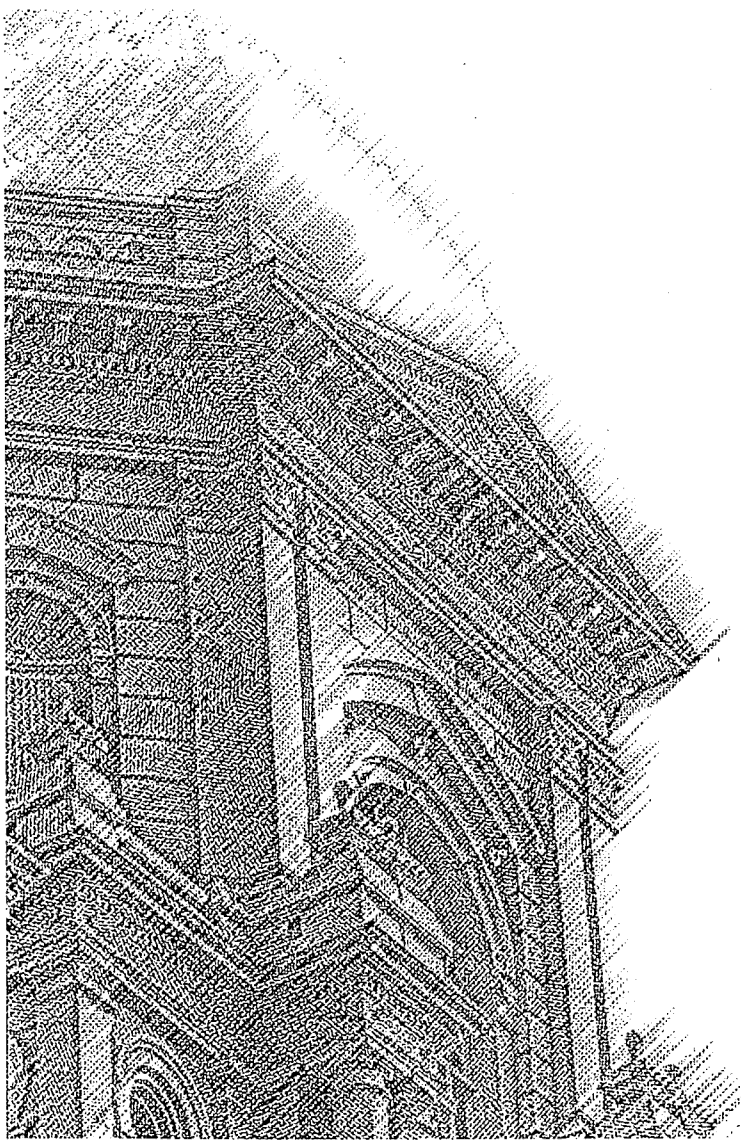
Notre Dame Report



The University

Faculty Notes

Administrators' Notes

Documentation

Research

AUGUST 24, 2001

NUMBER 1

The University

ND Wins CASE Awards

The University won six awards from the Council for Advancement and Support of Education (CASE). The Development Office won two Seal of Excellence Awards in philanthropy for the endowed chair recognition program and for the recently completed capital campaign, "Generations." *Notre Dame* magazine earned a gold medal in the special issues category for the summer 2000 issue titled "The Creative Life" and a silver medal for visual design in print for work by Art Director **Don Nelson** on an essay in the autumn 2000 issue.

A video highlighting the University's commitment to the poor won a silver medal, as did a logo for the Irish Angels. The video was produced by **Heather Gollatz**, assistant director of photographic and television productions, and the logo was created by **Tim Legge**, a graphic designer in University Communications Design.

CCE Wins Award

The Center for Continuing Education (CCE) received a 2001 Pinnacle Award for outstanding conference center facilities from the readers of *Successful Meetings* magazine. The awards are widely regarded as the most credible and prestigious symbols of excellence among meeting planners and hoteliers, with more than 75,000 corporate and associate buyers casting ballots to determine the winners.

Resident Life / Student Residences Offices Merge

The offices of Residence Life and Student Residences merged July 1. The new entity, Residence Life and Housing, is responsible for housing assignments for the undergraduate and graduate students, training and development for residence hall staff, educational and social programming in halls, student disciplinary matters, publication of *du Lac, A Guide to Student Life,* and support services for students.

Online Research Magazine Launched

The University has launched a research magazine on the World Wide Web to showcase the breadth and depth of faculty and student research, scholarship, creativity, and teaching. The magazine, *Lumen,* is Notre Dame's first all-electronic publication and is one of only a handful of university research magazines published exclusively on the Web. The URL is http://lumen.nd.edu.

Faculty Notes

Faculty Honors

Katharina J. Blackstead, librarian, has been appointed to the Trends, Marketing, and Project Development Committee of the Library Administration and Management Association, Fund-raising and Financial Development Section for a two-year term.

Rev. Theodore M. Hesburgh, C.S.C., was selected by the Indiana Historical Society as an Indiana Living Legend. The Historical Society honors Hoosiers who have made significant contributions to the state or society through their personal or professional endeavors.

Edward A. Kline, professor emeritus of English, was recently elected vice president of the Citizen's Advisory Council of WAUS-FM (90.7), the classical music station of Andrews Univ., Berrien Springs, Mich.

Kenneth W. Milani, professor of accountancy, had his paper, "Northrop Grumman's Four-Tier Approach to Earning Value" selected to receive the Lybrand Silver Medal for the outstanding article of the year in *Strategic Finance.*

H. Fred Mittelstaedt, professor of accountancy, was awarded the 2000–2001 Arnie Ludwig Outstanding Teacher Award.

Rev. John. H. Pearson, C.S.C., director of the White Center on Law and Government and associate professor of law, will be serving as president of the Notre Dame Chapter (Epsilon of Indiana) of the Phi Beta Kappa Society from now until the summer of 2003.

Wolfgang Porod, professor of electrical engineering and director, Center for Nano Science and Technology, has been named a Distinguished Lecturer for the Circuits and Systems Society of the Institute of Electrical and Electronics Engineers (IEEE).

John E. Renaud, assistant professor of aerospace and mechanical engineering, was awarded a JSPS Short-Term Invitational Fellowship for Research in Japan by the Japan Society for the Promotion of Science (JSPS) for the period May 9–23.

John A. Weber, associate professor of marketing, was named an honorary member of the Notre Dame Class of 1981 in a ceremony in the Monogram Room of the Joyce ACC celebrating the 20th reunion of the Notre Dame Class of '81, June 8.

Faculty Activities

Asma Afsaruddin, assistant professor of classics and fellow at the Kroc Institute, presented the paper "The Role of Knowledge in Sunni-Shi`i Discourse on Legitimate Leadership" at the annual conference of the British Society for Middle Eastern Studies held at the Institute for Advanced Study of Islam and the Middle East, Univ. of Edinburgh, Edinburgh, Scotland on July 17.

Mark S. Alber, professor of mathematics, presented an invited talk, "On Modeling Cell Alignment in Biology" at a mini-symposium, "Nonlinear Dynamical Systems Control with Applications to Biology" at the Fifth SIAM Conference on Control and Its Applications, San Diego, July 12.

Panos J. Antsaklis, professor of electrical engineering and director of the Center for Applied Mathematics, presented the paper "Switched Systems Optimal Control Formulation and a Two Stage Optimization Methodology," at the 9th Mediterranean Conference on Control and Automation, Dubrovnik, Croatia, June 27–29; and "Hybrid Supervisory Control for Networks of Embedded Systems" at the Univ. of Patras, Greece on July 12.

J. Douglas Archer, associate librarian, presented "Filtering through Internet Issues" with M. Roblee at the Middlebury Community Library, June 28.

Peri E. Arnold, professor of government and international studies, was convenor and presenter on a panel titled "Contextual Effects on White House Organization" at a conference, "New Directions in Researching the White House,"

May 18–19, at the Center for Presidency Studies, Texas A&M Univ., College Station; and was also a guest for a discussion of the nascent Bush presidency on the Milt Rosenberg show, "Extension 720," April 6,WGN Radio, Chicago.

Robert N. Barger, adjunct associate professor of computer applications, had a paper entitled "A Court Case on Catholic Labor Doctrine: Subsidiarity vs. Compelled Union Contributions" accepted for the conference: "Work as Key to the Social Question" to be held on September 12–15 at Vatican City State and on the Gemelli campus of the Univ. of the Sacred Heart, Rome.

Alicia M. Beatty, research associate professor of chemistry and biochemistry, presented an invited talk, "Design Strategies for Lamellar Materials, or 'What I've Engineered for You Lately'" at the American Crystallographic national meeting, Los Angeles, July 21.

Sr. Eleanor Bernstein, C.S.J., associate professional specialist and director of the Center for Pastoral Liturgy, and **Anne Y. Koester**, associate professional specialist in the Center for Pastoral Liturgy, oversaw the annual liturgy conference at Notre Dame, June 18–22, entitled "Liturgy and Justice: To Worship God in Spirit and Truth."

Jianguo Cao, professor of mathematics, presented "The Spectrum of Non-compact Manifolds with Big Ends" at the Institute for Mathematics and its Application, Univ. of Minnesota, Minneapolis, July 19.

Daniel M. Chipman, professional specialist in the Radiation Laboratory, presented a seminar "Incorporation of Solvation Effects into Electronic Structure Calculations" at the Pacific Northwest National Laboratory, Richland,Wash., July 30.

Olivia Remie Constable, associate professor of history, presented a paper entitled "Christian Merchants and Merchant Communities in Tunis in the 13th Century," at the International Medieval Congress, Univ. of Leeds, England, on July 10.

Thomas F. Cosimano, professor of finance, presented "Conduct of Monetary Policy Under the Basil Accord" at the summer meeting of the Econometric Society in Washington, D.C., June 22.

James T. Cushing, professor of physics, presented "Quantum Mechanics: Historical Contingency, Determinism and Non-Locality" in the Templeton Oxford Seminars on Science and Christianity at Oxford University, United Kingdom, July 16–20.

Jay P. Dolan, professor of history, presented "From Charity to Justice: The Rise of a Catholic Social Gospel," the keynote address at the meeting of the Catholic Health Association, Atlanta, June 10; the same title again at the Pastoral Liturgy Conference, Notre Dame, June 18; and "Teaching Irish American History" at the American Conference for Irish Studies, Fordham Univ., June 7.

William G. Dwyer, Hank Professor of Mathematics, gave an invited talk, "Homotopy Limits," at a London Mathematical Society topology conference, Univ. of Aberdeen (Scotland), June 19; and presented the opening lecture, "Classifying Fibrations of Functors," at the International Conference on Algebraic Topology, Isle of Skye (Scotland), June 25.

Leonid Faybusovich, professor of mathematics, gave the colloquium talk "New Approaches to Semi-infinite Programming" at the Tokyo Institute of Statistical Mathematics, on June 27; was an invited speaker in the "Optimization Workshop at Tokyo Institute of Technology" held on June 29–30; presented "On Nesterov's Approach to Semi-infinite Programming"; and was an invited speaker in the Symposium Mathematical Optimization Theory and Algorithms, held in the Research Institute of Mathematical Sciences, Kyoto, Japan, where he presented "Self-concordant Barriers for Cones Generated by Chebyshev Systems" on July 18.

Richard W. Garnett, assistant professor of law, presented "Education Reform, School Choice, and the Constitution" at the Summer Certificate Program of Catholic School Management, Notre Dame, July 30.

Joachim Görres, research professor of physics, gave the invited talk "Breakout from the CNO cycles" at the 33rd Great Lakes Joint Regional Meeting, American Chemical Society Conference, Grand Rapids, June 11–13.

Capt. David G. Hanson, assistant professor of aerospace studies, was the Commandant of Cadets (COC) during an Air Force ROTC Field Training Encampment for six weeks this summer at Lackland Air Force Base in San Antonio, Tex., where he was responsible for overseeing all military training for the 600 cadets attending each four-week camp.

Roger F. Jacobs, professor of law, law librarian, director of research in the Law Library, and associate dean for Research and Information Services, and **Dwight B. King Jr.**, law librarian, spoke on a panel discussion titled "David In, Goliath Out? Do We Need Larger Libraries to Accommodate More Books?" at the 94th annual meeting and conference of the American Association of Law Libraries, June 14–19, in Minneapolis.

Barry Keating, professor of finance, presented two papers titled "Event Modeling and the Supply Chain" and "The Role of Regression in Enterprise Resource Planning Models" at the annual meeting of the Institute of Business Forecasting, Orlando, Fla., June 28 and 29; and was the keynote speaker at the annual meeting of the Ohio Foundation for Independent Colleges: "Authentic Learning and Business Simulations," July 11 and 12, in Columbus.

Edward J. Maginn, associate professor of chemical engineering, presented "Adsorption in Functionalized Mesoporous Silica: Experimental and Molecular Modeling Studies" (coauthored with R.I. Nooney) at the Seventh International Conference on the Fundamentals of Adsorption, Nagasaki, Japan, May 22; and gave an invited talk entitled "Molecular Dynamics Methods for Quantitative Thermophysical Property Calculation" at the Workshop on Predicting the Thermophysical Properties of Fluids by Molecular Simulation held at the National Institute of Standards and Technology, in Gaithersburg, Md.,on June 18.

Rev. Don McNeill, C.S.C., professional specialist and executive director for the Center for Social Concerns and concurrent associate professor of theology, presented a talk on "Service Odyssey and Henri Nouwen's Spirituality" to the Rockford Alumni Club in Belvidere, Ill. on July 12.

Juan Migliore, professor of mathematics, gave the invited talk "Lex-Segment Ideals, Liaison and the Weak Lefschetz Property" at the conference COCOA VII: Computational Commutative Algebra at Queen's Univ., Kingston, Ontario on July 19.

Kevin M. Misiewicz, associate professor of accountancy, was a member of the organizing committee for the conference "Addressing e-Business Issues in Your Curriculum" sponsored by Ernst & Young and the American Accounting Association, Palo Alto, May 21–23.

Peter R. Moody Jr., professor of government and international studies, gave a presentation on "Neo-Conservative Trends in Contemporary Chinese Thought" at a seminar on Ideological Trends in Contemporary China, at the Woodrow Wilson Center, Washington, D.C., June 5; "The American Political System and Process" and "The American Legal System" at the Shinto Program for Business People from Japan, Mendoza College for Business, Notre Dame, June 12; and spoke on current Chinese ideological developments on the Voice of America Mandarin-language program, "Perspectives on China," on June 28.

Samuel Paolucci, professor of aerospace and mechanical engineering, presented a paper entitled "A Petrov-Galerkin Method for Flows in Cavities" at the First MIT Conference on Computational Fluid and Solid Mechanics, Cambridge, Mass., June 12–15.

Wolfgang Porod, professor of electrical engineering and director, Center for Nano Science and Technology, presented an invited talk, "Towards Nanoelectronic Circuits: CMOS, SETs, and QCAs" at the 2001 Silicon Nanoelectronics Workshop, Kyoto, Japan, June 10–11 .

Joseph M. Powers, associate professor of aerospace and mechanical engineering, presented a seminar, "Multi-scale Modeling of Viscous Hydrogen/Oxygen/Argon Detonation" in the Dept. of Physics at Washington State Univ. in Pullman, June 26; and presented a paper entitled "Reactive Flow Calculations with Intrinsic Low Dimensional Manifold Corrections for Convection and Diffusion," coauthored with **Samuel Paolucci**, professor of aerospace and mechanical engineering, and S. Singh at the 18th International Colloquium on the Dynamics of Explosions and Reactive Systems in Seattle, Wash., July 29 through Aug. 3, where he was also session chair of the session "Chemistry in Flames II."

Karen Richman, assistant professor of anthropology, presented "The Migrant's Song" at the Newberry Library Fellows Seminar, Chicago, June 25.

Dennis M. Snow, professor of mathematics, gave a lecture entitled "The Automorphism Group of a Complex Homogeneous Manifold" during the 39th meeting of the Clavius Group at the Institute for Advanced Study, Princeton, July 15–21.

Anthony M. Trozzolo, Huisking Professor Emeritus of Chemistry and Biochemistry, as the founder and first chair of the Gordon Research Conference on Organic Photochemistry, presented an invited talk, "The Gordon Conference on Organic Photochemistry: A Historical Retrospective" at the 20th conference, Connecticut College, New London, July 15–20.

Thomas S. Vihtelic, research assistant professor, presented the poster "Zebrafish Ocular Lens Mutants Exhibit Defects in Lens Cell Differentiation, Degeneration, and Cell Proliferation," coauthored with Y. Yamamoto, W. Jeffery, and **David R. Hyde**, professor of biological sciences, at the Second Midwest Zebrafish Meeting held at the Univ. of Minnesota, St. Paul, July 6–8.

Rev. Oliver F. Williams, C.S.C., associate professor of management, presented "Ethical Issues for MBA Students in Job Interviewing" to the Graduate School of Business, Univ. of Cape Town, May 22; presented "The Pharmaceutical Companies and HIV/AIDS in South Africa: Moral Responsibility" to the Graduate School of Business Research Seminar Series, Univ. of Cape Town, June 6; presented the United States South Africa Health Reporting Awards sponsored by the United States South Africa Leadership Development Program, the U.S. Government, and the Pretoria Press Club at the Newsmaker of the Year Banquet, Pretoria, South Africa, June 12; chaired the session on "Good Corporate Governance: A Fundamental Value for Citizenship in South Africa" at the conference on Defining a New Citizenship for South Africa and the Fundamental Values That Will Shape It, St. Augustine College of South Africa, June 14; presented "Current Trends in Business Ethics" to the Ethics Center of the Univ. of Natal, Pietermaritzburg, South Africa, June 18; and presented "The Pharmaceutical Companies and HIV/AIDS in South Africa: Moral Responsibility" to the Center for Leadership Studies of the Univ. of Natal, Durban, South Africa, June 19.

Samir Younés, associate professor of architecture and director of Rome Studies, participated in the final architectural jury at the Univ. Catolica Portoguesa, in Viseu, Portugal, on July 26.

Faculty Publications

Panos J. Antsaklis, professor of electrical engineering and director of the Center for Applied Mathematics, coauthored "An Invariant Based Approach to the Design of Hybrid Control Systems" with J.A. Stiver and X.D. Koutsoukos, published in a *Special Issue on Hybrid Systems in Control, International Journal of Robust and Nonlinear Control* 11, no. 5 (2001): 453–478; "A Method for the Synthesis of Liveness Enforcing Supervisors in Petri Nets" with M.V. Iordache and J.O. Moody, published in the *Proceedings of the American Control Conference* (June 2001): 4943–4948; "Switched Systems Optimal Control Formulation and a Two Stage Optimization Methodology" with X. Xu, published in the *Proceedings of the 9th Mediterranean Conference on Control and Automation, Dubrovnik, Croatia, June 27-29, 2001;* "Generalized Conditions for Liveness Enforcement and Deadlock Prevention in Petri Nets" with M.V. Iordache, published in *Application and Theory of Petri Nets 2001*,

Lecture Notes in Computer Science 2075 J.-M. Colom and M. Koutny, eds. (Berlin: Springer, 2001): 184–203; "Characterization of Stabilizing Switching Sequences in Switched Linear Systems using Piecewise-Linear Lyapunov Functions" with X.D. Koutsoukos, ibid., M. Di Benedetto, A. Sangiovanni-Vincentelli eds., vol. 2034, pp. 347–360; and "Recent Developments for Control in Precision Agriculture" with N.Sigrimis, published in the *Proceedings of IFDICON 2001-European Workshop on Intelligent Forecasting, Diagnosis and Control, Santorini, Greece, June 25–27, 2001.*

Peri E. Arnold, professor of government and international studies, coauthored "The White House Office of Management and Administration," with C.E. Walcott and B.H. Patterson Jr., published in *Presidential Studies Quarterly* 31, no. 2 (June 2001): 190-220. He also reviewed *The Presidency and Domestic Policy: Comparing Leadership Styles, FDR to Clinton,* by W.W. Lammers and M.A. Genovese in *American Political Science Review*, 95, no. 1 (March 2001): 214-215.

Joseph P. Bauer, professor of law, wrote "The Stealth Assault on Antitrust Enforcement: Raising the Barriers For Antitrust Injury and Standing," published in the *University of Pittsburgh Law Review* 62, no. 3 (Spring 2001): 437-452.

Alicia M. Beatty, associate research professor of chemistry and biochemistry, coauthored "Selective Recognition of an Alkali Halide Contact Ion-Pair" with J.M. Mahoney and **Bradley D. Smith**, professor of chemistry and biochemistry, published in the *Journal of the American Chemical Society* 123 (2001): 5847–5848.

Jeffrey H. Bergstrand, associate professor of finance, coauthored "The Growth of World Trade: Tariffs, Transport Costs, and Income Similarity" with **Scott L. Baier**, assistant professor of finance and business economics, published in the *Journal of International Economics* 53, no. 1 (2001): 1-27.

Robert D. Bretz Jr., chair and professor of management, coauthored "Personality and Cognitive Ability as Predictors of Job Search Among Employed Managers" with J.W. Boudreau, W.R. Boswell, and T.A. Judge, published in *Personnel Psychology* 54, (2001):25–50.

Francis J. Castellino, dean of science, Kleiderer-Pezold Professor of Chemistry and Biochemistry, and director of the Center for Transgene Research, coauthored "Conversion of Glu-Plasminogen to Lys-Plasminogen is Necessary for Optimal Stimulation of Plasminogen Activation on the Endothelial Cell Surface" with Y. Gong, S.-OK Kim, J. Felez, D.R. Grella, and L.A. Miles, published in the *Journal of Biological Chemistry* 276 (2001): 19078–19083; and "Structure and Binding Determinants of the Recombinant Kringle-2 Domain of Human Plasminogen to an Internal Peptide from a Group A *Streptococcal* Surface Protein" with J.L. Rios-Steiner, M. Schenone, I. Mochalkin, and A. Tulinsky, ibid. 308, 705–719.

Olivia Remie Constable, associate professor of history, wrote "Foreigners, Funduq, and Alhóndiga: Institutional Continuity and Change in Seville before and after 1248," published in *Sevilla 1248,* M. González Jiménez, ed. (Seville: Fundacion Ramon Areces, 2000): 517–532.

Sarvanan Devaraj, assistant professor of management, coauthored "An Empirical Comparison of Scale Validation Approaches" with S. Ahire, published in *IEEE Transactions on Engineering Management* 48, no. 3 (August).

Jay P. Dolan, professor of history, wrote "Irish Americans," published in the *Encyclopedia of American Cultural and Intellectual History* 2, M.K. Cayton and P. Williams, eds. (New York: Charles Scribner's Sons, 2001): 355–362; "Roman Catholicism," published in *The Oxford Companion to United States History,* P. Boyer, ed. (New York: Oxford University Press, 2001): 673–674; "Catholicism," published in the *Encyclopedia of the U.S. in the Nineteenth Century* 1, P. Finkelman, ed. (New York: Charles Scribner's Sons, 2001): 182–186; and "United States Catholic History: The American Catholic," published in *Catechist* 34 (Sept. 2000): 80–84.

Leonid Faybusovich, professor of mathematics, coauthored "A Long-step Primal-dual Algorithm for the Symmetric Programming Problem" with R. Arana, published in *Systems and Control Letters* 43 (2001): 3–7.

Guillermo J. Ferraudi, professional specialist in the Radiation Laboratory, coauthored "Mechanism of Redox Reactions between SO3 *- Radicals and Transition-Metal Macrocyclic Complexes: Oxidative Addition to the Ligand and Outer-Sphere Electron Transfer" with S.K. Dutta, published in the *Journal of Physical Chemistry A* 105, no. 17 (2001): 4241–4247.

Richard W. Garnett, assistant professor of law, wrote "The Story of Henry Adams's Soul: Education and the Expression of Associations," published in *85 Minnesota Law Rev. 1841* (2001).

John F. Gaski, associate professor of marketing, wrote "Normative Marketing Ethics *Redux,* Incorporating a Reply to Smith," published in the *Journal of Business Ethics* 32, no. 1 (July 2001): 19–34.

Joachim Görres, research professor of physics, coauthored "Low-energy Resonances in $^{14}N(\alpha,\gamma)^{18}F$ and their Astrophysical Implications" with C. Arlandini, **Ulrich Giesen**, research assistant professor of physics, M. Heil, F. Käppeler, H. Leiste, E. Stech, and **Michael C. Wiescher**, Freimann Professor of Physics, published in *Physical Review C* 62 (2000): 055801 (7 pp.); "7.07 MeV Resonant State in ^{19}Ne Reexamined through a New Measurement of the $^{18}F(p,\alpha)^{15}O$ Reaction and $^{18}F(p,p)$ Scattering" with J.-S. Graulich, S. Cherubini, R. Coszach, S. El Hajjami, W. Galster, P. Leleux, W. Bradfield-Smith, T. Davinson, A. Di Pietro, A.C. Shotter, Michael C. Wiescher, F. Binon, and J. Vanhorenbeeck, published in *Physical Review C* 63 (2000): 011302(R) (4 pp.); "The 7.07 MeV Resonance in ^{19}Ne Revisited" with J.-S. Graulich, S. Cherubini, R. Coszach, S. E. Hajjami, W. Galster, P. Leleux, W. Bradfield-Smith, T. Davinson, A. Di Pietro, A. Shotter, Michael C. Wiescher, F. Binon, and J. Vanhorenbeeck, published in *Nuclear Physics A* 688 (2000): 138c–141c; "Shell Model Based Thermonuclear (p,γ) Rates in the Lower pf-shell" with J.L. Fisker, K. Langanke, G. Martínez-Pinedo, and Michael C. Wiescher, published in *Nuclear Physics A* 688 (2001): 453c–455c; "Break-out From the Hot CNO Cycle Via $^{18}Ne(\alpha,p)21Na$" with W. Bradfield-Smith, T. Davinson, A.

DiPietro, A. Laird, A. Ostrowski, A. Shotter, P. Woods, S. Cherubini, W. Galster, J.S. Graulich, P. Leleux, L. Michel, A. Ninane, J. Vervier, Michael C. Wiescher, J. Rahighi, and J. Hinnefeld, published in *Nucleus in the Cosmos V,* N. Prantzos and S. Harissopulos, eds. (Paris: Editiones Frontieres): 419–422; and "Measurement of Low Energy Proton Radiative Capture Cross Sections" with A. Murphy, F. Cloupek, R. Boyd, A. Cole, R. Guray, G. Raimann, J. Schwarzenberg, and Michael C. Wiescher, ibid., 447–450.

Dirk M. Guldi, associate professional specialist in the Radiation Laboratory, coauthored "Efficient Charge Separation in Porphyrin-Fullerene-Ligand Complexes" with T. Da Ros, M. Prato, M. Ruzzi, and L. Pasimeni, published in *Chemistry—A European Journal* 7, no. 4 (2001): 816–827; "Fullerene Pyrazine Dyads: Intramolecular Energy Transfer Route to the Fullerene Moiety" with G. Torres-Garcia, and J. Mattay, published in the *Journal of Information Recording* 25, no. 3–4 (2001): 273–279; "A Photosensitizer Dinuclear Ruthenium Complex: Intramolecular Energy Transfer to a Covalently Linked Fullerene Acceptor" with M. Maggini, E. Menna, G. Scorrano, P. Ceroni, M. Marcaccio, F. Paolucci, and S. Roffia, published in *Chemistry—A European Journal* 7, no. 8 (2001): 1597–1605; "Modulating Charge Separation and Charge Recombination Dynamics in Porphyrin-Fullerene Linked Dyads and Triads: Marcus-Normal versus Inverted Region" with H. Imahori, K. Tamaki, C. Luo, M. Fujitsuka, O. Ito, Y. Sakata, and S. Fukuzumi, published in the *Journal of the American Chemical Society* 123, no. 11 (2001): 2607–2617; "Catalytic Effects of Dioxygen on Intramolecular Electron Transfer in Radical Ion Pairs of Zinc Porphyrin-Linked Fullerenes" with S. Fukuzumi, H. Imahori, H. Yamada, M.E. El-Khouly, M. Fujitsuka, and O. Ito, ibid., pp. 2571–2575; "A New Photoactive and Highly Soluble C60-TTF-C60 Dimer: Charge Separation and Recombination" with J.L. Segura, E.M. Priego, N. Martin, and C. Luo, published in *Organic Letters* 2, no. 25 (2001): 4021–4024; "Evidence of High Charge Mobility in Photoirradiated Polythiophene-Fullerene Composites" with L. Pasimeni, L. Franco, M. Ruzzi, A. Mucci, L. Schenetti, C. Luo, K. Kordatos, and M. Prato, published in the *Journal of Materials Chemistry* 11 (2001): 981–983; and "A Mixed Fullerene - Ferrocene Thermotropic Liquid Crystal: Synthesis, Liquid-Crystalling Properties, Supramolecular Organization and Photoinduced Electron Transfer" with M. Even, B. Heinrich, D. Guillon, M. Prato, and R. Deschenaux, published in *Chemistry—A European Journal* 7, no. 12 (2001): 2595–2604.

Roger D. Huang, chair and Meyer Professor of Finance, coauthored "Exchange Rates and Firm's Liquidity: Evidence From ADRs" with H.R. Stoll, published as the lead article in the *Journal of International Money and Finance* 20 (2001): 297–325.

Dennis C. Jacobs, associate professor of chemistry and biochemistry, coauthored "Reactive Collisions of Hyperthermal Ions with Oxide Surfaces" with M. Maazouz, C.L. Quinteros, T. Tzvetkov, P.L. Maazouz, X. Qin, and T.L.O. Barstis, published in the *Proceedings of the Sixteenth International Conference on the Application of Accelerators in Research and Industry: CAARI,* J.L. Duggan and I.L. Morgan, eds. (American Institute of Physics, 2001): 122–125.

Prashant V. Kamat, professional specialist in the Radiation Laboratory, coauthored "Understanding the Facile Photooxidation of Ru(bpy)32+ in Strongly Acidic Aqueous Solution Containing Dissolved Oxygen" with A. Das, V. Joshi, D. Kotkar, V.S. Pathak, V. Swayambunathan, and P.K. Ghosh, published in the *Journal of Physical Chemistry A* 105, no. 28 (2001): 6945–6954.

James J. Kolata, professor of physics, wrote "Transfer Breakup and Fusion Reactions of ^{6}He with ^{209}Bi Near the Coulomb Barrier," published in the *Proceedings of the International Workshop on Fusion Dynamics at the Extremes, Dubna, Russia, 25-27 May, 2000,* Yu. Ts. Oganessian and V.I. Zagrabaev, eds. (Singapore: World Scientific, 2001): 318–326.

Edward J. Maginn, associate professor of chemical engineering, coauthored "Monte Carlo Study of Confinement Effects on Zeolite Cracking Mechanisms" with M.D. Macedonia, published in the *American Institute of Chemical Engineers Symposium Series No. 325* 97 (2001): 300–304.

Scott P. Mainwaring, director of the Kellogg Institute, Kroc fellow, and Conley Professor of Government and International Studies, wrote "Two Models of Democracy," published in *The Journal of Democracy* 12, no. 3 (2001): 170–175.

Grant J. Mathews, professor of physics, coauthored "Gamma-Ray Bursts Via the Neutrino Emission from Heated Neutron Stars" with J.D. Salmonson and J.R. Wilson, published in *The Astrophysical Journal* 553, no. 2 (2001): 471–487; "Bardeen-Petterson Effect and Quasi-periodic Oscillations in X-Ray Binaries" with P.C. Fragile and J.R. Wilson, ibid., no. 2 (2001): 955–959; and "The r-Process in Neutrino-driven Winds from Nascent, 'Compact' Neutron Stars of Core-Collapse Supernovae" with S. Wanajo, T. Kajino, and K. Otsuki, ibid., 554, no. 1 (2001): 578–586.

Ralph M. McInerny, Grace Professor of Medieval Studies, director of the Maritain Center, and professor of philosophy, wrote "Presentation of the Aquinas Medal," published in the *Proceedings of the American Catholic Philosophical Quarterly* 74 (2000): 27–28.

Robert J. Minniti II, professional specialist in electrical engineering, coauthored "Inferring Propeller Inflow and Radiation from Near-Field Response, Part 1: Analytic Development" with W.K. Blake and **Thomas J. Mueller**, Roth-Gibson Professor of Aerospace Engineering, published in the *American Institute of Aeronautics and Astronautics Journal* 39, no. 6 (2001):1030–1036; and "Inferring Propeller Inflow and Radiation from Near-Field Response, Part 2: Empirical Application," also with Blake and Mueller, ibid., 1037–1046.

William A. O'Rourke, professor of English, published *Campaign America 2000: The View From the Couch* (Chicago: Previewport Editions, 2001) xi and127 pp. and "Us Together, Alone," in *From Daughters and Sons To Fathers: What I've Never Said,* C. Warloe, ed. (Ashland, Oreg.: Story Line Press, 2001): 269–273.

Samuel Paolucci, professor of aerospace and mechanical engineering, coauthored "A Petrov-Galerkin Method for Flows in Cavities" with S.A. Suslov, published in *Computational Fluid and Solid Mechanics,* K.J. Bathe, ed. (Oxford: Elsevier Science Ltd., 2001): 1501–1504.

Victoria A. Ploplis, research associate professor of chemistry and biochemistry, coauthored "Attenuation of Neointima Formation Following Arterial Injury in PA1-1 Deficient Mice" with **Francis J. Castellino**, dean of science, Kleiderer-Pezold Professor of Chemistry and Biochemistry, and director of the Center for Transgene Research, reprinted from *Fibrinogen* in the *Annals of the New York Academy of Sciences* 936 (2001): 466–468; and "Development of Pulmonary Fibrosis in Fibrinogen-Deficient Mice" with J.A. Wilberding, L. McLennan, Z. Liang, I. Cornelissen, M. Feldman, M.E. DeFord, **Elliot D. Rosen**, research associate professor of chemistry and biochemistry, and Francis J. Castellino, ibid., 542–548.

John E. Renaud, assistant professor of aerospace and mechanical engineering, presented three papers that appear in *the Proceedings of the 42nd AIAA/ASME/ASCE/AHS/ASC Structures, Structural Dynamics, and Materials Conference,* held in Seattle, Wash., April 16–19: "A Comparative Study of Trust Region Managed Approximate Optimization," coauthored with W. Lin, at p. 1499; "Adaptive Experimental Design for Construction of Response Surface Approximations," coauthored with V.M. Perez and L.W. Watson, at p. 1622; and "Development and Verification of a MATLAB Driver for SNOPT," coauthored with S.E. Gano and V.M. Perez, at p. 1620. He coauthored "Interactive Multiobjective Optimization Design Strategy for Decision Based Design" with R.V. Tappeta, published in the *ASME Journal of Mechanical Design* 123, no. 2 (2001): 205–215; and "Mechanical Behavior of Acrylonitrile-Butadiene-Styrene (ABS) Fused Deposition Materials, Experimental Investigation" with J.F. Rodriguez and J.P. Thomas, published in *Rapid Prototyping Journal* 7, no. 3 (2001): 148–158.

David N. Ricchiute, Deloitte & Touche Professor of Accountancy, wrote *Auditing and Assurance Services* 6th ed. (Cincinnati: South-Western Publishing, 2001): 790 pp.

Karen Richman, assistant professor of anthropology, coauthored "A Democracy of Words: Political Performance in Haiti's Tenth Province" with W. Balan-Gaubert, published in the *Journal of Haitian Studies* 7, no. 1 (2001); and wrote a review of *High Tech and High Heels in the Global Economy: Women, Work, and Pink-Collar Identities in the Caribbean,* by C. Freeman. (Durham: Duke Univ. Press, 2000), published in *American Ethnologist* 28, no. 4 (2001).

W. Robert Scheidt, Warren Professor of Chemistry and Biochemistry, coauthored "Unexpected Nitrosyl-group Bending in Six-coordinate {M(NO)}6 σ-Bonded Aryl(iron) and -(ruthenium) Porphyrins" with G.B. Richter-Addo, R.A. Wheeler, C.A. Hixson, L. Chen, M.A. Khan, M.K. Ellison, and C.E. Schulz, published in the *Journal of the American Chemical Society* 123 (2001): 6314–6326; and "In Situ Fe K-edge X-ray Absorption Spectroscopy of a Nitrosyl Iron(II) Porphyrin Adduct Adsorbed on a High-Area Carbon Electrode in Aqueous Electrolytes" with I.T. Bae, Y. Tolmachev, Y. Mo, D. Scherson, M.K. Ellison, M.-C. Cheng, R.S. Armstrong, and P.A. Lay, published in *Inorganic Chemistry* 40 (2001): 3256–3258.

Mei-Chi Shaw, professor of mathematics, coauthored the paper "The $\overline{\partial}$ - Neumann Operator on Lipschitz Pseudoconvex Domains with Plurisubharmonic Defining Functions" published in the *Duke Mathematics Journal* 108 (2001): 421–448.

Bradley D. Smith, professor of chemistry and biochemistry, coauthored "NMR Studies of Hydrogen Bonding Interactions with Secondary Amide and Urea Groups" with M.J. Deetz and J.E. Fahey, published in the *Journal of Physical Organic Chemistry* 14 (2001): 463–467; and "Facilitated Phosphatidylcholine Flip-Flop Across Erythrocyte Membranes Using Low Molecular Weight Synthetic Translocases" with J. Middleton Boon, published in the *Journal of the American Chemical Society* 123 (2001): 6221–6226.

Cameron K. Tuai, assistant librarian, authored "Fiedler's Contingency Model of Leadership for Library Leaders in a Mobile Job Market," published in *Business and Finance Division Bulletin,* no. 117 (2001): 43–48.

Patricia S. Vaughan, research assistant professor of biological sciences, coauthored "Cytoplasmic Dynein Intermediate Chain Phosphorylation Regulates Binding to Dynactin" with J.D. Leszyk and **Kevin T. Vaughan**, assistant professor of biological sciences, published in the *Journal of Biological Chemistry* 276 (July 13): 26171–26179.

Robert P. Vecchio, Schurz Professor of Management, wrote "Entrepreneurship and Leadership: Common Threads and Common Trends," published in *Human Resources Management Review,* 2001.

Michael C. Wiescher, Freimann Professor of Physics, coauthored "Ignition and Cooling of X-Ray Bursts" with H. Schatz, published in *Progress of Theoretical Physics,* Supplement No. 140 (2000): 11–32.

James L. Wittenbach, professor of accountancy, and **Kenneth W. Milani**, professor of accountancy, wrote "Charting the Interacting Provisions of the Charitable Contribution Deduction for Individuals," published in *Taxation of Exempts* 13, no. 1 (July/August 2001): 9–22.

Samir Younés, associate professor of architecture and director of Rome Studies, coauthored "Reuniting Urban Form and Process" with B. Hanson, published in the *Journal of Urban Design* 6, no. 2 (June 2001): 185–209.

Administrators' Notes

Administrators' Appointments

Charles W. Roboski has been appointed director of admissions for the Law School.

Catherine Roemer has been appointed director of Law School administration.

Administrators' Honors

Bernadette Cafarelli, associate director of sports information, received three Best in the Nation awards from the College Sports Information Directors of America. The top awards were for her work on the men's lacrosse and soccer brochures. She also won second-place honors for the men's basketball brochure and a fifth-place award for men's basketball programs.

John Heisler, assistant athletic director and director of sports information, received Best in the Nation awards from the College Sports Information Directors of America for the postseason football brochure and for special programs publications.

Pete LaFleur, sports information assistant, received Best in the Nation awards from the College Sports Information Directors of America for the men's fencing and ice hockey brochures, as well as a fourth-place award for the baseball brochure.

Lisa Nelson, sports information publications coordinator, designed and assisted on the entries receiving awards from the College Sports Information Directors of America.

David R. Prentkowski, director of Food Services, received the Richard Lichtenfelt Award for outstanding service to the National Association of College and University Food Services.

Eric Wachter, sports information assistant, won a Best in the Nation award from the College Sports Information Directors of America for the women's soccer brochure.

Administrators' Activities

Patrick F. Leary, D.O., was certified in geriatric medicine by the American Osteopathic Association, May 4.

Dan Manier, director of Law School Technology, spoke on a panel discussion titled "Wireless Network: Is It Time to Untether Users?" at the 94th annual meeting and conference of the American Association of Law Libraries, June 14–19, in Minneapolis.

Administrators' Publications

Alan S. Bigger, director of Building Services, coauthored "Star Trek™: A Guide to Launching Your Career into Outer Space" with L.B. Bigger, published in *Executive Housekeeping Today* 22, no. 7 (July): 5–6; "More Power Leads to Greater Productivity" with L.B. Bigger, published in *Sanitary Maintenance* 59, no. 7 (July): 36, 38, 40; and "So You Think You are Leadership Material?" with L.B. Bigger, published in *Executive Housekeeping Today* 22, no. 8 (August): 5–6, 10.

Documentation

Errors and Omissions

In issue no. 19, under *Publications,* credit was given to **Thomas S. Vihtelic** for articles written by **Raimo Väyrynen**. The items for their publications should have read as follows:

Raimo Väyrynen, professor of government and international studies, wrote "Environment, Violence, and Political Change," published in the *Notre Dame Journal of Law, Ethics and Public Policy* 15, no. 2 (2001): 593–620; and "Sovereignty, Globalization and Transnational Social Movements," published in *International Relations of the Asia-Pacific* (Oxford) 1, no. 2 (2001): 227–46.

Thomas S. Vihtelic, research assistant professor of biological sciences, co-authored "Isolation of a Zebrafish Rod Opsin Promoter to Generate a Transgenic Zebrafish Line Expressing Enhanced Green Fluorescent Protein in Rod Photoreceptors" with B. Kennedy, L. Checkley, **Kevin T. Vaughan**, assistant professor of biological sciences, and **David R. Hyde**, professor of biological sciences, published in the *Journal of Biological Chemistry* 276 (2001): 14037-14043.

In issue no. 20, the acceptance speech of the Fellow of Class of 2001 was incorrectly attributed to **Fr. Paul Doyle, C.S.C. Fr. Thomas Doyle, C.S.C.**, was chosen as Fellow of Class of 2001.

FACULTY BOARD ON ATHLETICS

March 29, 2001

Members present: Prof. Fernand Dutile (chair); Prof. Matthew Barrett; Prof. John Borkowski; Prof. Joseph Guiltinan; Dr. Kate Halischak; Prof. Blake Leyerle; Mr. Lou Nanni; Ms. Laura Patterson; and (Rev.) Mark Poorman, C.S.C.

Members absent: Prof. William Berry; Prof. JoAnn DellaNeva; Prof. James McAdams; Prof. Clark Power; Prof. Kerry Thomas; and Dr. Kevin White.

Observers present: Ms. Mary Hendriksen (recorder).

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

1. **Minutes**: Prof. Barrett moved that the minutes of the meeting of March 1 be approved. Prof. Leyerle seconded the motion. The Board approved the minutes unanimously.

2. **Announcements**: The chair announced that he had discussed with University Registrar Harold Pace the possibility of providing preferential registration for student-athletes approved for a fifth year of eligibility. This discussion flowed from the problems associated with the registration process during the last academic year, when some student-athletes, as unclassified graduate students, were unable to secure courses consistent with the academic plan approved for them. Dr. Pace indicated that such registration could be worked out without difficulty.

The chair reminded the Board of its scheduled breakfast meeting with Bobby Clark, new head coach for men's soccer, on April 3, at the Morris Inn.

The chair announced that letters and nomination forms relating to the Byron V. Kanaley Award had been sent to all head coaches. The chair anticipated a special meeting of the Board in the middle of April in order to select the winners of the award. The chair noted that the subcommittee on student welfare would screen the nominations prior to the meeting of the full Board.

The chair, noting that the office of Academic Services for student-athletes had moved into its new home, the Coleman-Morse Center, announced that he had discussed with Dr. Halischak the possibility of holding the next Board meeting in those premises so that Board members could tour the facility.

The chair noted for the record that the Board had approved, through e-mail vote, a fifth-year of eligibility for Mark Mitchell

(football) and Monica Gonzalez (women's soccer).

The chair announced that, on the Board's behalf, he had approved the 2001 cross-country schedule (men's and women's), which met all Board guidelines.

Also on behalf of the Board, the chair added March 30 as an approved class-miss day for the men's tennis team. The team's schedule remains within the guidelines even after the addition of the extra day.

The chair announced that he had drafted letters to those charged with conducting elections for, or making appointments to, the Board. The terms of the following people will end this summer: Prof. Barrett, a member elected from the Law School (and eligible for re-election); Prof. John Borkowski, elected at-large (and eligible for re-election); Prof. JoAnn DellaNeva, elected at-large (and eligible for re-election); Prof. McAdams, appointed by the President (and ineligible for reappointment); and Ms. Laura Patterson, appointed by the President to a one-year term (and eligible for reappointment).

3. **Women's soccer schedule**: The chair stated that he brought this matter to the Board because the schedule did not fall "clearly" within the Board's guidelines. He saw two problems with the schedule: First, the schedule calls for competition on August 25, the weekend of orientation. Board guidelines discourage activities that might interfere with planned University events for first-year students. At this point, however, the Board was informed that the team's head coach had agreed to move the contest to the morning, a period that does not interfere with the attendance of first-year students at orientation activities. (In this connection, the chair announced to the Board that the head coach for men's soccer had agreed to excuse first-year student-athletes from that team's scheduled competitions on the weekend of orientation.)

A second problem attending the schedule for women's soccer arises from the team's competition at Stanford on September 16. The return flight calls for arrival in South Bend at 7:45 a.m. This, the chair noted, puts into jeopardy classes for the morning of September 17. The chair added, in defense of the proposal, that the team's schedule calls for no class misses with regard to Tuesday-Thursday courses. Prof. Guiltinan moved, and Prof. Borkowski seconded, a motion to approve the schedule. Fr. Poorman proposed a "friendly amendment" that approval be contingent on chartering a bus from O'Hare in order to guarantee timely arrival in South Bend, a possibility the head coach himself had offered. During this discussion, the chair was asked to raise with the director of athletics the possibility of chartering a flight for the entire return trip, which might ensure an 11 p.m. arrival in South Bend. Dr. Halischak cautioned, however, that "charters" are not as predictable as they sound; schedules get amended in order to accommodate other requests. Nonetheless, the chair committed to raise with the director of athletics the possibility of a charter. The Board approved the motion.

4. **Applications for a fifth year of eligibility**: Introducing this topic, the chair advised that the Board take the applications sequentially, with a reserved option to revisit any or all of the applications following that sequential assessment.

At this point, Prof. Borkowski suggested that many of the applications suffered from the same deficiency: Only one course was proposed. He would recommend that these applications be returned for radical revision; these applications should state what the student can gain from a fifth year. Dr. Halischak voiced her strong objection to this approach; in her view the Board had approved identical applications in the past. She expressed her concern that the Board sends inconsistent statements to prospective fifth-year athletes concerning requirements. Since these applicants will maintain their undergraduate status and need only one course for graduation, the applications accord with our requirements and those of the NCAA. Prof. Barrett noted that he was deeply troubled by the fact that some student-athletes had apparently dropped a course at midsemester during their senior year precisely in order to return as undergraduate football players during a ninth semester. Prof. Borkowski stressed that "fifth-years" should secure the maximum value from their Notre Dame experience. Such student-athletes could focus on leadership or add a new academic minor. Prof. Borkowski referred approvingly to one student-athlete for having demonstrated thought about why he wanted to stay at Notre Dame. Prof. Barrett, stressing that Board guidelines encourage student-athletes to graduate in four years, stated that he would eye more favorably any students needing one course to graduate and wanting to enrich their education through three additional courses. Dr. Halischak protested that the Board wanted only full-time students as "fifth-years." Prof. Borkowski saw no problem, however, in a reduced load so long as the application reflects an emphasis on academics and a rationale for staying.

Prof. Leyerle worried that football players were tremendously different from other student-athletes. She found it profoundly troubling that athletes here might participate in intercollegiate athletics without being in essence full-time students. Dr. Halischak reiterated her view that the Board has one understanding of the fifth-year of eligibility and the players another. We are, she maintained, "red shirting." Moreover, the coaches tell the players, although in code, that they are being "red shirted." Their fifth year is athletically driven. Prof. Borkowski stressed that, because Notre Dame is an academic institution, there must be a coherent fifth-year program and we must start communicating this policy now. Moreover, the student-athlete's program need not be totally academic—for example, some social-service commitment might substitute for some of the academic aspects. Prof. Guiltinan stated that these student-athletes wanted to graduate, but worry that the "2.0 eligibility rule" might trip them up. Finding a cohesive set of four courses is extremely difficult; some courses have as prerequisites more than an undergraduate degree. Some of these students have met with as many as four advisors due to our "Balkanization" of advising. Fr. Poorman emphasized that one course cannot suffice; a sufficient amount of engagement is necessary. Three courses coupled with service could satisfy the requirement. He conceded that Board policy was evolving, that the discussion had been reframed in a movement toward greater engagement and more coherence. Prof. Leyerle manifested her agreement with a three-course bright-line minimum.

Mr. Nanni, agreeing that one course alone should not suffice, urged that the Board

develop a clear sense of what it wants. How many courses are needed? Will service supplant academic requirements, at least in part? We should not penalize athletes through mixed messages. After the Board works out its policy, then it should sit down with the coaches to make clear to them the break from previous policy. This is crucial, especially since today football, especially for linemen, is a five-year sport across the country. Fr. Poorman stated that the student-athlete's proposal would better show engagement than coherence; it would satisfy him that the plan called for courses that the student-athlete was interested in taking for enrichment purposes, even though these courses did not build on the student-athlete's major course of study. To Prof. Leyerle's observation that the Board seemed to reflect two different camps—enrichment versus coherence, Prof. Borkowski responded that the Board had never turned down a plan characterized by enrichment.

Prof. Barrett stressed that the Board does have a written policy in its guidelines. Indeed, rarely have petitions for a fifth-year been denied. A one-course plan, he continued, presents a loophole and seems more appropriate to the "athlete" than to the "student." Prof. Borkowski moved that our interim policy, pending a more detailed approach, require a minimum of three courses and an answer to the question: "If you stay here a fifth year, how can you use that time well?" That plan might be thematically related to the student-athlete's major, provide enrichment, or call for service, so long as the student-athlete profits from the experience. Prof. Barrett noted his view that community service unaccompanied by course credit would not be sufficient, a concern Ms. Patterson shared, given the difficulty of tracking such service.

At this point Prof. Borkowski made a motion, seconded by Prof. Leyerle, that the applications of Andrzej Bednarski (fencing), Carianne McCullough (fencing), Ashok Raju (men's tennis) and Casey Robin (football) be approved, along with that of another student-athlete, upon his submission of a list of courses that, in the chair's judgment, meets the Board's requirements. Prof. Barrett noted that the guidelines require the coach to state how the student-athlete will enhance the competitive level of the team; in one of the cases before the Board, the head coach had not done so. Prof. Guiltinan suggested that the application form be amended to exclude that inquiry. Following discussion, the motion carried.

Prof. Guiltinan's motion to approve the remaining four applications for a fifth-year of eligibility failed for lack of a second. Prof. Borkowski then moved that approval of the remaining four be deferred so that those applicants might reconsider their plan, rewrite their personal statement, and select a minimum of three courses for the fall semester that might serve as enrichment, that might constitute a second major, or that might move the student in a new academic direction. Prof. Leyerle seconded the motion, which the Board unanimously approved.

5. **Adjournment**: The meeting adjourned at 5:55 p.m.

FACULTY BOARD ON ATHLETICS

April 26, 2001

Members present: Prof. Fernand Dutile (chair), Prof. Matthew Barrett, Prof. William Berry, Prof. JoAnn DellaNeva, Dr. Kate Halischak, Prof. Blake Leyerle, Mr. Lou Nanni, Ms. Laura Patterson, (Rev.) Mark Poorman, C.S.C., Prof. Clark Power, Prof. Kerry Thomas, and Dr. Kevin White.

Members absent: Prof. John Borkowski, Prof. Joseph Guiltinan, and Prof. James McAdams.

Observers present: Ms. Missy Conboy and Mr. Bernard Muir (associate athletics directors); and Ms. Mary Hendriksen (recorder).

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

1. **Minutes**: Prof. Barrett moved the approval of the minutes of the meeting of March 29; Prof. Berry seconded the motion. After acceptance by the group, by consensus, of a few minor changes, the minutes were approved.

2. **Announcements**: The chair expressed his thanks to Dr. Halischak and her staff for the marvelous Academic Excellence Awards Dinner. The chair stressed how brightly the academic side of our student-athletes shone that evening. The remarks of James Langford, former director of Notre Dame Press, were, the chair added, truly inspirational.

Earlier this year, the chair recalled, the Board asked the chair and Dr. White to meet with the commissioner of the Central Collegiate Hockey Association, Tom Anastos, to discuss the importance the Board places on its class-attendance policy for student-athletes. The chair reported that he and Dr. White had met recently with the commissioner, who foresaw no problem in honoring Notre Dame's standards in this respect. Dr. White added that Mr. Anastos proved "very receptive" to Notre Dame's concerns.

The chair noted, for the record, that the Board had met on April 17, at the Morris Inn, to finalize the Byron V. Kanaley awards. At that meeting, following an extensive discussion, the recommendations of the subcommittee on student welfare were adopted. The chair stressed that these names should be kept confidential because 1) such selections are subject to clearance both by the appropriate administrator of the department of athletics and by Residence Life; and 2) John Heisler, Notre Dame's sports information director, hoped to present the awards as a surprise at the all-sports banquet on April 30.

The chair announced that he had approved a switch in the softball schedule; April 19 thus became a class-miss day instead of April 17. Since both days implicated only Tuesday-Thursday courses, the new schedule presented no class-miss issues.

The chair announced that he had approved the hockey schedule for 2001–02; the schedule clearly fell within Board guidelines.

The chair announced that he had denied appeals by two student-athletes for off-campus housing. These appeals presented no "extraordinary circumstances," the criterion established by the Board for its consideration of such appeals.

The chair asked that his e-mail message regarding the Kickoff Classic, sent to Board members on April 13, be added to the minutes (see Appendix). In this connection the chair reiterated, on behalf of the Board, his thanks to Dr. White, who, due to previous discussions beyond his control, had been put in a difficult situation regarding the proposed game.

The chair announced two adjustments to the women's soccer schedule. The team's August 25, 2001, scrimmage has been moved to the previous day, August 24, 2001, in order to avoid conflicts with orientation. Also, new flight arrangements have been made with regard to the Stanford game on September 16. Accordingly, the team will return to South Bend shortly after midnight, several hours earlier than originally scheduled. The chair expressed his thanks to Randy Waldrum, the team's head coach, for making these adjustments.

3. **Captaincies**: The chair rehearsed the Board's guidelines for the approval of captains. Nominees must have the approval of the appropriate administrator in the department of athletics; reflect high standards of conduct; secure the clearance of Residence Life; demonstrate strong leadership; remain in academic good standing; and, as a general rule, boast a cumulative grade point-average of 2.3. The following nominees for captain were approved: Maureen Hillenmeyer and Tara A. Riggs (women's swimming); McCasey Smith and Aaron Talarico (men's tennis); Becky Varnum (women's tennis); Evan Nielsen and Conor Dunlop (hockey); and Ryan Shay and Luke Watson (men's cross country) (the Board conditioned Ryan Shay's captaincy on the approval of his petition for a fifth year of eligibility, a matter that had not yet come before the Board).

Since the football team elects its captains, the Board then approved, provisionally, a long list of possible captains, a list from which the team would make its elections. Following those elections, and before any announcement to either the team or the public, the names of the student-athletes receiving the most votes would be conveyed to the chair, who, in turn, would clear those names with Residence Life.

4. **Petitions for a fifth year of eligibility**: The approval of a student-athlete's petition for a fifth year of eligibility was deferred so that the petitioner might, in keeping with guidelines previously established by the Board, propose a program calling for at least three courses. Prof. DellaNeva found the proposal, listing but a single, one-credit course for the fall semester, "disgraceful." Prof. Barrett saw a sliding scale involved: A one-hour schedule reflects the athlete much more than it reflects the student. "Engagement," as Fr. Poorman stated, remains a requirement in fifth-year proposals. The Board found unpersuasive the argument that financial considerations—the petitioner will receive no grant-in-aid—justified a course minimum different from those required of grant-in-aid students. Prof. Leyerle emphasized the importance of consistency; how can we approve a one-credit application when we have deferred approval of other applications calling for three credit hours? Mr. Nanni agreed: Inconsistency can do a great deal of damage. In response to a question, Prof. Barrett indicated that a program calling for more than one "independent study" will also raise questions, absent extraordinary circumstances.

The approval of another petition for a fifth year of eligibility was deferred pending clarification with regard to whether the required course called for by the proposed program precludes practicing with the team and pending further clarification regarding the courses for the proposed spring semester.

The petitions of Ryan Shay (men's track) and Griffin Howard (men's soccer) for a fifth year of eligibility were unanimously approved. [Both Ryan Shay and Griffin Howard had, in earlier Board actions, been approved as team captains subject to such favorable resolution of their petitions for a fifth year of eligibility].

5. **Off-campus residence**: Prof. DellaNeva, chair of the subcommittee on student welfare, led a discussion regarding off-campus residence of student-athletes. She stressed that she sought advice with regards to particular questions. Dr. White expressed his personal opinion—one he suggested might not mirror that of his senior staff—that all student-athletes, whether on a grant-in-aid or not, should live on campus for the first three years. He would, however, allow student-athletes to live off campus during their senior year and would set the grade-point-average threshold lower than the current 2.7. Fr. Poorman stated that he wished to discuss this issue with his senior staff; there had not been in his office a significant conversation with regard to seniors. Unlike Dr. White, Fr. Poorman would probably prefer a higher grade-point-average, maybe a 3.0, as a condition for off-campus residence. He recognized, however, possible fairness issues in the implementation of such a policy. Since only 354 of our 800-plus student-athletes receive grants-in-aid, Mr. Nanni noted, more than one-half of our student-athlete population currently does not need to live on campus. Ms. Conboy noted that current plans called for the addition of 60 athletics scholarships. Ultimately, Dr. White added, about two-thirds of our student-athletes will have scholarships. Ms. Conboy pointed out that the student-athlete advisory council supports the current standard. Some student-athletes have performed well academically while living off-campus. Are we looking at their interests? Dr. Halischak added that off-campus residents do quite well; the Office of Iinstitutional Research could give more complete statistics. Prof. Thomas cautioned against over-reliance on such numbers; we should pay close attention to the advice of those most directly involved, like Dr. White, who would prefer that all student-athletes—whether or not on a grant-in-aid—live on campus for the first three years.

Mr. Nanni reminded the group that NCAA compliance remains a big issue; whether on scholarship or not, a student-athlete who violates the rules places the University in jeopardy. Dr. White argued that at some point we need to let students live on their own; indeed, under-represented groups see the issue as a students' rights one. Challenging one argument for off-campus residence, Fr. Poorman asserted that living on campus need not be any more expensive than living off. Moreover, he stressed that student-athletes are over-represented with regard to serious violations of disciplinary rules, although student-athletes reflect the same level of participation in the usual disciplinary matters. Mr. Nanni stated that the 2.7 grade-point-average requirement seems a decent compromise. Prof. Barrett applauded the residential philosophy prevailing at Notre Dame. Fr. Poorman emphasized his belief that Notre Dame provides value in

its residence halls: The residential life here is part of the Notre Dame experience—students on campus get more out of Notre Dame. Some coaches, he continued, do not seem to understand this. Our residentiality should be a strong recruiting tool. Mr. Muir stated that coaches love Notre Dame's residentiality, but noted that student-athletes assessing potential universities look for freedom. Dr. White concurred: Coaches believe in residentiality. Nonetheless,
student-athletes want to be treated like other students during their senior year; they feel slighted at their different treatment. Prof. Power noted that even at one military academy, at least, there is a higher incidence of cheating among student-athletes. There, of course, all students reside on campus. To the suggestion that other universities be looked to for guidance, Mr. Nanni suggested that such an inquiry encompass other issues as well, such as the fifth year of eligibility.

6. Adjournment: The meeting adjourned at 6:10 p.m.

APPENDIX

E-mail—April 13, 2001

Dear Board Members:

On Thursday, the *South Bend Tribune* and the *Observer* carried articles stating that Notre Dame would play in the Kickoff Classic on August 25, 2002, at the Meadowlands. That weekend is Orientation weekend and, although playing on that day—a Sunday—would be much less disruptive to orientation than a Saturday game, the plan still had significant orientation implications, especially for the freshmen on the team.

I write to inform you that, under a revised plan, that game will not be played that weekend. We will most likely play on Saturday, [August 31, 2002,] instead—either in a rescheduled Kickoff Classic or at home.

I want, on behalf of the Board, to thank Kevin White for his sensitivity and responsiveness to the problem presented by a game on orientation weekend. His quick and adroit adjustment of a complex situation reflects well on Notre Dame and its educational values.

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

Tex

Summary of the Meetings of the Advisory Committee on Academic and Student Life

Spring Semester 2001

Co-Chair
Dr. Nathan O. Hatch, Provost
Rev. Mark L. Poorman, C.S.C., Vice President for Student Affairs

Members:
Dr. Ani Aprahamian
Dr. George Howard
Rev. Gary Chamberland, C.S.C.
Sr. Pat Thomas, O.P.
Dr. Frank Incropera
Dr. Patrick Utz
Reinhold Zeidler
Luciani Reali
Philip Slonkosky

Secretaries to the Committee:
Mary Pugel
Ann Firth

Meeting of March 5, 2001

1) Rev. Edward A. Malloy, C.S.C. welcomed members of the Advisory Committee on Academic and Student Life and thanked them for their willingness to serve. Fr. Malloy challenged the committee to address those issues which may be barriers between academic and student life, for the purpose of creating the very best learning environment at Notre Dame.

2) Committee members introduced themselves and shared their hopes for the work of the committee.

3) Dr. Hatch and Fr. Poorman articulated their desire to see the committee generate creative ideas on how to better integrate academic and student life. The recommendations contained in the final report of the Ad Hoc Committee on Academics and Student Life were discussed.

Meeting of April 10, 2001

1) Committee members discussed the role of the committee. The committee will serve as an advisory committee to Dr. Hatch and Fr. Poorman, advising them on matters which lie at the intersection of academic and student life. The committee is to be a forum for discussion and an "initiative engine"; it will fall to Dr. Hatch and Fr. Poorman in their capacities as cochairs to carry forward the committee's recommendations through the appropriate university channels. The committee will meet quarterly, and an annual summary of the committee's meetings will be published in *The Notre Dame Report.*

2) Dr. Hatch and Fr. Poorman introduced six topics of potential interest to the committee and asked members to consider which of these topics might be worthy of further study by the committee:
a) student mentoring, advising and guidance;
b) the first year experience;
c) the appropriate role of technology;
d) experiential learning opportunities;
e) the intellectual engagement of students outside of the classroom; and
f) the allocation of space in new and renovated buildings and the impact on faculty-student interaction.

3) At the request of the committee's cochairs, Mary Pugel and Ann Firth presented the results of an informal survey of several peer institutions (Duke, Vanderbilt, Dartmouth, Northwestern, and Washington University) on the programs and structures in place at those institutions to facilitate the integration of academics and student life.

Meeting of May 11, 2001

1) Of the six topics presented to committee members for their consideration in April, three seemed to be of greatest interest: the allocation of space in new and renovated buildings and the impact on faculty-student interaction; the intellectual engagement of students outside of the classroom; and the first year experience. Over the course of the summer, Dr. Hatch and Fr. Poorman agreed to choose one or two of these topics for the committee to take up in the fall semester.

Committee members will be assigned to subcommittees to facilitate more in-depth study and discussion.

2) At the invitation of the committee, Dan Saracino, assistant provost for enrollment, presented information on the admissions process and provided a profile of the incoming class.

2001-2002 Publication Schedule for *Notre Dame Report* Vol. 31

No. 1
Deadline: Wednesday, August 8
Publication Date: Friday, August 24

No. 2
Deadline: Wednesday, August 22
Publication Date: Friday, September 7

No. 3
Deadline: Wednesday, September 5
Publication Date: Friday, September 21

No. 4
Publication Date: Friday, October 12

No. 5
Deadline: Wednesday, October 10
*Publication Date:*Friday, October 26

No. 6
Deadline: Wednesday, October 24
Publication Date: Friday, November 9

No. 7
Deadline: Wednesday, November 7
Publication Date: Friday, November 23

No. 8
Deadline: Wednesday, November 21
Publication Date: Friday, December 7

No. 9
Deadline: Wednesday, January 2, 2002
Publication Date: Friday, January 18

No. 10
Deadline: Wednesday, January 16
Publication Date: Friday, February 1

No. 11
Deadline: Wednesday, January 30
Publication Date: Friday, February 15

No. 12
Deadline: Wednesday, February 13
Publication Date: Friday, March 1

No. 13
Deadline: Wednesday, February 27
Publication Date: Friday, March 15

No. 14
Deadline: Wednesday, March 13
Publication Date: Friday, March 29

No. 15
Deadline: Wednesday, March 27
Publication Date: Friday, April 12

No. 16
Deadline: Wednesday, April 10
Publication Date: Friday, April 26

No. 17
Deadline: Wednesday, April 24
Publication Date: Friday, May 10

No. 18
Deadline: Wednesday, May 15
Publication Date: Friday, June 7

No. 19
Deadline: Wednesday, June 12
Publication Date: Friday, June 28

No. 20
Deadline: Wednesday, July 3
Publication Date: Friday, July 19

Index
Publication Date: Friday, August 30

Notre Dame Report Submission Information

Faculty (all classes: teaching research faculty, special professional faculty, and librarians and special research faculty) and administrators may submit information to be printed in *Notre Dame Report* to 502 Grace Hall or via e-mail to ndreport.1@nd.edu.

Faculty and Administrators' Notes: Appointments include only those University appointments such as deans, department heads, heads of committees, and administrative professionals. This does not include appointments to faculty positions.

Honors is comprised of non-University appointments in one's field and outright honors. It does not include fellowships, grants, etc. Any grants not published in the Awards Received section of the Report will be noted in Activities. Information required for each honor submitted includes: name, rank or title, department, honor, name of organization bestowing honor, city, state, and date (if applicable).

Activities must be of a professional and public nature (such as invited lectures and papers read) and should be related to one's work at the University. Lectures given on campus are only acceptable if they are of a special nature and/or if they are presented to a broader audience than the Notre Dame community. Merely attending a meeting is unacceptable. Information required for each activity submitted includes: name, rank or title, department, title of presentation, title of conference or institution, city, state, and date. No activities are printed ahead of the date, only after the fact. Activities will not be printed over six months out of date.

Publications of books, articles in journals, proceedings or books, as well as reviews are published in *Notre Dame Report*. Information required for a publication in a book or journal includes: name, rank or title, department (for all Notre Dame authors), title of article, name of journal (volume number, issue number, date) or name of book (author, place of publication, publisher, date), and page numbers. Information required for a published or edited book includes: name, rank or title, department (for all Notre Dame authors), book title, place of publication, publisher, date, and total number of pages.

Documentation:

Meeting minutes from the Graduate Council, Academic Council, Faculty Senate, University Committee on Libraries, Committee on Research and Sponsored Programs, Faculty Board on Athletics, and University Committee on Women Faculty and Students are printed in *Notre Dame Report*. These minutes should be sent in electronic form to 502 Grace Hall or via e-mail to ndreport.1@nd.edu.

Research

Departmental Awards Received and Proposals Submitted

In the period June 1, 2001 to June 30, 2001.

	AWARDS RECEIVED		PROPOSALS SUBMITTED	
Category	**No.**	**Amount**	**No.**	**Amount**
Research	32	$4,009,119	31	$11,383,951
Facilities and Equipment	0	0	0	0
Instructional Programs	0	0	0	0
Other Programs	0	0	0	0
Service Programs	0	0	0	0
Total	32	$4,009,119	31	$11,383,951

Fiscal Year-to-date Cumulative

	AWARDS RECEIVED		PROPOSALS SUBMITTED	
Category	**No.**	**Amount**	**No.**	**Amount**
Research	410	$63,072,352	552	$219,470,196
Facilities and Equipment	0	0	0	0
Instructional Programs	10	994,582	4	193,683
Other Programs	1	25,000	0	0
Service Programs	0	0	0	0
Total	421	$64,091,934	556	$219,663,879

Awards Received

June 1, 2001 through June 30, 2001

Anthropology

Mark R. Schurr
Investigations of Historic Potawatomi Villages in Northern Indiana
Indiana Department of Natural Resources
$25,420 10 months

Biological Sciences

Jeffrey Lee Feder
The Genetics of Speciation in Rhagoletis
National Science Foundation
$313,788 36 months

David William Severson
RFLP Mapping of Plasmodium Refractory Genes in Mosquitoes
National Institutes of Health
$298,000 12 months

Martin Tenniswood
Tendency of SERMs (Tamoxifen and Raloxifene) to Induce a Metastatic Phenotype in Breast Cancer in a Chemopreventive Settling
Department of Army
$74,500 13 months

Michelle A. Whaley
REU Site Program for Undergraduate Research
National Science Foundation
$50,533 35months

Chemical Engineering

Arvind Varma
High-Temperature Composites and High-Performance Brake Materials
Honeywell Aircraft Landing Systems
$1,280,000 60 months

Chemistry and Biochemistry

Dennis C. Jacobs
Dynamics of Plasma/Surface Interactions
Department of the Air Force
$60,000 6 months

Anthony S. Serianni
NMR Studies of Biologically-Important Oligosaccharides
National Institutes of Health
$229,460 12 months

Civil Engineering and Geological Sciences

Peter C. Burns
Investigations of Incorporation of Toxic Metals and Radionuclides into Structures of Secondary Minerals
North Atlantic Treaty Organization
$17,400 24 months

William G. Gray
Thermodynamically Constrained Models for Multiphase Systems
National Science Foundation
$51,219 36 months

Lloyd H. Ketchum
An Educational Center for Students and Treatment Plant Personnel
City of Elkhart
$80,881 24 months

Joannes J. Westerink
ADCIRC Hydrodynamic Circulation and Transport Code Development
Department of Army
$50,000 47 months

The Classics

Daniel J. Sheerin
Sketches of the Good Things to Come
University of Pennsylvania
$15,000 4 months

Electrical Engineering

Patrick J. Fay
Intellectual Property Research Agreement
TriQuint Semiconductor, Inc.
$213,449 24 months

Patrick J. Fay, Gregory L. Snider, Alexei Orlov
A Novel High-Speed Electrometer for Nanoscale Electronic Device
National Science Foundation
$270,000 36 months

Alan C. Seabaugh
Tunneling Based SRAM
Intel Corporation
$3,412 24 months

Gregory L. Snider
Studies of Self-Assembled Quantum Dot Arrays
University of Virginia
$60,315 20 months

English

John J. Staud, Timothy R. Scully
ACE Summer Training Program
Helen Brach Foundation
$25,000 3 months

History

David L. Waldstreicher
Runaway America: Benjamin Franklin, Slavery, and the American Revolution
The New York Public Library
$50,000 12 months

Law School

James A. Roemer
National Youth Sports Program
National Collegiate Athletic Association
$61,000 12 months

Mathematics

William G. Dwyer, Laurence R. Taylor, Edward B. Williams
Algebraic and Geometric Topology
National Science Foundation
$73,700 48 months

Stephan A. Stolz
Curvature and Topology
National Science Foundation
$66,056 12 months

Music

Mary E. Frandsen
Crossing Confessional Boundaries: The Patronage of Italian Sacred Music in Seventeenth-Century Dresden
American Council Learned Society
$30,000 12 months

Physics

Albert-László Barabási
Nonequilibrium Pattern Formation in Erosion Processes
National Science Foundation
$75,000 15 months

Grant James Mathews, Fridolin Weber, Stefan G. Frauendorf
Nuclear Properties at Extreme Density, Temperature and Spin
Department of Energy
$138,000 12 months

Carol E. Tanner
Precision Measurements of Transition Amplitudes in Atomic Cesium
National Science Foundation
$87,442 24 months

Romance Languages and Literatures

Christian R. Moevs
Landino's *Dante*: The Spiritual-Philosophical Interpretation of the Comedy in the Renaissance
Harvard University
$41,500 12 months

Sociology

David H. Sikkink
Religion, Race, and Schooling Choices for Children
National Academy of Education
$50,000 12 months

Richard A. Williams
Are the GSEs Leading, and If So Do They Have Any Followers?
US Housing and Urban Development
$39,999 12 months

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

Theology

Eugene C. Ulrich, James C. Vanderkam
The Publication of Four Volumes of Dead Sea Scrolls
National Endowment for the Humanities
$120,000 24 months

University Counseling Center

Luis G. Manzo
Sport Science Grant
USA Swimming
$8,375 12 months

Proposals Submitted

June 1, 2001 through June 30, 2001

Aerospace and Mechanical Engineering

Thomas C. Corke
Institute for Flow Control Applications in Propulsion (IFCAP)
National Aeronautics and Space Administration
$0 60 months

Ryan K. Roeder
Multidisciplinary Research Training in Multiscale Anisotropi Materials
Purdue University
$580,276 60 months

Biological Sciences

Scott D. Bridgham
Mechanistic Controls Over Peatland Response to Climate Change: Interactive Effects of Plants, Nutrients, Carbon and Energy Flux
National Science Foundation
$1,941,970 60 months

Frank H. Collins
Pyrethroid Resistance in the Mosquito Anopheles Gambiae
Cardiff University
$539,461 60 months

Kristin Hager
Molecular Analysis of Protein Trafficking Events in the Congenital Pathogen, Toxoplasma
March of Dimes Birth Defects
$150,000 24 months

David M. Lodge
Predicting Future Invaders from Theoretical Models
Purdue University
$6,000 24 months

Kenneth R. Olson
Physiology of Trout Natriuretic Peptides
I.U. School Medicine
$447,257 36 months

Martin Tenniswood
Molecular Mechanisms of Metastatic Progression in Breast Cancer
Department of Army
$150,021 36 months

Kevin T. Vaughan
A Transgenic Model for Neuronal Regulation of Cytoplasmic Dynein Function During Development
March of Dimes Birth Defects
$150,000 24 months

JoEllen J. Welsh
Characterization of Skin Tumors in VDR Null Mice
National Institutes of Health
$72,295 12 months

Chemical Engineering

Paul J. McGinn
Combinatorial Investigation of Diesel Soot Combustion
American Chemical Society
$120,000 44 months

Paul J. McGinn
Combinatorial Investigation of Catalytic Diesel Soot Combustion
Cummins, Inc.
$19,370 12 months

Chemistry and Biochemistry

Holly Goodson
Functional Characterization of CLIP-170
National Institutes of Health
$317,463 12 months

Thomas Nowak
Catalysis and the Metabolic Functions of Enolase
National Institutes of Health
$243,385 12 months

Elliot D. Rosen
Hemostatic Balance and Arterial Thrombosis
National Institutes of Health
$496,875 12 months

Civil Engineering and Geological Sciences

Ahsan Kareem
Thermal Programmed Desorption and Availability Characterization of Nitroaromatics in Biotreated Soils
Department of Army
$200,000 27 months

Lloyd H. Ketchum, Scott D. Bridgham
IGERT: Small Community Water and Wastewater Systems
National Science Foundation
$2,699,329 60 months

Billie F. Spencer
Supplement to Smart Damping Strategies for Protection of Urban Structures
National Science Foundation
$60,003 12 months

Joannes J. Westerink
Hydrodynamic Modeling of Flooding Events in Southern Louisiana
Louisiana State University
$718,120 48 months

Computer Science and Engineering

Jay B. Brockman, Mark J. McCready
Feedback Control of an Acid Neutralization Reactor: An Integrated Learning and Student Assessment Module
National Science Foundation
$74,989 48 months

Peter M. Kogge, Craig S. Lent, Marya Lieberman, Jay B. Brockman, Paul W. Huber
PMAC: Programmable Molecular Array Computing System
National Science Foundation
$1,161,160 36 months

Electrical Engineering

Wolfgang Porod
Molecular Analogic Cellular Computing
National Science Foundation
$477,179 36 months

Ken D. Sauer
Research on Iterative Reconstruction Methods for Spiral X-ray CT
General Electric Corporation
$14,766 6 months

History

David L. Waldstreicher
Runaway America: Benjamin Franklin, Slavery, and the American Revolution
The New York Public Library
$50,000 12 months

Physics

David P. Bennett, Sun Hong Rhie
Microlensing Planet Search Project
National Aeronautics and Space Administration
$55,000 12 months

James J. Kolata, Ani Aprahamian
Nuclear Structure Research
National Science Foundation
$14,500 12 months

James J. Kolata, Ani Aprahamian
International Theory Collaboration
National Science Foundation
$11,800 12 months

Terrence W. Rettig
An Infrared Search for Organic Molecules in Preplanetary Disks around Young Stars
National Aeronautics and Space Administration
$180,082 36 months

Michael C. Wiescher
Low Energy Nuclear Reactions in Late Stellar Evolution
National Science Foundation
$8,000 12 months

Psychology

Thomas V. Merluzzi
Enhancing Self-Efficacy with Solution Focused Therapy
National Institutes of Health
$74,500 12 months

Radiation Laboratory

Prashant V. Kamat, Albert E. Miller
Luminescent Semiconductor Nanostructures for Simultaneous Sensing and Destruction of Low Level Organic Contaminants in Water
Environmental Protection Agency
$350,150 36 months

Departmental Awards Received and Proposals Submitted

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

	AWARDS RECEIVED		PROPOSALS SUBMITTED	
Category	**No.**	**Amount**	**No.**	**Amount**
Research	44	$3,989,588	37	$14,247,289
Facilities and Equipment	0	0	0	0
Instructional Programs	2	131,583		
Other Programs	0	0	0	0
Service Programs	0	0	0	0
Total	46	$4,121,171	37	$14,247,289

Fiscal Year-to-date Cumulative

	AWARDS RECEIVED		PROPOSALS SUBMITTED	
Category	**No.**	**Amount**	**No.**	**Amount**
Research	44	$3,989,588	37	$14,247,2896
Facilities and Equipment	0	0	0	0
Instructional Programs	2	131,583		
Other Programs	0	0	0	0
Service Programs	0	0	0	0
Total	46	$4,121,171	37	$14,247,289

Awards Received

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

AWARDS FOR RESEARCH

Accountancy

Margaret B. Shackell-Dowell
Performance Measurement Systems in B2C Internet Firms
Chartered Institute of Management Accountants
$17,912 17 months

Aerospace and Mechanical Engineering

Thomas C. Corke
Plasma Actuator Array Development for Cross-Flow Instability Control
Arizona State University
$44,422 7 months

Edmundo Corona, James J. Mason, Steven R. Schmid, Joseph M. Powers
Bending and Springback of Laminated Steel
MSC Laminates and Composites, Inc.
$30,000 12 months

Joseph M. Powers
Modelling Combustion of Energetic Materials with Intrinsic Low Dimensional Manifolds
Los Alamos National Laboratory
$10,000 36 months

Biological Sciences

John H. Adams
Molecular Analysis of Apical Organelles of Plasmodium
National Institutes of Health
$260,750 12 months

Nora J. Besansky
Genetics of Anopheles Funestus Populations
National Institutes of Health
$397,180 11 months

Crislyn D'Souza-Schorey
Role of Vesicle Transport in Acquisition of Invasive Potential
Department of Army
$74,500 13 months

Frederick W. Goetz
Illinois-Indiana Sea Grant Program - Year Two
Purdue University
$40,525 12 months

David R. Hyde
Vertebrate Models of Dominant rdgB Mutations
Foundation Fighting Blindness
$74,260 36 months

David M. Lodge
Predicting the Identity and Impact of Nonindigenous Species in the Great Lakes
Environmental Protection Agency
$450,000 36 months

Joseph E. O'Tousa
Genetic Analysis of Retinal Degeneration
National Institutes of Health
$286,425 12 months

Jeffrey S. Schorey
Role of Mycobacterial Fibronectin Binding Protein (FAP) in Mediating Attachment of Mycobacteria to Epithelial Cells"
International Food Protection, Inc.
$68,500 24 months

JoEllen J. Welsh
Vitamin D Mediated Apoptosis in Mammary Cells
National Institutes of Health
$268,200 12 months

Chemical Engineering

Edward J. Maginn, Joan F. Brennecke
GOALI: Design and Evaluation of Room Temperature Ionic Liquids for Green Chemical Processing
National Science Foundation
$160,394 24 months

Edward J. Maginn, Mark J. McCready
Designing Nanostructured Cataysts to Exploit Mass Transfer Enhancement Caused by Macroscale Hydrodynamics
National Science Foundation
$99,853 11 months

Paul J. McGinn
Combinatorial Investigation of Catalytic Diesel Soot Combustion
Cummins, Inc.
$19,370 12 months

Chemistry and Biochemistry

Paul W. Huber
Localization of Vgl mRNA
American Heart Association
$55,000 12 months

Dennis C. Jacobs
MURI Center for Materials Chemistry in the Space Environment
University of Chicago
$82,878 7 months

Marya Lieberman
Career: From Surface to Solution
National Science Foundation
$12,672 36 months

Slavi C. Sevov
Synthesis of New Intermetallic Clathrates and Optimization of the Thermoelectric Efficiency
American Chemical Society
$60,000 26 months

Olaf G. Wiest
Teacher-Scholar Award for 2001
Camille and Henry Dreyfus Foundation
$60,000 48 months

Civil Engineering and Geological Sciences

William G. Gray, Robert L. Irvine
GAANN for Computational Geology
Department of Education
$115,428 24 months

Billie F. Spencer, Yahya C. Kurama
Smart Damping for Seismic Protection
National Science Foundation
$100,000 42 months

The Classics

Brian A. Krostenko
Voicing Ideology: Art and Social Code in Cicero's *Political Oratory*
National Humanities Center
$26,500 12 months

Electrical Engineering

Daniel J. Costello
Research in Bandwidth Efficient Turbo Coding
Massachusetts Institute of Technology
$25,000 11 months

Michael D. Lemmon
Algorithmic Verification and Synthesis of Hybrid Control Systems
National Science Foundation
$49,858 24 months

Alan C. Seabaugh
Tunneling Based SRAM
Intel Corporation
$17,060 24 months

Gregory Lynn Snider (Center or Institute)
Fabrication and Characterization of High Temp. Nanostructures
National Science Foundation
$66,049 36 months

Government and International Studies

Timothy R. Scully (Center or Institute)
ACE FY00/01
Corporation for National Service
$62,000 24 months

Mathematics

Jianguo Cao
Geometric Analysis on Complete Aspherical Spaces
National Science Foundation
$95,008 36 months

Qing Han
Partial Differential Equations and Variational Problems
National Science Foundation
$84,001 11 months

Xiaobo Liu
Gromov-Witten Invariants and Isoparametric Submanifolds
National Science Foundation
$75,205 35 months

Natl. Cons. for Grad. Degrees for Minorities, Engr and Science

Saundra Johnson
Minority Ph.D. Program in Engineering and Science
Sloan Foundation
$25,000 12 months

Physics

Albert-László Barabási
Dynamics of Complex Networks
National Science Foundation
$46,000 24 months

Jacek K. Furdyna, Malgorzat Dobrowolska-Furdyna
Optical and Far Infrared Studies of Semiconductor Heterostructures
National Science Foundation
$105,000 24 months

Anthony K. Hyder
Technology Applications Reviews
National Technology Transfer Center
$1,000 11 months

Christopher F. Kolda
Probing the Physics of the Hierarchy Problem
National Science Foundation
$52,000 11 months

Terrence W. Rettig
Using HST Observations to Understand the Structure of Comets
Space Telescope Science Institute
$33,500 24 months

Michael C. Wiescher
Low Energy Nuclear Reactions in Late Stellar Evolution
National Science Foundation
$8,000 11 months

Radiation Laboratory

Jay A. LaVerne, Simon M. Pimblott, Dan Meisel (Center or Institute)
Effects of Water Radiolysis in Water Cooled Nuclear Reactors
Department of Energy
$187,442 24 months

Romance Languages and Literatures

Colleen M. Ryan
Povere ma belle: Women and Italian Cinema (1945-1975)
AAUW Education Foundation
$27,000 12 months

Sociology

GilbResearcherto Cárdenas (Center or Institute)
Latino Educational Policy Briefing Seminars
W.K. Kellogg Foundation
$59,701 12 months

Daniel J. Myers
Race and Collective Violence, 1967-1972
National Science Foundation
$150,995 24 months

The Graduate School (Vice President)

Peter Diffley
Fellowship for KEELY LANGE
Environmental Protection Agency
$5,000 48 months

Awards for Instructional Programs

Educational Talent Search

Myrtie Coleman, Warren Outlaw
Talent Search
Department of Education
$10,000 24 months

Institute for Educational Initiatives

Joyce V. Johnstone (Center or Institute)
Title II Improving Student Achievement through More Effective Teachers, 2000-2001 New K-16 Transition Partnerships
Indiana Professional Standards Board
$121,583 12 months

Proposals Submitted

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

Aerospace and Mechanical Engineering

Thomas J. Mueller
An Experimental Study of Trailing Edge Noise (Optional Trailing Edge Shapes)
Department of Navy
$27,451 12 months

Timothy C. Ovaert
Letter of Intent for a Center for Micro-Mechanical Surface Damage
National Science Foundation
$0 12 months

Art, Art History and Design

Maria C. Tomasula
Baroque Proposals, a Series of Oil Paintings
Howard Foundation
$20,000 9 months

Biological Sciences

Sunny K. Boyd
Neuropeptide Modulation of a Vocal Motor Pathway
National Science Foundation
$349,266 36 months

John G. Duman
CAREER: Centrosomes and Cell Cycle Regulation
National Science Foundation
$571,525 60 months

Frederick W. Goetz
Star (Steroidogenic Acute Regulatory) Protein Expression and Function in the Brook Trout Ovary
National Science Foundation
$420,822 36 months

Alan L. Johnson
Cellular Determinants of Differentiation versus Apoptosis in Avian Granulosa Cells
National Science Foundation
$411,151 36 months

Edward E. McKee
Mitochondrial Uptake, Metabolism, and Toxicity of Nucleoside Analogs
I.U. School Medicine
$214,500 36 months

Neil F. Shay
Novel Insulin Sensitizing Effects of Soybean Phytochemicals
Southern Illinois University
$51,750 36 months

Center for Social Concerns

Jerome V. Caponigro
RCLC Technology Center
Department of Education
$157,275 12 months

Chemical Engineering

Joan F. Brennecke, Mark A. Stadtherr, Gary A. Lamberti
Determining the Environmental Impact of Room Temperature Ionic Liquids Prior to Widespread Industrial Use
Environmental Protection Agency
$245,478 24 months

Edward J. Maginn
Strategic Design and Optimization of Inorganic Sorbents for Cesium, Strontium, and Actinides
Department of Energy
$169,000 36 months

Agnes E. Ostafin
CAREER: Nano-shell Bioengineering
National Science Foundation
$374,999 60 months

Andre F. Palmer
Characterization of Novel Lipid Vesicles for Drug Delivery by Neutron Scattering
University of Maryland
$224,997 48 months

Chemistry and Biochemistry

J.D. Gezelter
CAREER: Dynamics of Model Biolonical Membranes and Glass Formation in Liquid Metals
National Science Foundation
$558,627 60 months

Holly Goodson
Flagellar Function and the Role of Motility in Virulence of Giardia lamblia
Georgetown University
$10,000 24 months

Victoria A. Ploplis
Thrombolysis and Atherosclerosis in Neutrophil Elastase-Deficient Mice
American Heart Association
$214,500 36 months

Julie A. Wilberding
The Role of Fibrinogen in Atherosclerosis and Pulmonary Fibrosis
American Heart Association
$195,000 48 months

Civil Engineering and Geological Sciences

Ahsan Kareem
Thermal Programmed Desorption and Availability Characterization of Nitroaromatics in Biotreated Soils
Stanford University
$25,000 5 months

College of Engineering

Frank P. Incropera, Robert J. Cunningham
Nanotechnology Engineering Center at the University of Notre Dame
Department of Energy
$2,875,000 56 months

College of Science

Steven A. Buechler, Joachim J. Rosenthal, Francis X. Connolly
VIGRE: Vertical Integration of Research and Education at Notre Dame
National Science Foundation
$2,246,604 60 months

Computer Science and Engineering

Patrick Flynn, Robert L. Stevenson, Danny Z. Chen
Instrumentation for Multidimensional Imaging and Applications
National Science Foundation
$166,007 24 months

Jesus A. Izaguirre
CAREER: Scalable Mathematical and Computational Models for Biomolecular Modeling
National Science Foundation
$384,918 60 months

Peter M. Kogge
Data Sets, Baseline Performance Reference Points, and Evaluation Metrics for Human ID: Subcontract to Notre Dame
University of South Florida
$137,937 12 months

Electrical Engineering

Martin Haenggi
CAREER: Modeling and Tradeoffs in AD Hoc Wireless Networking
National Science Foundation
$475,066 60 months

Alan C. Seabaugh
Tunnel-Assisted CMOS Process for Embedded Memory and Mixed Signal Circuts
Intel Corporation
$611,491 36 months

History

Kathleen A. Biddick
Thinking about History in a Digital World
Council International Exchange Scholars
$30,000 9 months

Mathematics

David P. Nicholls
CAREER: Stable High Order Perturbation Methods in Fluid Mechanics, Acoustics, and Electromagnetics
National Science Foundation
$526,788 60 months

Physics

Dinshaw S. Balsara
Adaptive Simulations of Physics-Rich Supernova Remnants: Making Contact with Observations
National Aeronautics and Space Admininistration
$536,528 36 months

Dinshaw S. Balsara
Collaborative Proposal: Fast Dynamos in the Computer, the Galaxy and the Laboratory
National Science Foundation
$210,000 24 months

Dinshaw S. Balsara
Simulating Pre-Stellar Cores and Extracting Radiative Diagnositics for Comparison with Observations
National Aeronautics and Space Admininistration
$881,876 36 months

Michael C. Wiescher
Supplement to Low Energy Nuclear Reactions in Late Stellar Evolution
National Science Foundation
$5,894 12 months

Psychology

Steven M. Boker
Quantitative Lab Analysis
National Collegiate Athletic Association
$5,100 12 months

Bradley S. Gibson, Michael J. Wenger
A New Look at Contingent Capture
National Science Foundation
$281,120 36 months

Anita E. Kelly
Why Do Public Self-Presentations Lead to Changes in Private Self-Conceptions?
National Science Foundation
$261,920 60 months

Robert L. West
Neural Mechanisms Underlying Prospective Memory
National Science Foundation
$220,187 36 months

Sociology

Gilberto Cárdenas
IUPLR Latino HIV/AIDS Education and Promotion Project
Health and Human Services
$149,512 12 months

Centers and Institutes
Awards Received and Proposals Submitted

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

	AWARDS RECEIVED		PROPOSALS SUBMITTED	
Department or Office	**No.**	**Amount**	**No.**	**Amount**
Alliance for Catholic Education	2	$183,583	0	$ 0
Center for Latino Studies	1	$59,701	1	149,512
Nano Science and Technology Center	1	$66,049	0	0
Radiation Laboratory	1	$187,442	0	0
Robinson Community Learning Center	0	0	1	$157,275
South Bend Center for Medical Education	0	0	1	$214,500
Total	5	$496,775	3	521,287

Fiscal Year-to-date Cumulative

	AWARDS RECEIVED		PROPOSALS SUBMITTED	
Department or Office	**No.**	**Amount**	**No.**	**Amount**
Alliance for Catholic Education	2	$183,583	0	$ 0
Center for Latino Studies	1	$59,701	1	149,512
Nano Science and Technology Center	1	$66,049	0	0
Radiation Laboratory	1	$187,442	0	0
Robinson Community Learning Center	0	0	1	$157,275
South Bend Center for Medical Education	0	0	1	$214,500
Total	5	$496,775	3	$521,287

Awards Received

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

Awards for Research

Alliance for Catholic Education

Timothy R. Scully (Center or Institute)
ACE FY00/01
Corporation for National Service
$62,000 24 months

Center for Latino Studies

Gilberto Cárdenas (Center or Institute)
Latino Educational Policy Briefing Seminars
W.K. Kellogg Foundation
$59,701 12 months

Nano Science and Technology Center

Gregory Lynn Snider (Center or Institute)
Fabrication and Characterization of High Temp. Nanostructures
National Science Foundation
$66,049 36 months

Radiation Laboratory

Jay A. LaVerne, Simon M. Pimblott, Dan Meisel (Center or Institute)
Effects of Water Radiolysis in Water Cooled Nuclear Reactors
Department of Energy
$187,442 24 months

Awards for Instructional Programs

Alliance for Catholic Education

Joyce V. Johnstone (Center or Institute)
Title II Improving Student Achievement through More Effective Teachers, 2000-2001 New K-16 Transition Partnerships
Indiana Professional Standards Board
$121,583 12 months

Proposals Submitted

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

Proposals for Research

Center for Latino Studies

Gilberto Cárdenas
IUPLR Latino HIV/AIDS Education and Promotion Project
Health and Human Services
$149,512 12 months

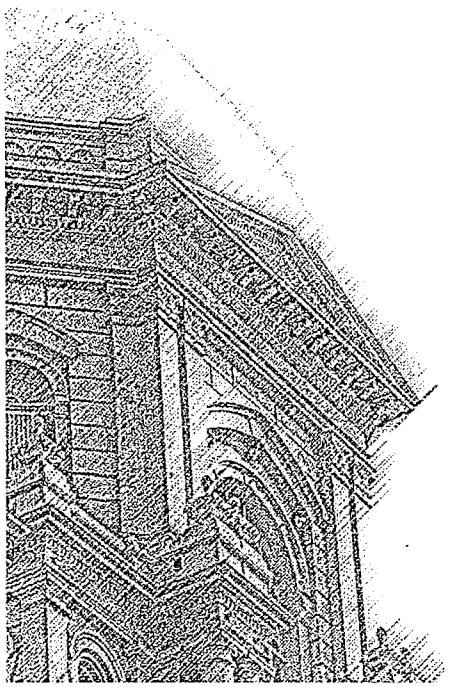
Robinson Community Learning Center

Jerome V. Caponigro
RCLC Technology Center
Department of Education
$157,275 12 months

South Bend Center for Medical Education

Edward E. McKee
Mitochondrial Uptake, Metabolism, and Toxicity of Nucleoside Analogs
I.U. School Medicine
$214,500 36 months

Notre Dame Report



Volume 31, No. 1
August 24, 2001

Notre Dame Report is an official publication published fortnightly during the school year, monthly in the summer, by the Office of the Provost at the University of Notre Dame.

Kate Russell, Editor
University Communications Design
502 Grace Hall
Notre Dame, IN 46556-5612
(219) 631-4633
e-mail: ndreport.1@nd.edu
© 2001 by the University of Notre Dame,
Notre Dame, IN 46556.
All rights reserved.