### Chemical Engineering

#### Agnes E. Ostafin

Photochemistry and Photophysical Behavior of Molecules  
Inside Nano-Sized Silica Shells  
Department of Energy  
\$442,833 36 months

### Chemistry and Biochemistry

#### Francis J. Castellino

Blood Coagulation Protein Metal Ion Lipid Interactions  
National Institutes of Health  
\$343,906 12 months

### Civil Engineering and Geological Sciences

#### Patricia Maurice

Chemical Weathering and Microbial Ecology in Antarctic  
Streams: The Role of Liquid Water and Hyporheic Zone  
Exchange  
National Science Foundation  
\$1,403,807 60 months

#### Patricia Maurice

Dissolution of Fe(III)(Hydr) Oxides by Aerobic  
Microorganisms  
Department of Energy  
\$42,469 22 months

**College of Science****Mark A. Suckow**

Role of the Antiangiogenic Isoflavone Genistein on  
Development of Autochthonous Prostate Cancer  
Department of Army  
\$333,722 36 months

**Electrical Engineering****Daniel J. Costello, Thomas E. Fuja**

Bandwidth Efficient Code Designs Using Turbo-Like Codes  
Motorola  
\$24,720 12 months

**Daniel J. Costello**

Research in Bandwidth Efficient Turbo Coding  
Massachusetts Institute of Technology  
\$25,000 12 months

**Film, Television, and Theatre****Jill Godmilow**

Animal Farm: An Experimental Documentary  
Rockefeller Foundation  
\$35,000 12 months

**Kellogg Institute for International Studies****Christopher J. Welna**

Building Capacity for Social Progress: A Partnership for  
Leadership Development  
Department of Education  
\$200,120 48 months

**Music****Susan L. Youens**

A Social History of the Lied  
J.S. Guggenheim Memorial Foundation  
\$35,000 12 months

**Philosophy****James P. Sterba**

Ethics, Political Philosophy, Feminism, Environmental  
Ethics  
National Humanities Center  
\$42,000 8 months

**Physics****Albert-László Barabási**

Structure and Dynamics of Human-Natural Food Webs:  
Theoretical Advances with Applications to Marine  
Ecosystems  
San Francisco State University  
\$481,179 60 months

**Boldizsar Janko**

Graduate Student Support  
Argonne National Laboratory  
\$47,156 12 months

**Boldizsar Janko, Jacek K. Furdyna, Malgorzat Dobrowolska-Furdyna**

Formation and Physical Properties of Spin-Polarized  
Nanostructures at Interfaces of Superconductors and  
Magnetic Semiconductors  
Department of Energy  
\$855,215 36 months

**Psychology****Julianne C. Turner**

Using Goal Orientation Theory as a Framework for  
Understanding the Antecedents and Consequences of  
Middle School Teachers' Sense of Personal Teaching  
University of Michigan  
\$88,482 30 months

**Radiation Laboratory****Prashant V. Kamat, Gorakh Nath R. Tripathi, Ian C. Carmichael, Albert E. Miller**

Organized Assemblies of Metal Nanoparticle-Fluorophore  
Superstructures  
Department of Energy  
\$1,045,235 36 months

**Dan Meisel, Bruce A. Bunker, Gregory V. Hartland, J.D. Gezelter**

Phases and Interfaces in Nanoparticles  
Department of Energy  
\$1,368,182 36 months

**Snite Museum of Art****Ann M. Knoll**

MAP-Collections Management Assessment  
Institute for Museum and Library Services  
\$1,775 12 months

**Sociology****David A. Yamane**

Becoming Catholic: Ritual and Experience in the Rite of  
Christian Initiation of Adults  
Louisville Institute  
\$49,670 12 months

**South Bend Center for Medical Education****Edward E. McKee**

Effect of Antibiotics on Mammalian Mitochondrial Protein  
Synthesis  
I.U. School Medicine  
\$46,495 7 months

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**Theology****John Meier**

A Marginal Jew: Rethinking the Historical Jesus, Vol IV

National Endowment for the Humanities

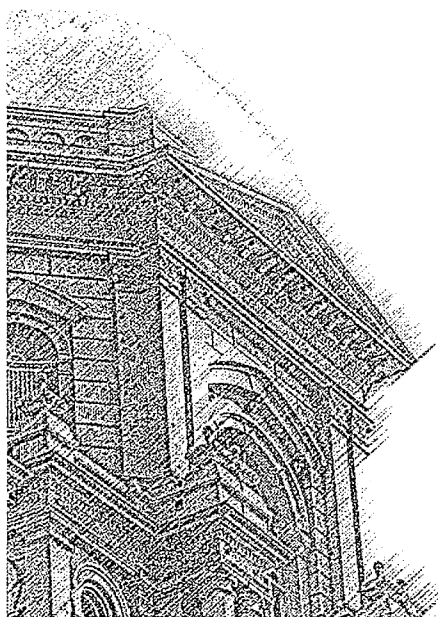
\$40,000

12 months

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# Notre Dame Report

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