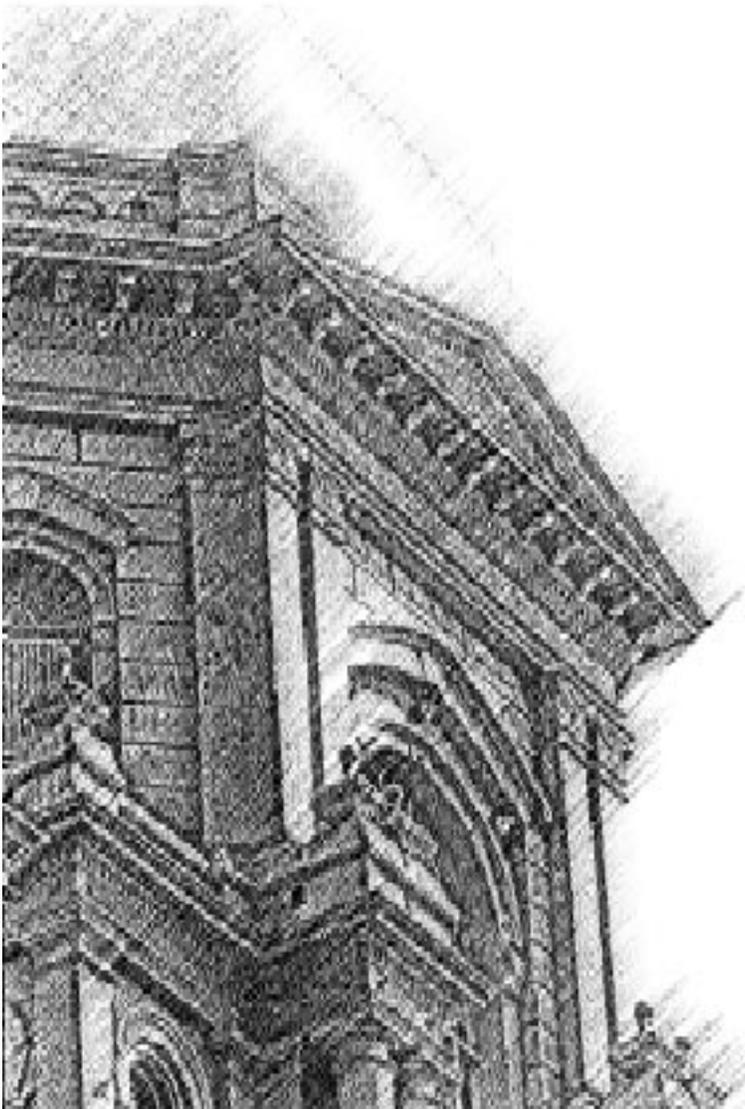


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N U M B E R 9

Faculty Notes

Honors

Robert R. Coleman, associate professor of art history, was elected president of the Midwest Art History Society (MAHS) for 2008–11. MAHS, with over 500 members throughout the Midwest, is an organization that comprises academic, museum-based, and independent art historians.

Fernand “Tex” Dutille, professor of law, has been chosen by the Assumption College Alumni Association for its 2007 Dion Outstanding Achievement Award.

Ralph McInerney, the Grace Professor of Medieval Studies and professor of philosophy, received the 2007 Brownson Award from the Orestes Brownson Council for his inspiration to the University community.

Activities

Ani Aprahamian, professor of physics, presented the following invited talks: “JINA at Notre Dame” at the 22nd “Winter Workshop on Nuclear Dynamics,” La Jolla, Calif., March 11–19, 2006; “Deformed Nuclei and $K=0+$ Excitations” at a symposium on contemporary frontiers in nuclear structure at the 231st ACS meeting, Atlanta, March 26–30; “Nuclear Physics in Action: Following the Light in the Universe” at a colloquium at Western Kentucky Univ., Bowling Green, April 3; “How We Did It at Notre Dame” at the 49th annual conference of science editors held in Tampa, Fla., where she was a panelist at a session on “Influential Women in Science,” May 21, 2006; “The Science of JINA” to high school teachers participating in the JINA-sponsored PIXE-PAN program held at the Notre Dame Institute for Structure and Nuclear Astrophysics, June 15, 2006; “News and Views from the Users of ATLAS” at the “ATLAS Science and Technology Review,” Argonne National Laboratory, June 20–21, 2006; and “Light and Dark Matter” at a seminar at the Univ. of Richmond, Feb. 14, 2007.

Dinshaw Balsara, assistant professor of physics, presented “Simulating the Turbulent Mixing of Metals and Radioactivities in the ISM” and “Anisotropic Thermal Conduction in Supernova Remnants” at the IGGP conference “Numerical Modeling of Space Plasma Flows,” March 27–30, 2006; and “Simulating the Turbulent Mixing of Metals and Radioactivities in the ISM” on April 19, 2006, at Villanova Univ.

Eileen Hunt Botting, the Rolfs Assistant Professor of Political Science and director of the Gender Studies Program, chaired the “Imagination and Judgment” panel at the Midwest Political Science Association meeting in Chicago, April 17, where she presented “Making Mary Wollstonecrafts, Making Modern Feminisms: The Symbolic and Strategic Use of Mary Wollstonecraft in First-Wave British, German, and American Women’s Rights Movements.” The paper, written with C. Carey and E. Kozlow, was presented again at a political theory workshop at the Univ. of Michigan in Ann Arbor on March 23, and a third time at the Western Political Science Assoc. meeting in Las Vegas, March 9, where she organized a panel on “Gender, Intersectionality, and Social Movements.” On Feb. 12, she presented “Protofeminist Responses to the Federalist-Antifederalist Debate” at the Univ. of Chicago political theory workshop.

Bernard Doering, professor emeritus of Romance Languages and Literatures, presented “Simone Weil and Jacques Maritain: *A Grande Amitié* Never Fulfilled?” at the annual meeting of the American Simone Weil Society in Santa Fe at St. John’s College on April 28.

Ed Edmonds, associate dean for Library and Information Technology in the Kresge Law Library, presented “The Impact of Curt Flood’s Minor League Baseball Experiences on His Lawsuit Against Bowie Kuhn” at “*Nine*: A Journal of Baseball History and Culture 14th Annual Spring Training Conference” in Tucson, on March 16.

Rev. Virgilio P. Elizondo, the Notre Dame Professor of Pastoral and Hispanic Theology, concurrent professor of Latino Studies, and Kellogg Institute Fellow, presented a symposium on the future of San Antonio on the 275th anniversary of the foundation of San Fernando Cathedral and the city of San Antonio, on March 3; “The State of Latino/a Vocations” to the Holy Cross Summit on Vocations at Moreau Seminary on March 20; “Narrative and Preaching” for the Alban Seminar at Virginia Theological Seminary, on March 22; and “The Immigrant: A Gift of God” at Princeton Univ., March 29–31.

Georges Enderle, the Ryan Professor of International Business Ethics and Fellow of the Kellogg Institute and the Nanovic Institute, participated in “An Interfaith Dialogue Fostering Global Harmony Not Conflict—Buddhism, Christianity, Islam, Judaism, Mormonism” at Purdue Univ. Calumet on April 19; and organized the conference “Muslim, Christian, and Jewish Views on the Creation of Wealth,” held April 23–24 at the Univ. of Notre Dame, where he presented the paper “Focus on the Creation of Wealth: Need, Clarifications, and Challenges.”

Thomas P. Fehlner, professor emeritus of chemistry and biochemistry, presented the first “Sheldon Shore Lecture,” titled “Systematic Metallaborane Chemistry,” at Ohio State Univ., April 13.

James M. Frabutt, associate professional specialist in the ACE Leadership Program and concurrent associate professor of psychology, presented “Supporting Community Safety Through University-Community Partnerships: Exploring Models of Engagement” at the annual CITA Conference “Community-University Partnerships: How Do We Achieve the Promise?” at the Univ. of Massachusetts, Lowell, in April.

Teresa Ghilarducci, professor of economics, presented “How Can We Ensure Retirement Security for All? What is the Role of Employment-Based Pensions in Achieving It?” at the Harvard Law School’s “Capital Matters: Managing Labor’s Capital” conference, May 5.

Alexander Hahn, professor of mathematics and director of the Kaneb Center for Teaching and Learning, presented the Hesburgh Lecture “Math and Myth” to the Notre Dame Club of Columbus, Ohio, on March 18, and a second Hesburgh Lecture, “Galileo and His Science,” to the Notre Dame Club of Wilmington Del., on April 18.

Colin Jessop, associate professor of physics, presented “Physics with Electrons and Photons at the Large Hadron Collider” at Cornell Univ. on April 20; and “Radiative Penguin Decays at the BaBar Experiment” at Indiana Univ., Nov 11, 2006.

Prashant V. Kamat, professor of chemistry and biochemistry, senior scientist in the Radiation Laboratory, and concurrent professor of chemical and biomolecular engineering, presented “Nanostructure Hybrid Architectures for Solar Energy Conversion” at the “Second Energy Center Hydrogen Initiative Symposium,” Purdue Univ., West Lafayette, April 12–13; “Solar Energy Conversion Properties of Carbon Nanotubes-Porphyrins Composite Assemblies” written with T. Hasobe and S. Fukuzumi, “Organic Solar Cells Composed of Compounds Molecular Assemblies of Porphyrins and Fullerenes with Metal and Semiconductor Nanomaterials,” written with T. Hasobe and S. Fukuzumi, “SWCNT-Semiconductor Composites: Excited State Interactions, Charge Equilibration and Photocurrent Generation,” written with F. Vietmeyer and A. Kongkanand, and “Quantum Dot Solar Cells: Size Dependent Charge Injection and Photoelectrochemical Effect in CdSe-TiO₂ System,” written with staff member **Istvan Robel** and **Masuro K. Kuno**, assistant professor of chemistry and biochemistry, all at the Electrochemical Society meeting in Chicago, May 6–10; and on May 10, presented “Semiconductor-Carbon Nanotube Hybrid Architectures for Next Generation Solar Cells” at the “Symposium on Synthesis and Self-Assembly of Nanomaterials” at the “CNM User Meeting 2007,” Argonne National Laboratory.

Gary Lamberti, professor of biological sciences, presented “Ecotoxicity and Biodegradability of Ionic Liquids for Aquatic Organisms” at the BATIL meeting in Berlin, Germany, May 2–9.

Jay A. LaVerne, professional specialist in the Radiation Laboratory and concurrent research professor of physics, presented “Oxidizing Reactions at the Surface of Ceramic Oxides” at the “25th Miller Conference on Radiation Chemistry,” Buxton, England, April 14–19.

Xiaobo Liu, professor of mathematics, delivered the invited talk “Mean Curvature Flow for Isoparametric Submanifolds” at the 22nd “Geometry Festival” at the Univ. of Maryland on April 28.

David Lodge, professor of biological sciences, presented “Linking Invasive Species Science and Policy” at the Florida Exotic Plant Pest Council, May 1–3; and “Invasive Species in the Great Lakes” on a bus tour to Sault Saint Marie as guide for Great Lakes Learning Exp. for the Institute for Journalism and Natural Resources, May 8–11.

John LoSecco, professor of physics, presented the invited talk “The Search for the Neutrino Theta 13,” a Cornell Univ. LEPP Journal Club seminar, in Ithaca, N.Y., on March 16; “Double Chooz Simple Root and Ntuple Access Tutorial” and “Double Chooz Graphics Tutorial” on March 6, and “The Double Chooz Response to Supernova,” and “Through Going Muon Reconstruction” on March 7, all at the Double Chooz Collaboration meeting, CIEMAT, Madrid, Spain; and presented a poster titled “Supernova Detection with Double Chooz” on Feb. 23 at the conference “Twenty Years after SN1987A: What Did We Learn, What Will the Next SN Tell Us?” in Waikoloa, Hawaii.

Edward J. Maginn, professor of chemistry and biochemistry and director of graduate admissions, presented “Using Atomistic Simulations to Understand Structure-Property Relationships: Application to Ionic Liquids and Crystalline Nanoporous Materials,” a chemical and biological engineering departmental seminar, at Northwestern Univ., Evanston, Ill., on March 29.

Thomas V. Merluzzi, professor of psychology, presented a paper titled “Confirmatory Factor Analysis of the Cancer Behavior Inventory (Brief Version): Assessing Self-Efficacy for Coping in Cancer Survivors” with graduate student **Carolyn A. Heitzmann** et al.; “Assessing the Structure

of Self-Efficacy for Coping with Cancer: Confirmatory Factor Analysis of the Cancer Behavior Inventory (CBI-L)” with Carolyn A. Heitzmann; and “An Investigation of the Utility of Weighting Schemes for Domains of Quality of Life (QOL)” with graduate student **Errol J. Philip** et al., at the 28th annual meeting of the Society of Behavioral Medicine in Washington, D.C. He also presented, with Carolyn A. Heitzmann, the paper titled “Confirmatory Factor Structure and Measurement Invariance of the Cancer Behavior Inventory” at the fourth annual meeting of the American Psychosocial Oncology Society in Austin, Tex.

Rudolph M. Navari, adjunct professor of chemistry and biochemistry and director, Walther Cancer Research Center, presented “Emerging Agents and New Formulations for the Prevention of Chemotherapy Induced Nausea and Vomiting” at the physicians’ international conference “Emerging Strategies in Breast Cancer: Targeting Tomorrow’s Therapies Today” in Boston on May 12.

Rev. Ronald Nuzzi, director of the ACE Leadership program, presented “Charting the Future of Catholic Education” as the keynote address to Catholic educators in the Diocese of Venice, Fla., Fort Myers, on March 23; the following invited addresses at the annual National Catholic Educational Association (NCEA) convention in Baltimore: “Dissertations on Catholic Education 2004–2006” and “The Spirituality of Leadership,” April 10–12; a retreat for principals in the Diocese of Madison, Wisc., April 18; a weeklong professional development workshop for teachers in the province of Alberta, Canada, “The CSI Effect: The Truth, the Whole Truth, and Nothing but the Truth” (about teaching in a Catholic School), Kananaskis, Alberta, April 23–29; and a lecture in the Hesburgh Lecture Series, “Catholic School Still Make A Difference,” to the Notre Dame Club of Staten Island, April 10.

Susan Ohmer, the Carey Assistant Professor of Modern Communication, presented “The Very Model of Modernity: Disney’s Burbank Studio and the Industrial Space of Animation” at the Society for Cinema and Media Studies conference in Chicago, March 8–11, and chaired a panel on “Technology In/Of Animation.”

Karen E. Richman, director of Migration and Border Studies in the Institute for Latino Studies, presented “Transnational Politics and National Crisis: The Campaign of the Frozen Food King” to the panel “Transnationalism, Transition and Trans-formation: Local Politics and Global Crises in the Caribbean” at the “Disjunctive States: Crisis and Historicity in Cuba and Haiti” conference, Univ. of Chicago, April 22; “The Cross of the Migrant: Listening to Wyclef Jean, Jacques Roumain and Edwige D’Anticat” to the panel on “Routes to the Americas, Routes of the Americas” at “Transnationalism, Transnation, Translation: Dialogue on the Americas,” Univ. of Notre Dame, April 16; and “Go Back! A Defiant Migration from Guanajuato to Chicago” to the panel on “Economy, Class and Culture: Latino Chicago” at “SIGLO XXI: Economies of Class, Economies of Culture, IUPLR Conference,” Univ. of Texas, April 14. She also organized “Haitian States,” a Kellogg Institute regional workshop, held May 14–15, where she presented “A More Powerful Sorcerer.”

Jeanne Romero-Severson, associate professor of biological sciences, presented “QTL Mapping in *Aedes aegypti*” at the “Arthropod Genomics Symposium” at Kansas State Univ., Manhattan, April 19–21; and “Genetic Mapping in Northern Red Oak” at the “Schatz Tree Genetics Colloquium” at the Penn State Mont Alto campus, Apr. 29–May 3.

David Severson, professor of biological sciences, presented “*Aedes aegypti* Genomics: What’s Next?” at the Univ. of Illinois, Champaign-Urbana, Apr. 22–23.

Martin Tenniswood, professor of biological sciences, presented “Site Specific Acetylation of p53 Directs Selective Transcription Complex Assembly on p53” at “Experimental Biology 2007” in Washington, D.C., April 26–May 2.

Julia Adeney Thomas, associate professor of history, presented “Not Art, but Politics: Photography and Postwar Japan’s Fugitive Reality” at Ohio State Univ. on April 20; and “Leadership in Postwar Japan: The Seen, the Unseen, and the Unseeing” at the “International Conference on Japan in Honor of Professor Ben-Ami Shillony,” the Hebrew Univ. of Jerusalem, April 29–May 2.

Steve Tomasula, associate professor of English, was a visiting author at Brown Univ., Providence, R.I., April 15–18, where he gave a reading of his fiction. He also gave the following invited readings: “Color of Flesh,” KGB, New York, March 23, and “Medieval Times,” Univ. of Maine, Orono, on March 22. He was also interviewed on *New Letters on the Air*, NPR Kansas City and other NPR stations, on Jan. 17.

Thomas Vihtelic, research associate professor of biological sciences, presented “Zebrafish Lens Opaque (lop) Mutation Mapping and Gene Identification” at the Association for Research in Vision and Ophthalmology (ARVO) in Fort Lauderdale, Fla., May 7–10.

JoEllen Welsh, professor of biological sciences, presented “Modulation of PXR and VDR Pathways in HepG2 Cells” at “Experimental Biology 2007” in Washington, D.C., Apr. 30–May 1; and “Calcium, Vitamin D and the VDR: Impact on Breast and Prostate Cancer” at the NIH meeting in Washington, D.C., May 7–8.

Samir Younés, associate professor of architecture and the Rooney Director of Rome Studies, gave a seminar titled “The Architectural Layers of the Campo Marzio” to the European School of Urbanism and Architecture in Rome, May 8–12.

Publications

Ani Aprahamian, professor of physics, published “Complete Spectroscopy of the ^{162}Dy Nucleus” with X. Wu et al., *Nucl. Phys. A* 764 (2006): 42–78; “Investigation of the ^{19}Na Nucleus via Resonance Elastic Scattering” with **James J. Kolata**, professor of physics, **Larry O. Lamm**, research professor of physics, et al., *Physics of Atomic Nuclei* 69 (2006): 1979; “ β -Decay Half-Lives and β -Delayed Neutron Emission Probabilities for Neutron Rich Nuclei Close to the $N = 82$ r-Process Path” with F. Montes et al., *Phys. Rev. C* 73 (2006): 035801; “Doppler Shift as a Tool for Studies of Resonant (p,n) Reactions with RIBs, Spectroscopy of ^7He ” with James J. Kolata, Larry O. Lamm, et al., *Proceedings of 12th International Symposium on Capture Gamma-ray Spectroscopy and Related Topics*, Notre Dame, Indiana, A. Woehr and A. Aprahamian, eds. (2006): 221–5; “ $K=0^+$ Bands in Gadolinium Nuclei” with G. Popa et al., *ibid.*: 587–8; and

“Astrophysical r-Process” with M. Quinn et al., *ibid.*: 591–2; “Spectroscopic Structure of Exotic ^{19}Na ” with James J. Kolata, Larry O. Lamm, et al., *AIP Conference Proceedings* 819 (2006): 601.

J. Douglas Archer, librarian, contributed “When Is Religion Worship or ‘You Want to Do What in Our Meeting Room?’” and “And This Year’s ‘Winners’ Are...: The Top Ten Hit List for 2006” to *Focus on Indiana Libraries* 61, No. 5 (2007): 12.

Gerald Arnold, professor of physics, published “Josephson (001) Tilt Grain Boundary Junctions of High Temperature Superconductors” with R.A. Klemm, *Philosophical Magazine* 86 (2006): 2811–33.

Geoffrey J. Bennett, professor of law, published “Criminal Procedure and Sentencing” in *All England Law Reports Annual Review 2006* (2007): 159–75.

Howard A. Blackstead, professor of physics, published “Antiferromagnetism and Superconductivity: Cuprate Plane Magnetic Ordering in $\text{YSr}_2\text{Cu}_{2.1}\text{Nb}_{0.9}\text{O}_{8.8}$ ” with **Michael Kornecki** and **Matthew P. Smylie**, physics staff members, *Phys. Rev. B* 75 (2007): 140514(R).

Bruce A. Bunker, professor of physics, published “Molecular Dynamics Modeling of Ion Adsorption to the Basal Surfaces of Kaolinite” with I.F. Vasconcelos and R.T. Cygan, *The Journal of Physical Chemistry C* 111, No. 18 (2007): 6753–62.

Jianguo Cao and **Mei-Chi Shaw**, professors of mathematics, published “The d-dar Cauchy Problem and Non-Existence of Lipschitz Levi-Flat Hypersurfaces in $\mathbb{C}P^n$ with $n=3$ ” in *Mathematische Zeitschrift* 256 (2007): 175–92.

Olivia Remie Constable, professor of history, published “Chess and Courtly Culture in Medieval Castile: The *Libro de Ajedrez* of Alfonso X, *el Sabio*,” *Speculum* 82 (2007): 301–47.

E. Jane Doering, associate professional specialist, concurrent assistant professor of College Seminar, and executive coordinator of the Teachers as Scholars Program, published “*Le dialogue et la confrontation des civilisations à la lumière de la pensée de Simone Weil*,” *Cahiers Simone Weil* XXX, No. 1 (2007): 26–36.

Morton R. Eskildsen, assistant professor of physics, published “Small-Angle Neutron Scattering Measurements of the Vortex Lattice in CaC_6 ,” with R. Cubitt et al., *Physical Review B* 75 (2007): 140516(R).

Richard W. Fessenden, professor emeritus of chemistry and biochemistry, published “Reactions of Hydrated Electron with Various Radicals: Spin Factor in Diffusion-Controlled Reactions” with T. Ichino, *Phys. Chem. A* 111, No. 13 (2007): 2527–41.

James M. Frabutt, associate professional specialist in the ACE Leadership Program and concurrent associate professor of psychology, published “Reducing Disproportionate Minority Contact in the Juvenile Justice System: Promising Practices” with E.R. Cabaniss, et al., *Aggression and Violent Behavior, A Review Journal* 12 (2007): 393–401; and “Factors Associated with Both Mental Health and Juvenile Justice Involvement Among Children with Severe Emotional Disturbance” with K.N. Graves et al., *Youth Violence and Juvenile Justice: An Interdisciplinary Journal* 5 (2007): 147–67.

Stefan Frauendorf, professor of physics, published “Evidence for Particle-Hole Excitations in the Triaxial Strongly-Deformed Well of ^{163}Tm ” with **Umesh Garg**, professor of physics, et al., *Physics Letters B* 647 (2007): L 243–8.

Umesh Garg, professor of physics, published “The Giant Monopole Resonance in the Sn Isotopes: Why is Tin so ‘Fluffy’” with graduate appointment **Tao Li**, R. Marks, et al., *Nuc. Phys. A* 788 (2007): 36c–43c; and “Measurement of the GMR in the Unstable ^{56}Ni Nucleus using the Active Target Maya” with C. Monrozeau et al., *ibid.*: 182c–7c.

Peter M. Garnavich, associate professor of physics, published “Anomalous Optical Gamma-Ray Burst Afterglows Are Common: Two $z \sim 4$ Bursts, GRB 060206 and GRB 060210” with **J. Christopher Howk**, assistant professor of physics, et al., *Astrophysical Journal Letters* 654 (2007): 21–24.

John F. Gaski, associate professor of marketing, published “A Comment on Selected Wilkie and Moore-Inspired Commentaries in ‘The Sages Speak,’” *Journal of Public Policy & Marketing* 26, No. 1 (Spring): 126–30.

Joachim Görres, research professor of physics, published “The F-19 ($\alpha, p\gamma$)Ne-22 Reaction and the Abundance of Fluorine in Asymptotic Giant Branch (AGB) Stars” with **Edward J. Stech**, assistant professional specialist in physics, **Michael C. Wiescher**, the Freimann Professor of Physics, et al., *Revista Mexicana de Fisica* 52, No. 1 Suppl. S (2006): 46–49; “The Importance of O-15(α, γ)Ne-19 to X-ray Bursts and Superbursts” with Michael C. Wiescher et al., *Astrophysical Journal* 650, No. 1 (2006): 332–7; and “Astrophysical S Factor for Alpha-Capture on Sn-112 in the p-Process Energy Range” with **Larry O. Lamm**, research professor of physics, **Edward J. Stech**, **Michael C. Wiescher**, et al., *Phys. Rev. C* 75, No. 2 (2007): 025801.

Kevin Hart, the Notre Dame Professor of Philosophy and Literature, Fellow of the Nanovic Institute, and editor of *Religion and Literature*, published “The Trader’s Wife,” *The Salt Companion to Harold Bloom*, ed. R. Sellars and G. Allen (Cambridge, UK: Salt, 2007): 23–24; “Phenomenality and Christianity,” *Angelaki* 12, No. 1 (2007): 41–57; “Brisbane” and “Our Truth” (poems), *The Warwick Review* 1, No. 1 (2007): 105, 106; and the poem “Snow” in *Poetry Daily: Essentials*, ed. D. Boller (2007). A Chinese translation of *Flame Tree: Selected Poems* was published by Jiangsu Press, Beijing, in 2007.

David Hyde, the Kenna Professor of Biological Sciences, published “A Mirror-Symmetric Cell Division that Orchestrates Neuroepithelial Morphogenesis,” *Nature* 446 (2007): 797–800; and “Regeneration of Inner Retinal Neurons after Intravitreal Injection of Ouabain in Zebrafish,” *Journal of Neuroscience* 27 (2007): 1712–24.

Thomas Jemielity, professor emeritus of English and Fellow in the Nanovic Institute, published “Borrowing from Brideshead,” *Evelyn Waugh Newsletter*, www.lhup.edu/jwilson3/Newsletter_37.3.htm.

Carlos Jerez-Farrán, professor of Iberian and Latin American studies, published *La Pasion de san lorca y el placer de morir* (Madrid: Visor Libros, 2006).

Colin Jessop, associate professor of physics, published “Measurement of the Branching Fraction and Photon Energy Moments of $B \rightarrow X_s \gamma$ and $A_{CP}(B \rightarrow X_{s+d} \gamma)$ ” with the

BaBar Collaboration, *Phys. Rev. Lett.* 97 (2006): 17180; and “Branching Fraction Measurements of $B^+ \rightarrow p^+ \gamma$, $B^0 \rightarrow p^0 \gamma$, and $B^0 \rightarrow w \gamma$ ” with the BaBar Collaboration, *ibid.* 98 (2007): 151802.

Walter R. Johnson, the Freimann Professor of Physics, published “Revised Transition Probabilities for Fe XXV: Relativistic CI Calculations” with **Ulyana I. Safronova**, adjunct professor of physics, *Atomic Data & Nuclear Data Tables* 93 (2007): 139–47; *Atomic Structure Theory: Lectures on Atomic Physics*, (Berlin: Springer Verlag, 2007); and “QED Corrections to the 4p-4d Transition Energies of Copperlike Heavy Ions,” with **Jonathan R. Sapirstein**, professor of physics, et al., *Physical Review A* 74 (2006): 1–9.

James Kolata, professor of physics, published “Breakup of ^6He Incident on ^{209}Bi near the Coulomb Barrier” with staff member **Tabatha Spencer**, *Phys. Rev. C* 75 (2007): 031302 (4 pages); “Performance of the RADPHI Detector and Trigger in a High Rate Tagged Photon Beam” with **Larry O. Lamm**, research professor of physics, et al., *Nuclear Instruments and Methods in Physics Research A* 570 (2007): 384–98; “A Large Segmented Neutron Detector for Reaction Studies with Radioactive Beams near the Coulomb Barrier” with H. Amro et al., *ibid.* 557 (2006): 594–8; “Reaction and Proton-Removal Cross Sections of ^6Li , ^7Be , ^{10}B , $^{9,10,11}\text{C}$, ^{12}N , $^{13,15}\text{O}$, and ^{17}Ne on Si at 15 to 53 MeV/Nucleon” with R.E. Warner et al., *Physical Review C* 74, No. 2 (2006): 014605; “Capture Cross Sections for the Near Symmetric $^{124}\text{Sn}+^{96}\text{Zr}$ Reaction” with A.M. Vinodkumar et al., *ibid.*: 064612; “Studies of Fusion Cross Sections of Te and Sn Isotopes with a ^{64}Ni Target at Energies near and Below the Barrier” with D. Shapira et al., *Proceedings of American Institute of Physics /Fusion06*, L. Corradi et al., eds. (2006); “Spectroscopy of ^9C via Resonance Scattering of Protons on ^8B ” with G.V. Rogachev et al., *Physical Review C* 75 (2007): 014603; “Fusion of Radioactive ^{132}Sn with ^{64}Ni ” with J.F. Liang et al., *Physical Review C* 75 (2007): 054607 (9 pages); and “Neutron Transfer Reactions Induced by ^8Li on ^9Be ” with V. Guimarães et al., *ibid.*: 054602 (9 pages).

Rudolph M. Navari, director of the Walther Cancer Research Center and adjunct professor of chemistry and biochemistry,

published "Overview of the Updated Antiemetic Guidelines for Chemotherapy-Induced Nausea and Vomiting," *Community Oncology* 4 (2007): 1s–11s.

William O'Rourke, professor of English, published "Acquired Tastelessness," *Nuvo* 18, No. 8 (April 18–25): 10; and "Creative Writing and the Virginia Tech Massacre" in *The Chronicle of Higher Education* LIII, No. 36 (May 11): B5.

Susan Ohmer, the Carey Assistant Professor of Modern Communication, published "Speaking for the Audience: Double Features, Public Opinion, and the Struggle for Control in 1930s Hollywood" in the *Quarterly Review of Film and Video* 24, No. 2 (2007): 143–69.

Terrence Rettig, professor of physics and associate director of the Center for Astrophysics, published "Dust Stratification in Young Circumstellar Disks" with **Erika**

L. Gibb, visiting research professor of physics, **Dinshaw S. Balsara**, assistant professor of physics, **David A. Tilley**, research associate in physics, et al., *Astrophysical Journal* 646 (2006): 342–50; 2. "Post-Outburst Infrared Spectra of V1647 Ori, the Illuminating Star of McNeil's Nebula" with **Erika L. Gibbet** et al., *Astrophysical Journal* 641 (2006): 383–8; and "CO Line Emission and Absorption from the HL Tauri Disk—Where Is All the Dust?" with **S.D. Brittain** et al., *ibid.* 626 (2006): 283–91.

Ulyana I. Safronova, adjunct professor of physics, published "Excitation Energies, Polarizabilities, Multipole Transition Rates, and Lifetimes in Th IV" with **Walter R. Johnson**, the Freimann Professor of Physics, and **M.S. Safronova**, *Physical Review A* 74 (2006): 1–9.

Steve Tomasula, associate professor of English, published "Frank, R.M. Berry" in

Review of Contemporary Fiction 26, No. 3 (Fall 2006): 149; and "Francis Johnson, Stacey Levine," *ibid.*: 150–1.

Christopher Waller, professor and the Schaefer Chair of Economics, published "Heterogeneity and Lotteries in Monetary Search Models" with **Lotz** et al. in *Journal of Money, Credit and Banking* (2007): 703–13; and "Money and Risk Sharing" with **R. Reed** in *Journal of Money, Credit, and Banking* 38 (2006): 1599–618.

James Walton, emeritus faculty, English, published "On the Attribution of 'Mrs. Veal,'" *Notes and Queries* (March): 60–62.

Michael C. Wiescher, the Freimann Professor of Physics, published "Mg and Al Production in Intermediate-Mass Asymptotic Giant Branch Stars" with **Joachim Görres**, research professor of physics, et al., *New Astronomy Reviews* 50, Nos. 7–8 (2006): 500–3.

Administrators' Notes

Activities

Alan S. Bigger, director of Building Services, presented the keynote speech presented "Carpe Diem: Seize the Day!" at the West Virginia Association of Higher Education Facilities Officers' 2007 spring conference in Roanoke, W.V., on April 16.

Eduardo Carrasco-Flores, research associate in the Radiation Laboratory, presented "FTIR and Raman Spectroscopy of Oxidizing Species Produced in the Radiolysis of Water Adsorbed on Ceramic Oxide Particles," written with **Jay A. LaVerne**, professional specialist in the Radiation Laboratory and concurrent research professor of physics, and **Simon M. Pimblott**, professional specialist in the Radiation Laboratory and concurrent professor of physics, at the "25th Miller Conference on Radiation Chemistry," Buxton, England, April 14–19.

Kathleen A. Kiesselbach, communications specialist for the Nanovic Institute for

European Studies, exhibited her work in a solo show of lithographs, intaglio prints, and wood engravings at the TaigMarks Gallery in Elkhart, running March 10 through Sept. 10.

Anusorn Kongkanand, postdoctoral research associate in the Radiation Laboratory, made two presentations at the Electrochemical Society meeting in Chicago, May 6–10: "Single-Walled Carbon Nanotube Scaffolds for Improving Charge Transport Efficiency in Nanostructured Titanium Dioxide Films," written with **R.M. Dominges** and **Prashant V. Kamat**, professor of chemistry and biochemistry, senior scientist in the Radiation Laboratory, and concurrent professor of chemical and biomolecular engineering; and "Titanium Dioxide Nanotube Array as a Support for Platinum Electrocatalyst," written with **Prashant V. Kamat**.

Yoichiro Matsunaga, postdoctoral research associate in the Radiation Laboratory, presented "Preparation and Characterization

of the OPE-Hybridized SWCNTs Material" at the Electrochemical Society meeting in Chicago, May 6–10. The presentation was written with Radiation Laboratory staff member **Pallikkara K. Sudeep**, **P.V. James**, **K.G. Thomas**, **T. Akasaka**, and **Prashant V. Kamat**, professor of chemistry and biochemistry, senior scientist in the Radiation Laboratory, and concurrent professor of chemical and biomolecular engineering.

Brian Seger, graduate appointment in the Radiation Laboratory, presented "Probing Exchangeable Protons in a Nafion Film using Thiazine Dyes" at the Electrochemical Society meeting in Chicago, May 6–10. The presentation was written with **Kizhanipuram Vinodgopal**, visiting scholar in the Radiation Laboratory, and **Prashant V. Kamat**, professor of chemistry and biochemistry, senior scientist in the Radiation Laboratory, and concurrent professor of chemical and biomolecular engineering.

Publications

Alan S. Bigger, director of Building Services, published "Declare Your Independence: Is There Life After Outsourcing?" in *ShopTalk* 12, No. 1 (spring); and "Carpe Diem: Seize the Day" with L.B. Bigger, *Executive Housekeeping Today* 29, No. 5 (May): 6–8.

Julien Bonin, research associate in the Radiation Laboratory, published "Reaction of the Hydroxyl Radical with Phenol in Water Up to Supercritical Conditions" with **Ireneusz Janik**, research associate in the Radiation Laboratory, student **Dorota Janik**, and **David M. Bartels**, professional specialist in the Radiation laboratory and concurrent professor of chemistry and biochemistry, *J. Phys. Chem. A* 111, No. 10 (2007): 1869–78.

Dirk M. Guldi, visiting scholar in the Radiation Laboratory, published "Synthesis, Characterization, and Photoinduced Electron Transfer in Functionalized Single Wall Carbon Nanohorns" with C. Coffi et al., *J. Am. Chem. Soc.* 129, No. 13 (2007): 3938–45.

Ireneusz Janik, research associate in the Radiation Laboratory, published "Reaction of O₂ with the Hydrogen Atom in Water up to 350 °C" with **David M. Bartels**, professional specialist in the Radiation laboratory and concurrent professor of chemistry and biochemistry, et al., *J. Phys. Chem. A* 111, No. 1 (2007): 79–88.

Manish S. Kelkar, staff member in the Dept. of Chemical and Biomolecular Engineering, published "Photoelectron Spectrum of Isolated Ion-Pairs in Ionic Liquid Vapor" with **Edward J. Maginn**, professor of chemical and biomolecular engineering and director of graduate admissions, et al., *Journal of Physical Chemistry A*, 111 (2007): 3191–5.

Jean-Claude Mazière, staff member in the Radiation Laboratory, published "Interplay of Oxygen, Vitamin E, and Carotenoids in Radical Reactions Following Oxidation of Trp and Tyr Residues in Native HDL3 Apolipoproteins. Comparison with LDL: A Time-Resolved Spectroscopic Analysis" with **David M. Bartels**, professional specialist in the Radiation Laboratory and concurrent professor of chemistry and biochemistry; **Gordon L. Hug**, associate professional specialist in the Radiation Laboratory; **René Santus**, staff member in the Radiation Laboratory; et al., in *Biochemistry* 46, No. 17 (2007): 5226–37.

Erica Price, research associate in the Radiation Laboratory, published "Solvated Electron Spectrum in Supercooled Water and Ice" with **David M. Bartels**, professional specialist in the Radiation Laboratory and concurrent professor of chemistry and biochemistry, et al., *Chemical Physics Letters* 438 (2007): 234–7.

Puspalata Nil Rajesh, staff member in the Radiation Laboratory, published "High Dose Radiolysis of Aqueous Solutions of Chloromethanes: Importance in the Storage of Radioactive Organic Wastes" with **Jay A. LaVerne**, professional specialist in the Radiation Laboratory, and **Simon M. Pimblott**, professional specialist in the Radiation Laboratory and concurrent professor of physics, *J. Nucl. Mater.* 361 (2007): 10–17.

István Robel, research associate in the Radiation Laboratory, published "Size-Dependent Electron Injection from Excited CdSe Quantum Dots into TiO₂ Nanoparticles" with **Masaru Kuno**, assistant professor of chemistry and biochemistry, and **Prashant V. Kamat**, professor of chemistry and biochemistry, senior scientist in the Radiation Laboratory, and concurrent professor of chemical and biomolecular engineering, *J. Am. Chem. Soc.* 129, No. 14 (2007): 4136–7.

Brian Seger, chemistry and biochemistry staff member, published "Proton Activity in Nafion Films: Probing Exchangeable Protons with Methylene Blue" with **Kizhanipuram Vinodgopal**, visiting scholar in the Radiation Laboratory, and **Prashant V. Kamat**, professor of chemistry and biochemistry, senior scientist in the Radiation Laboratory, and concurrent professor of chemical and biomolecular engineering, in *Langmuir* 23, No. 10 (2007): 5471–6.

Nathan J. Silvernail, staff member, published "Quantitative Vibrational Dynamics of Iron in Carbonyl Porphyrins" with **W. Robert Scheidt** et al., *Biophysical Journal* 92 (2007): 3763–83.

Boris B. Skorodumov, staff member in physics, published "Lowest Excited States of ¹³O" with **Plamen S. Boutachkov**, research associate in physics; **Ani Aprahamian**, professor of physics; **Sergio Almaraz** and **Honan Amro**, physics staff members; **James Kolata**, professor of physics; **Larry O. Lamm**, research professor of physics; **Matthew A. Quinn**, physics staff member; and **Andreas Woehr**, research assistant professor of physics, in *Physical Review C* 75 (2007): 024607.

Iliya Todorov, staff member, published "In Search of Cyclohexane-Like Sn⁶¹²⁻: Synthesis of Li₂Sn₇ (Ln=CE Pr, Sm, Eu) with an Open-Chain Heptane-Like Sn₇¹⁶⁻ Instead" with **Slavi C. Sevov**, professor of chemistry and biochemistry, *Inorganic Chemistry* 46 (2007): 4044–8.

Documentation

Faculty Recognition

50 YEARS OF SERVICE

Rev. John S. Dunne, C.S.C.
Theology

25 YEARS OF SERVICE

J. Douglas Archer
University Libraries

David M. Betson
Economics and Policy Studies

Michael C. Brownstein
East Asian Languages & Cultures

Robert R. Coleman
Art, Art History, and Design

Noreen Deane-Moran
English

JoAnn DellaNeve
Romance Languages and Literatures

Michael R. DePaul
Philosophy

Thomas P. Flint
Philosophy

Laura S. Fuderer
University Libraries

Umesh Garg
Physics

Nasir Ghiaseddin
Management

Richard L. Gray
Art, Art History, and Design

Eugene W. Halton
Sociology

Yih-Fang Huang
Electrical Engineering

A. Graham Lappin
Chemistry and Biochemistry

Scott E. Maxwell
Psychology

Guillermo A. O'Donnell
Political Science

Maria R. Olivera-Williams
Romance Languages and Literatures

F. Clark Power
Program of Liberal Studies

J.K. Rigby Jr.
Civil Engineering and Geological Sciences

David F. Ruccio
Economics and Policy Studies

Anthony S. Serianni
Chemistry and Biochemistry

Dennis M. Snow
Mathematics

Jennifer L. Warlick
Economics and Policy Studies

Faculty Promotions

TO EMERITA OR EMERITUS

Joseph Bobik
Philosophy

Neal M. Cason
Physics

William E. Dawson
Psychology

A. Edward Manier
Philosophy

Rev. Jerome H. Neyrey, S.J.
Theology

Daniel J. Sheerin
Classics

John J. Uhran Jr.
Computer Science and Engineering

Barbara E. Walvoord
Office of the Provost
College of Arts and Letters

TO ASSOCIATE PROFESSIONAL SPECIALIST

Harriet Baldwin
College of Arts and Letters

Deborah Donahue
Keck Center

Daniel Graff
History

Christy Greene
First Year of Studies

Kerry Meyers
College of Engineering

Tonia Hap Murphy
Accountancy

Mayra Sandoval-Cooper
Keck Center

TO PROFESSIONAL SPECIALIST

Holly Martin
First Year of Studies

Sharon K. Schierling
Kellogg Institute

Barry Van Dyck
Executive MBA

TO ASSOCIATE LIBRARIAN

Patricia Loghry
University Libraries

TO LIBRARIAN

Laura Fuderer
University Libraries

TO ASSOCIATE PROFESSOR AND TENURE

Wendy Arons
Film, Television, and Theatre

Brian Baker
Chemistry and Biochemistry

Dinshaw Balsara
Physics

Timothy Bays
Philosophy

Eileen Botting
Political Science

David Campbell
Political Science

William Carbonaro
Sociology

John Duffy
English

Kathleen Eberhard

Psychology

S. Alex Kandel

Chemistry and Biochemistry

Daniel Lindley

Political Science

Orlando Menes

English

Susan Ohmer

Film, Television, and Theatre

Ryan Roeder

Aerospace and Mechanical Engineering

Robert Sedlack

Art, Art History, and Design

TO TENURE: ASSOCIATE PROFESSOR

Colin Jessop

Physics

Michael Kirsch

Law

Julian Velasco

Law

TO PROFESSOR

Robert Battalio

Finance

Sunny Boyd

Biological Sciences

Michael Gekhtman

Mathematics

Kenneth Henderson

Chemistry and Biochemistry

Timothy Matovina

Theology

Rev. Wilson Miscamble, C.S.C.

History

Clive Neal

Civil Engineering and Geological Sciences

Gretchen Reydam-Schils

Program of Liberal Studies

John Stamper

Architecture

Sergei Starchenko

Mathematics

Maria Tomasula

Art, Art History, and Design

Ted Warfield

Philosophy

Randall Zachman

Theology

TO DEPARTMENT CHAIR

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Philosophy

Stephen M. Fallon

Program of Liberal Studies

Thomas Fuja

Electrical Engineering

Elizabeth Mazurek

Classics

Rory M. McVeigh

Sociology

H. Fred Mittelstaedt

Accountancy

Dian H. Murray

East Asian Languages & Cultures

TO ENDOWED PROFESSOR

Robert P. Schmuhl

*Walter H. Annenberg-Edmund P. Joyce
Chair in American Studies and Journalism*

Donald Crafton

Notre Dame Chair in Film and Culture

George A. Lopez

*Reverend Theodore M. Hesburgh, C.S.C.
Professor of Peace Studies*

Tim Loughran

C.R. Smith Chair in Finance

Maria C. Tomasula

Michael P. Grace Professor of Art

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*Associate Dean for Faculty Research
Law School*

Steven A. Buechler

*Associate Dean for Undergraduate Studies
College of Science*

Edmund P. Edmonds

*Associate Dean for Library and Information
Technology
Law School*

Gretchen J. Reydam-Schils

*Associate Dean for Research, Graduate
Studies, and Centers*

College of Arts and Letters

TO ENDOWED DIRECTOR

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*Arthur F. and Mary J. O'Neil Director of
the Eugene D. Fanning Center of Business
Communication*

Samir Younés

*Francis and Kathleen Rooney Director of
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Eileen Hunt Botting

Director of Gender Studies

Cornelius R. Eady

Director of the Creative Writing Program

Vaughn R. McKim

*Director of the History and Philosophy of
Science*

Ronald Sakal

*Executive Director of the Center for Building
Communities*

Rev. Edmund P. Joyce, C.S.C. Award for Excellence in Teaching

The award recipients for this year are:

Sunny Boyd, biological sciences; **Yu-Chi Chang**, management; **Kathleen Cummings**, Cushwa Center for the Study of American Catholicism; **Paul Down**, art, art history and design; **Jan-Lüder Hagens**, German and Russian languages and literatures; **Louis MacKenzie**, Romance languages and literatures; **A. James McAdams**, political science; **Jeffrey Miller**, accountancy; **Carolyn Nordstrom**, anthropology; **Rev. Mark Poorman**, C.S.C., theology; **William Ramsey**, philosophy; **Siiri Scott**, film, television and theatre; **Michael Stanisc**, aerospace and mechanical engineering; **Jeffrey Talley**, civil engineering and geological sciences; **Richard Taylor**, chemistry and biochemistry; **A. Peter Walshe**, political science; and **Michael Wiescher**, physics.

Dockweiler Awards for Excellence in Teaching

The award recipients for the inaugural year are:

Carl Ackermann, finance; Rev. James Foster, C.S.C., preprofessional studies; and L. John Roos, political science.

Academic Council Meeting

University of Notre Dame

Meeting of January 24, 2007

Members Present: Rev. John I. Jenkins, C.S.C., Dennis Jacobs, Jean Ann Linney, Panos Antsaklis, Seth Brown, Steven Buechler, Austin Collins, James Collins, Tom Cosimano, Mary Rose D'Angelo, Neil Delaney, Stephen Fallon, Nicole Garnett, Nasir Ghiaseddin, Michael Jenuwine, Tara Johnson, Kelly Jordan, Joseph Marino, James McAdams, Jim Merz, Stephen Molvarec, Patrick Murren, Robert Nelson, Patricia O'Hara, Hugh Page, Ram Ramanan, Valerie Sayers, Scott Van Jacob, Jennifer Warlick, Jennifer Younger

Members Absent: Brian Claassen, Chris Harris, Tom Lamontagne, Susan Guise Sheridan, Richard Taylor, Bill Westfall

Members Excused: Thomas G. Burish, John Affleck-Graves, Chris Maziar, Rev. Mark Poorman, C.S.C., Don Pope-Davis, Charles Barber, Ken DeBoer, Umesh Garg, Graham Hammill, Colin Jessop, Michael Lykoudis, Mark Roche, Maura Ryan, Carolyn Woo

Observers Present: Kevin Barry, Mary Hendriksen, Harold Pace, Dan Saracino, Dennis Brown, Greg Sterling

Observers Absent: Capt. Mike Neller

Observers Excused: Brandon Roach, Don Wycliff

Guests: Stephen Batill, Professor, Dept. Chair, Aerospace and Mechanical Engineering

The Revered John Jenkins, CSC opened the meeting at 3:05 p.m. Prof. Garnett offered a prayer.

1. Minutes of the meeting of November 2, 2006: The minutes of the meeting of November 2, 2006, were approved without change.

2. Proposal for a Ph.D. in Bioengineering: Fr. Jenkins explained that the proposal for a Ph.D. in bioengineering was first approved by the Graduate Council in 2006, and then was sent to the Executive Committee of the Academic Council. The Executive Committee had a number of questions related to the anticipated size of the program, resources, collaborations with the College of Science, and positioning within the College and the broader field of bioengineering. Following review of written responses from the College of Engineering, the Executive Committee voted to recommend approval of the proposal at its last meeting. Fr. Jenkins asked the interim dean of the College of Engineering, Prof. James Merz, to provide a fuller explanation of the proposal.

Prof. Merz first introduced Stephen Batill, professor and chair of aerospace and mechanical engineering, and Mark McCready, professor and chair of chemical and biomolecular engineering, and described both as the "authors" of the bioengineering proposal.

Prof. Merz then made some general remarks on the proposal, focusing on the importance of approval of this new degree to the College of Engineering. Bioengineering will eventually be a major program at the University, he said. Almost every college of engineering in the country has a program in either bioengineering or biomedical engineering. Notre Dame has a small program already, although it is not currently possible to earn a Ph.D. in bioengineering here. There are five faculty members working on bioengineering at Notre Dame—all with a particular focus on orthopedics. The students of these faculty members now graduate with a degree in aerospace and mechanical engineering. About 15 per cent of the Engineering faculty do research in some form of bioengineering, and there are ongoing, very promising discussions with faculty in the College of Science about collaborations and research activities. One example is the discussions occurring between Frank Collins, professor of biological sciences and director of Notre Dame's Center for Global Health and Infectious Diseases, and Engineering's computer science department about establishing a bioinformatics or computational biology program.

Prof. Merz explained that expectations for the proposed bioengineering degree are for it to:

- raise the profile of research in bioengineering as well as in the College of Engineering in general;
- improve the ability of the College to recruit graduate students and additional faculty in bioengineering;
- enhance opportunities in the College for funding; and
- serve as a catalyst for collaborations between Notre Dame's Colleges of Engineering and Science as well as between those colleges and the Indiana University Medical School in South Bend;

Prof. Merz then explained (and as set forth in more detail at pages 5-6 of the attachment) that all students admitted to the graduate program in bioengineering would have "dual citizenship." That is, while they would be members of the bioengineering program, they would also be members of one of the College's existing five departments. In fact, their "home base" would be one of the departments. Under this structure, he said, departments can provide administrative and financial support to students and remove the pressure for such support from the fledgling program. He added that the College has committed well over \$175,000 to launching the bioengineering program.

After informing Council members that Prof. McCready has agreed to serve as the first director of the bioengineering program, Prof. Merz went on to describe curriculum for the proposed degree, which would include courses in engineering, science, bioscience, and bioengineering. Faculty in all five College of Engineering departments will teach and research in the program.

As for the impact and distinctiveness of the program, Prof. Merz expanded on his earlier statements on orthopedics. With three of the four or five major orthopedics companies in the world located in Warsaw, about one hour away from the Notre Dame campus, Indiana has assumed a position as the capital of the orthopedics world. Notre Dame has a strong interaction already with those companies. In fact, he spent last

Friday at Purdue University talking about ways the state can build on its existing strength in orthopedics. He and others were asked at that time if the proposed doctoral program in bioengineering could come to be recognized as the best in the country. Their answer was that this is most definitely their hope. While Notre Dame would be starting small, the intent from the beginning is to construct a first-class program. There is already considerable talent at Notre Dame and some six million dollars in funding. Even without the benefit of a formal program, three orthopedics graduate students have already gone on to secure strong post-doctoral positions after leaving the University.

The bottom line, Prof. Merz declared, is that the absence of a Ph.D. degree in bioengineering could have a very negative impact on the College of Engineering. Not to have such a degree removes the opportunity for Notre Dame to achieve the same presence in this field as nearly every other college of engineering in the country. While there are still details in the proposal to be worked out—for example, the amount of start-up funding for publicity and seminar speakers that is expected from the Graduate School—it is a program that has been constructed with thought and care. Initially, support for the program comes from the Graduate School, but ultimately, primary support is to come through research and extramural research support. The Graduate School would contribute on a one-to-two matching program. Prof. Merz concluded by strongly encouraging Academic Council members to approve the proposed degree program.

Prof. Brown asked for clarification: Is there currently any formal program in bioengineering at Notre Dame?

Prof. McCready answered that, now, the University has no formal program called “bio-engineering.” While there is considerable research activity that falls under the heading “bioengineering,” no University program exists at the Ph.D. level that takes that name.

Then, asked Prof. Brown, is it possible to imagine that a program in bioengineering could exist without a degree by that name—in other words, by way of a number of interdisciplinary programs that do not grant a degree?

Prof. Merz answered that while it is possible to imagine such a scenario, one could not imagine it being successful. Engineering is now attempting to hire very senior people in the field of bioengineering. If there is no bioengineering Ph.D., they are unlikely to join the University. The College is committing resources to the field already, but if students cannot walk away with a “Ph.D. in bioengineering,” he simply cannot believe that bioengineering could, in fact, grow to be anything significant here.

Prof. McCready clarified that a doctor of philosophy degree in bioengineering is a very standard degree throughout the country. Notre Dame is not creating a new degree by that title. The subject title “bioengineering” in the doctor of philosophy degree is a distinction that is truly important for students.

Prof. Batill added that research groups in bioengineering are typically very highly multidisciplinary. In the case of orthopedics, teams will have some members whose work is very much oriented towards biology—for example, because of their work with tissue—and others who would be considered almost classical solid mechanicians. This is true for a professor such as Glen Niebur, who is currently housed in the campus multidisciplinary research lab and has a number of NIH grants related to orthopedics. In his lab, while some students are earning a Ph.D. in aerospace and mechanical engineering, in order to build an appropriate research group that can span the disciplines and compete for funding within the National Institutes of Health, other students will want a degree called “bioengineering.” Thus, it is the ability for the College to provide both of those credentials in the context of an interdisciplinary program that is important.

While first thanking the proposal’s authors for considering the state of the library resources in the field of bioengineering, Dr. Younger acknowledged that current resources would not support the needs of new faculty in this area. This is usually the case, of course, any time a program is expanded. She supported the approach of using the library of the Indiana University School of Medicine to support the program because it makes good use of their resources, particularly in Notre Dame’s

allied programs. Yet, it is also important, Dr. Younger said, to look at the research needs of faculty and students who do not have access to the medical library. She is not as confident as the proposal’s authors in the belief that there will be no demand on library resources at Notre Dame. While she does not want to delay the program, she simply asks that, down the road, the College of Engineering agree to work with the Library.

Prof. Merz said Dr. Younger’s remarks are well taken. The Library faces a dilemma whenever a new program comes along, and the faculty can often overlook the fact that new programs put very real demands on it. He is sure that Engineering will be able to work with the Library and ensure that the new program is not jeopardizing library allocations. Faculty and students in the program will have access to considerable resources elsewhere.

Prof. Buechler asked about the structure of the program, particularly Prof. Merz’s statement that students will have two “homes”—one within the bioengineering program and one in another academic department. He asked how this compares to other programs across the country.

Prof. Batill said that the structure proposed for Notre Dame may be somewhat different than those used elsewhere; but because of the administrative support the various Engineering departments can offer, it offers the most efficient way to get the program running. If more resources were available, perhaps an alternate structure would work; however, because the College is starting with finite numbers and the intent is to avoid students losing a departmental affiliation, the College has chosen the dual-home structure.

Prof. Merz added that many institutions have a department of bioengineering or biomedicine. The world of engineering is most definitely “going bio.” He has no doubt that if all the engineers in the room were asked for their opinion, they would say that, some day, it would make sense for there to be a bioengineering or biomedical department at Notre Dame. This program is starting small, though, and at this stage, the dual-home structure is preferable.

Prof. Buechler asked: In terms of requirements for the Ph.D. in coursework and

work supplementary to it, how does the proposed program compare to what is in place at other institutions?

Prof. McCready replied that the requirements for the degree proposed for Notre Dame are quite comparable to those of other institutions regarding types of courses, the amount of emphasis on research activities, and administrative structure. A good example would be Berkeley. While it has a biomedical program, it also has a bioengineering program with components similar to that proposed for Notre Dame. At Berkeley, too, faculty build their own research groups by collecting researchers with multidisciplinary interests. Prof. McCready continued that regarding administrative structure, at least three prominent institutions—M.I.T., Georgia Tech, and Berkeley—all have doctoral bioengineering programs that do not reside in a department.

Prof. Batill added that the authors of the proposal scoured the country looking at comparable models. They wanted to preserve the intensity of the coursework found at these institutions; thus, the total number of courses is very similar to that required elsewhere. And, the choices of courses reflects the interdisciplinary nature of biomedical engineering very well—in line with the best of the programs found elsewhere in the country.

Prof. Antsaklis first remarked that it is obvious that the proposal's authors have put much thought and work into constructing a new degree program. He has some concerns, though, that perhaps the venture is too modest. The investment asked of the University is really only a few graduate students and very little money. These resources pale when compared to what is in place at Stanford or Harvard, both of which are investing hundreds of millions of dollars in their programs. Five years from now, he asked, what can Notre Dame's program hope to achieve? If the goal is simply to manage more effectively what is already undertaken and perhaps provide some visibility for Notre Dame, he thinks it will succeed; but why wait? Why not create a bioengineering department right now?

Prof. McCready answered that the total University investment in bioengineering is much more than is represented in this doctoral program. First, we have the new

multidisciplinary research building at the University, which cost approximately ten million dollars. Then, the College has two endowed open chairs at the moment—both to be filled requiring additional University investment—each with start-up costs of \$500,000. In addition, a number of junior faculty positions are to follow. Thus, Notre Dame's total investment in bioengineering is substantially more than what is required on paper for this degree program. Initiation of this program is what is needed now to support what we have now. Otherwise, what we have may dwindle.

Prof. Antsaklis questioned if the cost of the new multidisciplinary building should be associated specifically with bioengineering.

Prof. McCready replied that one of the limitations on hiring has been space. When he is recruiting faculty members and brings them through that new building, it plays a critical role in their decision to join the faculty.

Prof. Antsaklis reiterated his full support of the program. His only criticism is that perhaps the vision should have been a bit larger. "Ask for more."

Prof. Merz said that there should be no mistake. The proposal's authors and the College have big plans and big dreams. They are currently trying to attract one of the leading bioengineering/biomedical academics in the country to Notre Dame. Conversations have been held between this individual and the College, as well as with the Provost, about what resources would be required for him to come to Notre Dame and build a program. Prof. Merz said he does not want to frighten the administration or the members of the Academic Council, but the program's backers are most definitely not thinking modestly. The proposed doctoral program in bioengineering is but one building block in an attempt to put Notre Dame on the map in terms of a substantial program in bioengineering. Quite simply, Notre Dame cannot hope to attract the people it needs in this field if it does not offer this degree.

Prof. Sterling, attending today's meeting on behalf of Dean Roche, said that while he was impressed by the proposal, he has two questions: First, when the University thinks about advancing its research agenda as a whole, how does the bioengineering

proposal fit in a scale of priorities? That is, if the University invests what is asked in this program, which seems to make a good deal of sense, what is given up for the next few years? Is the bioengineering proposal competing against another program contemplated by the Graduate School or the Office of Research? Second, he asked if the program's supporters could be more explicit about the relationship between the College of Engineering and the orthopedic companies in Warsaw. Are the relationships formal or informal? Is it a matter of placing graduates at Medtronic, or Zimmer, or Biomet, or is it more a matter of engaging in collaborative research projects with these companies?

Prof. Merz replied that the relationship with the Warsaw companies is a strong one. In fact, it was clear when he was at Purdue last Friday that Notre Dame has the strongest relationship in the state with the orthopedic companies. The University has received four to six million dollars of 21st Century funding from the three companies for several of its faculty members; thus, the orthopedic companies are definitely supporting research at Notre Dame. Prof. Merz added that there was serious thought on the part of Zimmer about constructing some sort of a building in the South Bend area to expand its activities—along with ongoing discussions about an innovation park or industrial research park. Had discussions about the park occurring now taken place three or four years ago, there probably would be a Zimmer building in South Bend. Nonetheless, Prof. Merz said, there is keen interest on the part of those companies in continuing interaction with Notre Dame. Yet, he said, Notre Dame does not want to confine itself just to these three companies. Industrial interactions are very important for engineers, but it is also important to receive funding from the National Institutes of Health, the National Science Foundation, and the Department of Defense—all of which Notre Dame has been successful doing. He would like to see more success with that funding, yet, without a doctoral program in bioengineering, it is difficult for others to take Notre Dame seriously about its commitment to the field.

On the subject of how this proposal falls into the general ranking of research priorities at Notre Dame, Prof. Merz said that a

doctoral program in bioengineering would be high on the list. Other priorities he might identify would be programs related to energy and the environment—both research activities as well as broad interdisciplinary programs that link engineering with science, and that link science and engineering with theology, philosophy, economics, psychology, and law. Prof. Merz acknowledged that the University is now involved in a search for a vice president for research, and that person may rank priorities differently. He believes, however, that the initiatives he has named would rank very highly in virtually any person's listing of the overarching interests of the University. They are all areas in which Notre Dame can have a significant impact.

Prof. O'Hara said that because the position of vice president for research is open at the University, she asked a question similar to that raised by Prof. Sterling at the executive committee of the Academic Council. While she does not purport to speak for the Provost [who was unable to attend today's meeting due to illness], she did ask him at that meeting how the proposed degree program fits within the University's overall research direction and the relative allocation of resources. Provost Burish answered her question indicating that he liked the interdisciplinarity of the proposal and the potential it has for faculty recruiting. Given the fact that Engineering had already put up some resources and that the Graduate School was willing to match that funding, it seemed within his mind to fit within the plan and vision for research at Notre Dame.

Prof. Jacobs said that he, too, supported the proposal, which he called long overdue in terms of the investment Notre Dame should be making in this area. One question he has, though, deals with the background and level of proficiency students entering the program are expected to have in biology—specifically, how rapidly they can develop the kinds of skills they need to be effective bioengineers. He noticed in supporting documentation that biology courses are not a requirement for entry into the program. Although that is perfectly acceptable, it seems that there should then be some understanding that students will take a number of courses to bring them up to speed. Biology has a very vertical curriculum. It builds up through introduc-

tory biology into cell biology, etc. Prof. Jacobs noted that the challenge in this case is not unlike that in any interdisciplinary program—having enough expertise in the various disciplines to be effective in the cross-disciplinary area.

Prof. McCready responded that the proposal's authors discussed this question at considerable length. It was decided that students should have a background that would allow them to take cell biology, which is the only formal biology requirement for degree recipients. Any students who are not ready to take cell biology before entering the program must, somehow, get to this point—perhaps by taking remedial courses.

Prof. Jacobs asked for the prerequisites for cell biology.

Prof. McCready answered that there are two: General Biology (BIOS 20201 and 20202) and organic chemistry (CHEM20223.) Depending on each student's area of interest and expertise, there will be other areas of mastery. It was decided that if students could understand biology at a cellular level, that was the absolute minimum requirement. Those involved in the program hope and expect that nearly all students will go beyond that basic requirement.

Prof. Marino asked a follow-up question: Is it still true that the chemical engineering undergraduate takes two courses in organic chemistry but engineers in other departments take only one?

Prof. McCready said that while chemical engineers would have had two organic chemistry courses, other engineers might not have taken even one organic chemistry class. It depends on which degree track a student is in.

Prof. Marino said that the point of his question was to demonstrate that enough flexibility must be built into the program to know that students might not complete all their prerequisite work in two years.

Seeing no further questions, Fr. Jenkins asked for a motion to approve the proposed Ph.D. degree in bioengineering. After a motion was made and seconded, Fr. Jenkins called for a vote. It was unanimous in favor of the new degree.

3. Proposal to change the name of the Department of East Asian Languages

and Literatures to the Department of East Asian Languages and Culture: Prof. Jenkins asked Prof. Sterling to introduce this topic.

Prof. Sterling explained that the proposal for the name change emerged from a recommendation of an interim report last spring of the task force on Asian studies. As a matter of "truth in advertising," it was thought that the department should change its name to represent what actually occurs within it. For example, there are departmental courses that include a good bit of film study or religion. The term "Languages and Literatures" is simply too narrow and does not suggest to undergraduate students the offerings and preparation that the department offers them, especially to individuals who are interested in Asia more broadly.

Mr. Van Jacob asked whether this will open up a whole new area of courses so that an undergraduate could become a major without taking literature or language courses.

Prof. Sterling answered that while he does not know what is contemplated for the future, majors must now undergo intensive language study.

Fr. Jenkins asked for a vote on the proposal, which passed unanimously.

4. Committee reports:

(a) **Undergraduate Studies:** Prof. Sayers reported on the activities of various subcommittees:

(1) **Grade Validity:** This subcommittee, with Dennis Jacobs as chair, is continuing to study and prioritize issues related to grade validity and to discuss possible recommendations to the committee as a whole and then to the Academic Council.

(2) **Faculty-Student Involvement:** A second subcommittee, dealing with faculty/student involvement, was formed at the suggestion of undergraduate students. Its members are discussing issues involving communications, especially "e" communications between students and faculty but also questions of mentorship and how faculty might be better approached to act as mentors and then serve as good mentors. Prof. Warlick has circulated some background

information on this topic. While members are not sure yet what will emerge as a final product, they have discussed possibilities such as a Web page or a brochure and are open to suggestions in that realm. In the meantime, they are compiling survey questions and thinking about focus groups, particularly with students.

(3) **Drop-Add Deadlines:** A third subcommittee is considering a proposal to change the University's drop/add date. Now set at eight days after the start of classes, a proposal has been made to change it to five. Prof. DeBoer of the First Year of Studies Office and subcommittee members met with the associate and assistant deans of the colleges, who were in general agreement that the change should be approved. There are still a number of contentious issues surrounding the change. One is the potential effects of the change on first-year students, who can be less savvy about course selection. The second is the broader question of how students in general would respond to a change—and the subcommittee has no information on that yet. Thus, the plan is to move the entire question to a new committee, now in the planning stages in the Provost's office, on the academic calendar. Four members of the Undergraduate Studies Committee will join the new committee. The consensus is that more research is needed on the topic of drop/add dates before any kind of recommendation can be made.

(b) **Faculty Affairs:** A member reported that the committee is meeting this week to continue work on three agenda items: mentoring faculty, procedures for increasing the presence of Catholic faculty at the University, and developing a process for faculty involvement in reallocation of resources likely to be precipitated by forthcoming efforts to raise the standing of the University among research universities.

(c) **Graduate Council:** Prof. Garg, who had prepared a report of activity of the last Graduate Council, was unable to deliver it because he was teaching that hour.

There being no further business, Fr. Jenkins adjourned the meeting at 4:00 p.m.

Respectfully submitted,

Jean Ann Linney
Vice President and Associate Provost

Minutes of the 309th Graduate Council Meeting

January 31, 2007

Present: Donald Pope-Davis (Chair), Peter Kogge (for James Merz), Mark Alber, Michael Lundin, Theodore Cachey, James McAdams, Gay Dannelly (for Jennifer Younger), Darcia Narvaez, Thomas Fuja, Gretchen Reydam-Schils (for Mark Roche), Graham Hammill, John Robinson (for Patricia O'Hara), Amber Handy, Thomas Slaughter, Sharon Hu, Scott Van Jacob, Carolyn Woo, Igor Veretennikov

Graduate School Representatives: Terry Akai, Michael Edwards, Barbara Turpin,
Absent: Philip Bess, Crislyn D'Souza-Schorey, Umesh Garg, James Marino, Christine Maziar, Rich Taylor, Robin Darling Young

Reporter: Mary Hendriksen

Prof. Pope-Davis called the meeting to order at 3:35 p.m.

I. APPROVAL OF THE MINUTES OF THE 308TH GRADUATE COUNCIL MEETING (NOVEMBER 29, 2006)

Prof. Pope-Davis invited a motion to approve the minutes of the Graduate Council meeting of November 29, 2006. After a motion was made and seconded, members approved the minutes without change.

Minutes of Council meetings have long been published in *Notre Dame Report*. A member requested that minutes be posted as well on the Web. [Minutes from the 2006–2007 academic year have now been posted on the Graduate Council page of the Graduate School Web site. See <http://graduateschool.nd.edu/html/about/gc.html>]

[In addition, *Notre Dame Report* has recently introduced an on-line version of its publication. See <https://www3.nd.edu/~provost/academic-resources-and-information/NDreport/>]

II. UPDATE ON GRADUATE STUDENT HEALTH INSURANCE

At the meeting of November 29, 2006, Dr. Terry Akai, associate dean for financial aid for Graduate Studies, provided an extensive update on graduate student health insurance at Notre Dame. At today's meeting, he announced that Hewitt Associates has been selected as the consultant. It continues to be a fast-tracked project, he said. The Graduate School should receive the consultant's report by May 2007.

In the meantime, the Graduate School will continue to offer Mega health insurance to graduate students for the next academic year. The premium, which was \$1310 for the 2006–07 academic year, will rise to \$1415 next year—actually, a rate increase a bit lower than expected, Dr. Akai said. The subsidy the Graduate School provides to students will be at least at the same level as last year: Approximately \$380.

Prof. Pope-Davis clarified that the goal is to have the new health insurance plan in place by the 2008–09 academic year. Given that the consultant's recommendations are due this May, the earliest date for Graduate Council input will be the first meeting of the next academic year. All at the Graduate School recognize the importance of pushing forward in this area and offering graduate students the best possible mix of premium and coverage.

Mr. Lundin asked: Has the consultant been instructed to look at only certain options, or was it given a wider mandate?

Prof. Pope-Davis responded that the consultant is looking at the entire spectrum of choices; however, there are very few institutions offering 100% coverage. The Graduate School's own benchmarking study indicated that the norm is closer to 50% or 70% of premium coverage.

III. UPDATE ON GRADUATE STUDENT APPLICATIONS

Dr. Akai also updated members on graduate student applications to Notre Dame departments, most of which have a February 1 deadline. As of today, the Graduate School has received 3900 applications for next year, as compared to a total of 4100 last year. He expects there to be the usual flood of last-minute submissions tonight. The number of women applying

has remained constant at about 38%; the number of minority applicants is 14% of U.S. students—somewhat higher than in the past. International applications are at 33%, similar to past years. Some departments have seen a significant rise in applications—for example, Economics and Econometrics, Peace Studies, the Medieval Institute, and Sociology. Other departments, however, seem to be experiencing a noticeable drop in applications—including Aerospace & Mechanical Engineering, Electrical Engineering, Physics, and Architecture.

The big drop in applications occurred three years ago, he said, when the number of applications from international students, particularly Chinese students, declined sharply—perhaps in response to more stringent visa regulations. Now, there appears to be a slow increase from that initial drop.

Dr. Akai said that typically, the acceptance rate for international students is about half that of domestic students—thus, 10% compared to 20%.

Prof. Alber asked about applicants to the bioengineering program. Prof. Akai clarified that because that program was just approved, applications will not be accepted until the next cycle, in the 2008-09 academic year.

Dr. Akai and Prof. Pope-Davis then reviewed the revamped procedures for processing applications this year. For the first time, the Graduate School hired temporary workers during the holiday period to process applications and move them on to departments and directors of graduate studies. In most cases, that process was on target with its goal of a four-day turnaround time. Departments with early deadlines were processed first. While there were some glitches in a few departments, overall, the directors of graduate studies have expressed appreciation for the timeliness in which they have received the materials for applicants this year.

Prof. Alber asked if additional statistics were available—for instance, the number of applicants to the Graduate School who identified Notre Dame as their first-choice institution. While this particular data is not available, Dr. Akai said, he took this opportunity to expand on assessment of metrics

for graduate students—for example, GRE scores. He explained that there is considerable variation in applicants' scores, often related to whether the student is applying to a department in the humanities or in mathematics, the sciences, or engineering. There is also a discrepancy in typical verbal scores for domestic and international students. Overall, though, the mean scores for students admitted to Notre Dame (not merely applicants to Notre Dame) are: 600 verbal, 700 math, and 5 in analytical writing.

Prof. Pope-Davis offered to provide Graduate Council members with the Graduate School's "fact sheet," which provides data on applicants and accepted students. He will circulate the fact sheet at the March meeting. Soon, it will be available on the Web. Placement data will be provided at a future meeting. Fact sheets for the Business and Law Schools can be circulated at the next meeting as well.

Prof. Slaughter asked about progress in making the application process entirely paperless. Dr. Akai replied that while the technology exists for receiving letters of recommendation and statements of intent electronically, unfortunately, not with the University's current Banner system. He is in the process of writing up some recommendations for a new system, to be presented to Prof. Pope-Davis and then to the provost and the executive vice president. If approved, Dr. Akai cautioned, a paperless system for the Graduate School would still be three to four years away. It appears to be a very expensive proposition.

IV. UPDATE ON NATIONAL RESEARCH COUNCIL (NRC) ASSESSMENT OF DOCTORATE RESEARCH PROGRAMS

Dr. Barbara Turpin, associate dean for academic policies and programs, distributed a chart showing completion rates for the NRC program and faculty questionnaires.

She explained that nationally, there are more than 5,000 doctoral programs participating in the survey. As of January 30, 2007, the average institutional completion rate was 14.7%. At Notre Dame, 16 programs are participating in the survey, and 14 of those programs have submitted completed questionnaires. Thus, by tomorrow's deadline, two departments must submit their questionnaires in order to be included in the national rankings.

As for the faculty component of the NRC rankings (which has a February 15th deadline), faculty from various departments have widely varying completion rates—from a low of 33% to a high of 80%. Dr. Turpin explained that for a program to be included in the survey, 70-80% of its faculty must complete the faculty survey. Some faculty have encountered problems in filling out the survey, but she urged members to let colleagues know that she can usually find solutions. If faculty report that they are "too busy" to complete the survey, she sends that response on to their dean.

Several members remarked on the importance of encouraging colleagues to respond to the survey. If fewer than 70% of a department's faculty respond, that particular program will not be ranked. Such a result, said Prof. Pope-Davis, would be extremely damaging to departments—perhaps even "the kiss of death." Other members pointed out that when students apply to a program, its NRC ranking can be a critical factor in their choice of programs. Also, with the current survey, rankings will be available on line—and thus much more accessible to prospective students and faculty.

Prof. Slaughter and other members held a discussion of how data gathering might be streamlined and centralized at the University. Both the Office of Institutional Research and OIT were named as prime candidates for enabling members of the University community to respond to requests for data and making such requests more efficient.

V. NEW BUSINESS

Prof. Slaughter said that Prof. Taylor, who could not attend today's meeting, asked him to convey the following message to the Council: The decision to eliminate the hooding of PhD students from the Sunday graduation was received by the faculty of the Department of Chemistry and Biochemistry with disappointment. The faculty feel that the decision goes against the University's pronouncement of an elevation in the status of graduate education. They believe that the Graduate Council should have been consulted on this change prior to implementation. He suggests that the Council discuss the decision in detail and offer its support or opposition.

Prof. Slaughter said that discussion of this issue could serve as a possible starting point for a discussion of communication issues.

A member said that Dean Marino asked him to report on discussion of the new commencement ceremony in the Council.

Prof. Kogge said that there were concerns in his department as well about the change in commencement. He also said that as the new cycle of departmental reviews is put in place, a review of the Graduate School itself should occur early rather than later.

Prof. Pope-Davis said that there will be an update on the departmental review process at the next Graduate Council meeting.

There being no further business, Prof. Pope-Davis adjourned the meeting at 4:45 p.m.

University Committee on Women Faculty and Students

University of Notre Dame

Meeting of February 27, 2007

Members Present: Rev. Patrick Gaffney, CSC (chair), Leilani Arthurs, Amy Barrett, Sr. Susan Dunn, O.P., Amber Handy, Sallie Hood, Sharon Hu, Jean Ann Linney, Mary Ann McDowell, Kevin Misiewicz, Salma Saddawi, Carol Tanner

Members Absent: Elizabeth Clifton, Mackay Jennifer Gunn, Jessica Kayongo, Jackie Smith

Permanent Invited Guests: Jill Bodensteiner, associate vice president and counsel; Jannifer Crittendon, director, Office of Institutional Equity; Catherine Pieronek, director, academic affairs and director, women's programs, College of Engineering; Heather Rakoczy, director, Gender Relations Center

The Rev. Patrick Gaffney, CSC, chair of the University Committee on Women Faculty and Students, called the meeting to order at 3:05 p.m.

1. Minutes of the meeting of January 26, 2007: The minutes of the meeting of January 26, 2007, were approved with one minor correction as to the spelling of a member's surname.

2. Subcommittee updates:

(a) **UCWFS as an oversight committee:** deferred until another meeting

(b) **Retention of women faculty members:** At the January 2007 meeting, five members agreed to form a working group to create "talking points" related to retention of women faculty members, with the goal of specifying what the UCWFS can do in this area and how it can act as a catalyst for an action plan. The members of the group—Prof. Barrett, Ms. Bodensteiner, Ms. Crittendon, Prof. McDowell, and Ms. Pieronek—met and created a list of seven factors related to retention, then listed action now being taken on each factor as well as proposed actions. At today's meeting, Committee members took up each factor in turn:

Retention Factor 1: Work Environment (Department, College, University)

Ms. Crittendon said that her office is very near completion of a mechanism for on-line exit interviews. It will help with data on climate/environment and the impact they have on retention.

Profs. Barrett and Linney spoke about the University's participation in an extensive survey by The Collaborative on Academic Careers in Higher Education (COACHE), based at Harvard's Graduate School of Education. [See <http://gseacademic.harvard.edu/~coache/>] It is a three-year study that assesses the satisfaction of junior faculty (145 at Notre Dame) with a number of factors—for example, climate, transparency and fairness of the tenure process, compensation, collegiality, work/family balance—and then compares each participating institution to peers, five of which are chosen for an in-depth comparison. Prof. Linney said that 70% of Notre Dame's junior faculty participated in last fall's survey; she will receive preliminary results in April and the in-depth comparisons in August. In addition, a member of the Collaborative will visit Notre Dame to address concerns and consult on possible action items. A second survey will be administered in two years (2008) so that the University can have an opportunity to institute changes and determine how a new cohort of faculty rates their effectiveness.

Prof. Linney also reported that the staff survey undertaken in the fall of this year revealed a high level of satisfaction with the University's climate on the part of upper-level women administrators. She indicated that a preliminary summary reported no gender differences on the factors measured.

Retention Factor 2: Compensation

Fr. Gaffney said he will request that the periodic salary equity study be conducted by the Provost's Office. Provision for such an analysis was passed by the Academic Council; however, the

UCWFS has not received such a report during the last two years.

Ms. Bodensteiner said that as part of her training sessions with deans and chairs, she will discuss how to avoid inequities at the hire stage and the occasions on which faculty approach the administration with outside offers.

Retention Factor 3: South Bend Community

Many members noted that there are several ongoing initiatives at the University that should make the South Bend community more attractive to current and prospective women faculty members. They are: plans for a research park, spousal hiring plans (discussed below and at the UCWFS meeting of January 26, 2007), work/life programs (see below), the Notre Dame Avenue housing program, and the Eddy Street Development ("CollegeTown," etc.)

As for proposed action items, the subcommittee suggested better marketing of the items now in progress. They proposed inviting Hilary Crnkovich, vice president for public affairs and communication, to a future meeting to brainstorm about effective ways of reaching current and potential women faculty members.

Retention Factor 4: Spousal Hiring

At the last meeting, Prof. Linney made an extensive presentation on the Provost's Office new spousal hiring initiative. See *Notre Dame Report*, Vol. 36, no. 7, pp. 325–6. At today's meeting, Prof. Linney said that she is pleased that the spousal hiring coordinator has been hired and will begin in May. That individual has worked in the South Bend community for many years, making her very familiar with

the local hiring landscape. She is already making contacts and attending meetings. Prof. Linney also said that it not has not yet been decided if the coordinator will work with spouses of existing faculty and administrators and well as with new faculty/administrators.

Retention Factor 5: Work Life

Ms. Bodensteiner spoke on this topic—emphasizing that an enormous hurdle is educating/convincing faculty that the Human Resources Work Life group is the main conduit for information/services related to work-life issues for faculty as well as staff. [The mission of the Work/Life Group is to promote “a healthy university community for faculty, administrators, and staff through campus and community partnerships by: encouraging healthy lifestyles; supporting a positive work environment; providing resources for assistance; promoting balance with home and work responsibilities.” See <http://hr.nd.edu/worklife/>. Thus, it operates services related to locating childcare, eldercare, mental health, etc.]

Members asked Ms. Bodensteiner to invite Robert McQuade, associate vice president for human resources, to the next UCWFS meeting to address faculty needs and, perhaps, the assignment of an HR specialist to faculty for work-life issues. The group listed an action item as integrating the services of the Work/Life office into faculty recruiting.

Retention Factor 6: Perception

Members of the working group said that it is their belief that there are much more positives for women at Notre Dame than many, both within and outside of the Notre Dame, perceive. There is a critical need to change certain perceptions and to highlight various initiatives and achievements on the part of women faculty, staff, and students.

As for action items, the group proposed inviting Ms. Crnkovich (See Factor 3) to a future meeting to brainstorm about ways to highlight the positive and to “organize” the “good things.” Members proposed that there be more and better public information concerning:

- Gender Relations Center
- UCWFS
- Gender Studies Program

- Provost Distinguished Women Lecture Series
- Leave policies
- Training provided for prevention of sexual harassment
- Endowed Chair appointments
- Achievements of women faculty
- Women’s Resource Center
- Sexual Assault Training
- Top 5 athletic departments for women student-athletes

Ms. Pieronek reported that in Engineering, women students report a higher level of satisfaction than do their male counterparts

Prof. McDowell, also a member of WATCH, offered that one way to change perceptions is to communicate, in a grass-roots way, positive “stories” on women. If members of the Committee or the Notre Dame community in general send her items [mcdowell.11], she will post them to the WATCH listserv.

Also on the topic of publicity of women’s achievements at Notre Dame and the climate for women, Prof. Linney reported that former UCWFS member Liz Dube has continued to work with the Notre Dame Web Group on the Committee’s Web site. She is hopeful that the site will be operational some time this summer.

Retention Factor 7: Transparency of Promotion/Tenure Process

In the category of ongoing initiatives related to the transparency of the promotion/tenure process, Prof. Linney said that beginning this year, all untenured faculty members will receive written annual feedback on their performance in regard to the criteria for tenure (although such letters will not go into tenure/promotion files). The purpose is to provide specific guidance and constructive feedback. Prof. Linney emphasized that the reviews are discipline-specific, and that the goal of the Provost’s Office is to have written standards for each discipline that are reviewed and updated periodically.

The proposed action item listed: training for chairs in how to conduct performance reviews.

3. New Business:

Fr. Gaffney suggested that the new student body president and vice president, Elizabeth Brown and Maris Braun, be invited to a future UCWFS meeting. They are the first dual-women Student Government team in the history of the University.

Prof. McDowell reported that she had received a letter from Mr. McQuade denying the Committee’s request of last year that the University provide coverage or, at least reimbursement by flex-spending accounts, for expenses related to contraception of employees/spouses. [Currently, the University allows coverage of contraceptives only upon receipt of a note from a physician stating that the contraceptive is “medically necessary.” See *Notre Dame Report*, vol. 35, No. 15, p. 425]

Prof. McDowell said that she will continue to request coverage by Human Resources. Birth control expenses are an allowable health benefit by the Internal Revenue Service. And, members of the University community belong to many faith traditions, many of which do not prohibit the use of artificial contraception. Furthermore, the funds at stake for flex benefits are faculty and staff salaries, not University money.

There being no further business, Fr. Gaffney adjourned the meeting at 4:10 p.m.

University Committee on Libraries (UCL)

Minutes of the Meeting of March 8, 2007

7:00 a.m. Café DeGrasta—Grace Hall

Present: John Weber (Chair), Heidi Ardizzone, Parker Ladwig, David Leighton, Brian Pitts (graduate student), John Robinson, David Smith, Laurence Taylor, Gordon Wishon (ex officio), Jennifer Younger (ex officio). **Absent,** but excused: Charles Barber, Susan Blum (on leave), Edmund Edmonds, Semion Lyandres, Andrew Sommese. **Absent:** Ashlee Wright.

Observers / Guests: Nigel Butterwick; Kitty Cooney Hoyer (recorder)

The March 8, 2007 UCL meeting was called to order by John Weber, Chair, at 7:30 a.m.

1. Welcome and Agenda Review—John Weber

Weber welcomed the committee members to the meeting and briefly reviewed the meeting agenda, concluding by indicating that the next UCL meeting will take place Friday, April 13, 2007, at 7:30 am at Café DeGrasta.

2. Approval of minutes of the February 16, 2007 UCL meeting

Brian Pitts motioned to approve the February 16, 2007 UCL meeting minutes (with minor corrections as noted). The motion was seconded by John Robinson and passed unanimously. The Chair thanked Parker Ladwig for serving as acting recorder at the February meeting.

3. UCL Chair's Report—John Weber

Weber provided an update on the Foik Award committee. John Stamper, Architecture, has agreed to serve as chair of the committee. He will be joined by Alexandra Corning, Psychology; John Weber, Marketing; and Brian Pitts, Graduate student—Philosophy. Foik Award recipients for the past three years are also asked to serve on the committee. This year, that group will include Doug Archer, 2004 recipient; Eric Morgan, 2005 recipient; and Carole Pilkington, 2006 recipient. Nominations are by March 9, 2007.

4. Director's Report—Jennifer Younger Recruiting

Jennifer Younger, Library Director, indicated that she is very pleased with recruiting efforts currently taking place within the library. The library has been actively recruiting for two positions. One is a position in the Reference Dept. for a First Year Studies/Reference Librarian and the second for a Music/FTT Librarian in the Arts, Architecture and Media Department. She anticipates an announcement regarding one of the positions in the near future.

Budget for FY07/08

Younger briefly reviewed the library budget for FY07/08 noting a more thorough discussion is planned for the April UCL meeting, when additional information will be available. Younger noted that 40% of the library's acquisition budget is funded by the University endowment. The endowment payout earnings distributed to University

departments increased 10% over last year's payout, which is good news for the library. With some adjustments, Younger believes the budget is workable for FY07/08. Dave Smith suggested a narrative or summary be included with the full budget report.

Older Volumes of Journals

Several UCL members expressed concern regarding the availability of electronic access to older volumes of key journals. A discussion on the relative costs and benefits associated with maintaining electronic and print back files followed. Noting that there will be some trade-offs, Younger described some of the ongoing cooperative measures of colleges and universities for the preservation of older print volumes and noted that these present an opportunity to alleviate space constraints, too. She also suggested that online access to older volumes is becoming a more reliable option through cooperative digital preservation projects such as LOCKSS (Lots Of Copies Keeps Stuff Safe) and Portico, which is funded in part by the Mellon Foundation. While, in conjunction with more digital access, cooperative agreements for off-site storage of print volumes, will free up much needed space in the future, Younger anticipates that space constraints will continue to be a significant issue for the library. She projects a steady growth in the collection due to preserving older volumes of selected print journals at ND as well as to the continuing acquisition of print journals and books. She indicated that desires for print preservation, for timely and reliable online access, and for secure digital archives are all relevant issues in considering demands for older volumes of print journals and their related library space constraints.

Proposal to Eliminate Rank of Staff Librarian

Younger reported on a recent proposal to eliminate the rank of "staff librarian" and instead implement a more predictable model that progresses from "assistant" to "associate" to "full" librarian. Younger will discuss the proposal at length at a future UCL meeting.

Other

Younger reported that the university is taking a keen interest in the copyright issue discussed during recent UCL meetings.

Several members of the administration, including the Tom Burish (Provost), Don Pope-Davis (Dean, Graduate School), and Mike Edwards (Office of the Vice President for Research), have been discussing new legislation governing the copyright issue. Younger will report back to the committee on any developments.

5. Library Cooperative Activities (continuing discussion)

At the February '07 UCL meeting, the consideration of library cooperative agreements included distribution and discussion of a matrix summarizing a variety of cooperative agreements in which the Notre Dame Library currently participates. While referring to the matrix summary, Younger explained that the growth in the number of cooperative programs reflects the significant budget constraints facing nearly all university libraries, at a time when of continued proliferation of library materials and rapidly escalating of library materials costs. As noted by the UCL previously, reflecting such constraints, the library is not committed to acquiring everything available. Younger observed that cooperative with other libraries can offer an opportunity to make more cost effective use of limited financial resources as well as the expertise of library faculty and staff.

Weber echoed those thoughts and called the matrix a good starting point for helping to sort through the costs and benefits of actual and prospective participation in individual coops. Given the significant potential for helping to stretch library resources in an environment of growing resource constraints, Weber suggested that the thorough evaluation of alternative cooperative agreements does indeed make sense. He went on to suggest that the UCL should encourage regular, systematic analysis of cooperative agreements by the library. As a first step, he suggested that perhaps a small group might be formed within the library to discuss and identify different types of cooperative activities and to then identify what information should be gathered to help assess each activity. To help jumpstart this process Weber has already developed an expansive list of potential evaluative criteria for consideration. An important goal of the overall analysis would be to try to assess the net benefits and costs of actual or prospective participation in

alternative coop agreements—for example assessing the prospective impact on materials, manpower, space and budget resources. Weber sees such assessment as an ongoing challenge and one that he feels should get prominent mention in the forthcoming UCL Annual Report for 2006–07.

Ladwig agreed that the information would be good to have, but questioned the necessity for such in-depth analysis. A discussion of the potential benefits followed. Weber argued that with greater and greater outside forces—cost pressures and continuing leverage by the organization—forming a type of “buying trust” could be very beneficial. Younger added that “understanding the give and take dynamics is essential to determine if we are getting what we bargained for. Butterwick likened it to the recent Rapid ILL assessment arguing “knowing so much is very helpful and it gives a different perspective.”

Noting the broad scope of the issue, Smith suggested starting with some sort of threshold (size and/or cost?) in order to focus attention on cooperative agreements with the most important potential member benefits. Weber agreed and suggested the UCL keep faculty apprised of the library’s efforts to be more proactive in their acquisitions.

Younger asked Butterwick and Wishon to briefly update the committee on plans to move the computer cluster from the second floor to the first floor of the library. The move is part of an on-going effort to bring OIT and the library closer together to better assist the needs of students and faculty. Wishon described it as being part of a larger plan to substantially improve the computer services and space available to students and faculty. He agreed to share a summary of the plan with the committee at a future UCL meeting.

6. UCL annual report for 2006/07

Weber is already working on the UCL annual report and he asked members to submit their suggestions for topics as soon as possible. The report will include a summary of the UCL committee initiatives as well as the implementation plan and proactive efforts to monitor those initiatives. Weber’s goal is to give the faculty confidence that the committee is not only working towards implementation, but also thoroughly analyzing and evaluation the

success of each initiative. The annual report will be completed by May 2007.

It was suggested that the task force report be included or attached as an addendum to the annual report and include a statement from the UCL encouraging the library to take action.

Adjourn

The meeting adjourned at 9 a.m.

The next meeting is scheduled for Friday, April 13, 2007 at 7:00 am, at Café DeGrasta.

Respectfully submitted,

Kitty Cooney Hoyer (recorder)

University Council for Academic Technologies (UCAT)

March 15, 2007—9:00am—10:30am

Notre Dame Room, LaFortune

MINUTES

Members Present: Gordon Wishon (Chair), Craig Brummell, Pascal Calarco, Dan Marmion, Robert Easley, Alex Hahn, Mike Hildreth, Oleg Kim, Dan Marmion, Bill McDonald, Peggy Rowland, John Sherman, Bob Stevenson

Members Absent: Alan DeFrees, Ed Edmonds, Michael Kirsch

Members Excused: Mariana Montes, Harold Pace, Mark Schurr, Mihir Sen, Olaf Wiest

Guests Present: Brian Burchett, Chuck Hurley, Terri Hall, Terri Bays

Call to Order: UCAT chair Gordon Wishon called the meeting to order at 9:04 am

1. Minutes from the previous meeting

Minutes from the February 8, 2007 meeting were approved by the members unanimously.

2. Subcommittee Reports

The Course Management System

Subcommittee chair, Rob Easley reported that the committee has the start of a framework to be used for courseware product evaluations. The committee’s objective is to eliminate products that lack integration

with Banner. Alternate courseware products will be evaluated at the committee’s next meeting. Due to the lack of a tool to migrate courseware data to next version of WebCT, the OIT will hire students over the summer for data entry of course histories to preserve the historical information.

Courseware branding to identify courseware will be generic in nature and independent of a specific product, added Rob.

Associate Provost Gordon Wishon commented that the OIT is currently collecting utilization statistics and identifying the product features used by faculty. Options under consideration include purchasing a single, monolithic system, or a suite of tools as in a “best of breed” offering. The current WebCT courseware system will be maintained for a minimum of two years.

The Software Subcommittee

Peggy Rowland, OIT, reported for the subcommittee in Olaf Wiest’s absence. To enable the new software request process, the Registrar’s “Preference Room Request” form was modified to include a section for software requests. The OIT will then collate all of the requests into a software image that will be used to distribute software via the OIT Clusters/Classrooms desktop image.

Faculty were asked to submit requests for classrooms and software requests on one form. For reference, see the link below, noting the gold highlighted section on page 2.

<http://registrar.nd.edu/ICRmPref.pdf>

In addition, the list of core software to be included on the Fall 2007 image is also listed on this web site for reference.

http://oit.nd.edu/clusters_classrooms/software/

Room and software request forms were due in the Registrar’s Office by March 5, 2007. We have received around 30 faculty requests for applications to be placed on the Fall 2007 cluster/classroom image.

Center for Research Computing

Gordon Wishon reported in Dewitt Latimer’s absence (report submitted by Dewitt below).

1) CRC usage data is being cross correlated with research expenditure data (and pending grant data) to ensure that CRC resources and services are aligned with research priorities. This is an ongoing analysis

and we are seeking more information from the Office of Research to better help CRC to understand the dynamics.

2) CRC Metrics of Success are currently being reviewed by the Deans of Science, Engineering, and A&L for final approval.

3) Usage data shows a marked increase in usage as researchers and graduate students participating in CRC training classes are beginning to use the facilities to greater extents.

4) CRC is working with a number of high-profile researchers to help more their science from local resources to CRC resources (to allow solving larger, more complex problems in many cases).

5) ND joined the I-Light State optical network, and in doing so, has increased its research bandwidth from 100 Mb to 800 Mb (commodity increased from 160 to 200 Mb).

6) CRC training courses are in full swing (see <http://crc.nd.edu/information/training.shtml>)

7) CRC is working with other NWICG partners to provide joint training opportunities between campuses leveraging the AccessGrid Node

8) CRC is working with other NWICG schools in an effort to bring in colloquia speakers from across member schools (via AG node).

3. Student Topics

Printing

Brian Burchett distributed a report detailing printing data by Cluster/Residence Halls. There has been a steady increase in Residence Hall printing with a corresponding decrease in cluster printing. The OIT is working with Xerox on cost information and options for adding additional printers to our existing agreement in the Resident Halls.

To illustrate student printing trends, in Fall 2005, 169,817 pages were printed from the 10 ResHall printers. In Fall 2006, 534,915 pages were printed.

eRA (Electronic Research Administration, InfoEd)

Ms. Terri Hall, Office of Research, reported on this project between the OIT and the

Office of Research. Terri provided a hand-out of sample web pages that will be accessible through InsideND/Research Channel. InfoEd is the application that will be used to process all University proposals and rewards, including Federal and non-Federal grants. Electronic proposal submission will be via www.grants.gov. Faculty can work on their submissions from their home, office, or on the road. The current application, FastLane will be phased out.

The eRA system will integrate with other administrative systems including Procurement, Advance, Banner's Human Resources/Payroll, and Finance Systems. All routing is electronic to expedite the process and eliminate the need for signatures. There is a team assigned to each faculty group to help with services.

Faculty submitting proposals in June-July are likely to obtain access and training for the system first.

4. OCW (Open Courseware Pilot Project)

Ms. Terri Bays, Kaneb Center, provided a presentation on the Open Courseware initiative. Open Courseware is a free and open educational resource, containing a collection of high-quality course materials. Faculty can use the material to create other creative common material, but are asked to reference the source. The intent is to share and share alike, but if material is edited or changed, the new content should also be shared.

It is not meant to be a tool for distance learning, or a way of obtaining a degree.

Currently there are 120 affiliated organizations participating in the OCW Consortium. To be a member, 10 courses must be published. As of January 2006, Notre Dame has eight published courses, with 11 more on the way.

In January, after CBS covered the story, the web site had 187,000 hits in one month.

5. Pilot Projects

Prof. Alex Hahn, Kaneb Center Director, discussed projects that are considered "pilots" that are joint efforts of the Kaneb Center and the OIT. The concern is that the exploration phase is missing—the stage between a pilot trial and full-stage application. Gordon Wishon commented that the OIT has a project management process,

which provides a framework in which pilot projects are launched, funded, and then supported. The process by which a pilot becomes a service needs to be communicated, defined and articulated with other groups on campus. In addition, Gordon added that the OIT will provide UCAT with a snapshot of all academic projects at the next meeting.

6. Guest ID's

Pascal Calarco, University Libraries, asked for information on the creation of guest ID's for conferences and general cluster use. Gordon responded by saying that Guest IDs can be requested by calling the OIT Help Desk at 631-8111. The requestor must be willing to sponsor the group that requires the guest IDs. The guest IDs will have an expiration date immediately following the event. Pascal added that all guests wanting to use Library resources need to have a Guest ID.

8. Call for future agenda topics

Gordon Wishon requested suggestions for future agenda topics.

Adjournment: Gordon Wishon adjourned the meeting at 10:38 am.

Next Meeting:

Monday April 09, 2007, 2:00 pm—3:30 pm

FBA Meeting Minutes

March 19, 2007

311 Coleman Morse Bldg.

Members present: Prof. Donald Pope-Davis (Chair); Prof. Harvey Bender; Prof. Eileen Hunt Botting; Prof. Stephen Fallon; Mr. Patrick Holmes; Prof. David Kirkner; Ms. Kathryn Lam (Student Rep.); Prof. Richard Pierce; (Rev.) Mark Poorman, CSC; Prof. Vince Rougeau; Prof. John Weber; and Dr. Kevin White

Members absent: Prof. Francis Castellino, Prof. Daniel Lapsley; Dr. Frances Shavers

Board Liaisons Present: Mr. Stan Wilcox of the Department of Athletics

Board Liaisons Absent: Ms. Missy Conboy, Mr. Michael Karwoski

Observers and Guests: Ms. Mary Hendriksen, executive assistant to Prof. Pope-Davis; Ms. Kitty Cooney Hoye, recorder.

1. **Call to Order and prayer:** The Chair called the meeting to order at 5:05 p.m. Ms. Kathryn Lam offered the opening prayer.

2. **Minutes of previous meeting:** After making one correction to the minutes of the meeting of February 27, 2007, Fr. Poorman moved for their approval; Prof. Pierce seconded the motion, which passed unanimously.

3. **Subcommittee on Academic Integrity: Review of credit-hour requirement for unclassified graduate students—Harvey Bender**

The subcommittee is recommending that the FBA approve a modification of the academic credit requirements for the fifth-year student-athletes who are enrolled in a graduate program or those considered “unclassified” graduate students. Prof. Bender referred the board to a handout distributed during last month’s meeting—“5th-Year Student-Athlete Graduate School Credit Hour Requirement” for his discussion.

Prof. Bender briefly summarized the history regarding the 5th year of eligibility—particularly as it relates to the student-athlete classification and credit hours. Typically, 18-20 students each year will petition the board seeking to continue as a 5th-year student-athlete. These student-athletes fall under one of the following categories: undergraduate completing degree; degree-seeking graduate student; or unclassified graduate student. A majority of the student-athletes petitioning for a fifth year fall into the “unclassified graduate student” category and are required to complete at least nine credit hours each semester. Although there have been “no major problems” with this group, the subcommittee is recommending the following change to the credit requirements:

5. ...Fifth-year students who are enrolled in a graduate program or who are unclassified graduate students must complete at least nine credit hours per semester, three of which must be at the 4000 level.

The change, argued Prof. Bender, will “put us in harmony with the Graduate School” and thereby facilitate advising and the ability of student-athletes to gain access to desired courses. The proposed changes would go into effect during the 2007–08 academic year.

In response to a question from Fr. Poorman regarding directed readings, Prof. Bender said that the change will force student-athletes to register for something “other than directed readings.” He also noted that after speaking with Mr. Holmes, and members of the registrar’s staff, the subcommittee found that “timing” has been the cause of many fifth-year student-athletes failing to gain access to their desired courses. Prof. Kirkner questioned the basis for requiring full board approval of student-athletes’ schedules. Both Prof. Bender and Fr. Poorman responded that the requirement stemmed from a desire by the board to assure that student-athletes were “academically engaged” during their fifth year.

A discussion regarding possible streamlining of the application process followed. Currently, student-athletes seeking a fifth year must submit a detailed application that includes recommendations from the coaching staff as well as a course plan for the year. In addition, each applicant is interviewed by Prof. Don Pope-Davis. While various board members commended the subcommittee on this thorough review of each application, Fr. Poorman suggested that to streamline the progress, the subcommittee could be given authority to vet and approve applications—bringing only those with special circumstances to the full board for discussion. In the past, Prof. Bender noted, FBA members wanted an opportunity to discuss the matter. He agreed, however, that doing so was “not a good trade-off” and supported Fr. Poorman’s suggestion that the subcommittee could take responsibility for approving any routine applications and bring only those that are “questionable” or otherwise involve “special circumstances” to the attention of the full board. Both Prof. Fallon and Prof. Botting stated they benefited from the full board discussion. Prof. Bender invited interested members of the full board to join the subcommittee during their discernment meetings. He agreed to notify the full board of any future relevant subcommittee meetings.

Noting that timing was a significant issue in the past, the board recommended that the subcommittee complete their review of petitions for a fifth year of eligibility and provide the Registrar’s Office with a list of approved student-athletes by April 14, 2007. Prof. Don Pope-Davis agreed to write

a letter to the Registrar on behalf of the FBA clarifying the new process.

MOTION: Fr. Poorman made a motion authorizing the subcommittee on Academic Affairs to approve routine applications for a fifth year of eligibility, with the proviso that all Board members will be notified of subcommittee meetings so that they are able to give their input on the applications. The motion passed unanimously.

MOTION: Prof. Bender, as chair of the subcommittee on Academic Affairs, motioned to approve the subcommittee recommendation amending the requirements for 5th year student-athletes enrolled as either degree-seeking or unclassified graduate students to read:

5. ...Fifth-year students who are enrolled in a graduate program or who are unclassified graduate students must complete at least nine credit hours per semester, three of which must be at the 4000 level.

It passed unanimously.

4. **Subcommittee on Student Welfare—Eileen Hunt Botting**

The Board continued to discuss the off-campus housing policy for student-athletes.

5. **Subcommittee on Communications—Steve Fallon**

The subcommittee on communications has been addressing the ongoing issue regarding afternoon class schedules and practice schedules. A number of concerns have been raised regarding conflicting messages student-athletes receive about when they must be finished with classes. The subcommittee met with Dr. Chris Maziar, vice president and associate provost, to discuss the matter. Dr. Maziar has agreed to co-write a letter with Kevin White to coaches and undergraduate advisors clarifying the policy requiring class attendance and making accommodations for practice schedules. Prof. Fallon noted that Dr. Maziar is continuing to identify ways to make the day more “useable” with respect to upper-division courses.

The subcommittee continues to gather information on fifth-year eligibility requirements at other institutions. Preliminary information indicates a considerable range between notifications of eligibility for a fifth

year. Prof. Fallon will keep the board apprised as additional information becomes available.

6. *Ex officio* and Liaison reports—None

Fr. Mark Poorman: Student Affairs

Pat Holmes: Academic Services for Student-Athletes

Frances Shavers: Office of the President

Kevin White / Missy Conboy / Mike Karwoski / Stan Wilcox: Athletic Department

7-8. New / Old Business

Prof. Bender, on behalf of the subcommittee on student welfare, asked that coaches be reminded of the nominating process for the Kanaley Award. It is important, added Prof. Weber, that the coaches understand the qualifications for the award. Noting that it is particularly important for new coaches to understand the criteria, Prof. Pope-Davis suggested including a reminder at the coaches meeting.

Adjourn

There being no further business, Prof. Pope-Davis adjourned the meeting at 5:05 p.m.

University Committee on Women Faculty and Students

University of Notre Dame

Meeting of March 23, 2007

Members Present: Fr. Patrick Gaffney, CSC (chair), Leilani Arthurs, Amy Barrett, Elizabeth Clifton, Sr. Susan Dunn, O.P., Amber Handy, Sallie Hood, Sharon Hu, Jean Ann Linney, Mary Ann McDowell, Kevin Misiewicz, Salma Saddawi, Carol Tanner

Members Absent: Mackay Jennifer Gunn, Jessica Kayongo, Jackie Smith

Guest: Mary Warner, Manager, Work Life, Department Of Human Resources

Permanent Invited Guests: Catherine Pieronek, director, academic affairs and director, women's programs, College of Engineering; Heather Rakoczy, director, Gender Relations Center, Jannifer Crittend, director, Office of Institutional

Equity

The Rev. Patrick Gaffney, CSC, chair of the University Committee on Women Faculty and Students, called the meeting to order at 2:05 p.m.

1. **Minutes of the meeting of December 8, 2006:** The minutes of the meeting of February 27, 2007, were approved without correction.

2. **Presentation on Work/Life:** Mary Warner, manager of Work Life in the department of human resources, first explained the mission of her office: to promote a healthy university community for faculty, administrators, and staff through campus and community partnerships by encouraging healthy lifestyles; supporting a positive work environment; providing resources for assistance; and promoting balance with home and work responsibilities.

She then showed members how to access the Work Life Web site: <http://hr.nd.edu/worklife/>. Members of the University community can use the site to find childcare, eldercare, and answers to questions regarding health and wellness. [After clicking on the topic of interest, type in user name: notredame; password: gond]

Members discussed how best to inform Notre Dame faculty of the site and its many uses. Many faculty members mistakenly believe that the HR site is solely for staff.

Ms. Warner explained that the office tries to communicate by e-mail, hard copy, and the internet to reach all segments of various campus constituencies.

Prof. McDowell suggested training department staff to alert faculty to the site.

She also said that it would be beneficial for recruiting/retention to have new or potential faculty members meet with a real, live HR person to explain various resources on campus and in the community.

Prof. Linney said that currently, faculty to whom offers have been extended are given the site's log-in information.

3. **Resources for married undergraduates:** Ms. Clifton began a discussion of resources on campus for married undergraduates, both those who have children and those who do not. The general answer was that different components of Student Affairs are best able to serve members of this group.

For example, John and Sylvia Dillon in campus ministry would be helpful for some questions; Jeff Shoup, director of housing in Residence Life is another resource. Ms. Rakoczy suggested that students begin with their rectors, who will then direct them to the right people or offices in Student Affairs.

3. New business:

(a) **Early Childhood Development Center:** In response to a question from Prof. Misiewicz, Prof. Linney discussed the review of the Early Childhood Development Center (ECDC) now occurring. The report will be delivered to John Affleck-Graves, executive vice president. She noted that while there is definitely faculty interest in expanding ECDC to accommodate infants, it is still being determined by a survey if staff, too, are interested in an expansion of ECDC services to infant care. Prof. Linney said that the most recent survey showed that 90% of faculty said they would pay "whatever it costs" to have infant care at ECDC. As reported at previous meetings, the cost of infant care is much higher than care of pre-school children.

Prof. McDowell said that much infant care exists in very close proximity to campus—and at a significantly lower cost than can be offered by ECDC.

(b) **Future speakers and topics:** Fr. Gaffney noted that at the January meeting, members of the subcommittee on retention recommended asking Hilary Crnkovich, vice president of public affairs and communication, to speak on the topic of how women are portrayed on Notre Dame publications and the Web site, and how their achievements can best be communicated. Other possible guests for the Committee are the new president and vice president of Student Government.

(c) **Election of a new UCWFS chair:** Fr. Gaffney also noted that at the last meeting of the year, April 24, members must elect a new chair of the committee. [The chair must be a tenured faculty member.]

There being no further business, Fr. Gaffney adjourned the meeting at 3:00 p.m.

University Council for Academic Technologies (UCAT)

April 9, 2007—2:00 pm—3:30 pm

Notre Dame Room, LaFortune

MINUTES

Members Present: Craig Brummell, Pascal Calarco, Dewitt Latimer, Dan Marmion, Robert Easley, Mike Hildreth, Oleg Kim, Dan Marmion, Bill McDonald, Peggy Rowland, Mark, Schurr, Mihir Sen, John Sherman

Members Absent: Gordon Wishon, Alan DeFrees, Michael Kirsch, Bob Stevenson

Members Excused: Ed Edmonds, Alex Hahn, Mariana Montes, Harold Pace, Olaf Wiest, Gordon Wishon

Guests Present: Mike Chapple, Molly Gordon, Terri Hall, Mark McGill

Call to Order: Sitting in for Gordon Wishon, who was unable to attend due to another schedule conflict, Craig Brummell, Deputy CIO, called the meeting to order at 2:05 pm.

1. Minutes from the previous meeting

Minutes from the March 15, 2007 meeting were delayed in distribution, and will be distributed with the minutes from today's, April 9, 2007 meeting.

2. Subcommittee Reports

The Course Management System

Subcommittee chair, Prof. Rob Easley reported that the committee has scheduled a meeting with Dennis Jacobs and Gordon Wishon at the end of the month. He reminded UCAT of the Subcommittee's recommendation that other course management systems should be evaluated over the next year. The meeting with Dr. Jacobs and Mr. Wishon will discuss the goals and objectives related to evaluating future course management strategies and tools. Also being discussed will be the process and framework to be used as part of the evaluation process.

Prof. Easley also reported that voting is complete for the choice of courseware branding. The preferred logo is very generic and not tied to any particular courseware

product. The name receiving the most votes was "Concourse".

Prof. Easley added that Gordon Wishon had a conversation with Peter Segall, Blackboard's President of North America's Higher Education and Operations. Mr. Wishon expressed dissatisfaction with a number of items including product quality, support responsiveness, completeness of documentation, and most importantly, faculty satisfaction. He informed him that Notre Dame will be starting a re-evaluation of the teaching and learning infrastructure and the related course management tools.

Mr. Segall has asked to be included in the evaluation process.

Software Committee

Peggy Rowland, OIT, reported that the Registrar Office has forwarded the classroom request forms to the Academic Technologies staff. The traditional classroom request form was modified to include faculty requests for software in the clusters and classrooms. Approximately 30 unique applications were requested for Fall 2007–08. No requests were received for additional software acquisitions.

Center for Research Computing

Dewitt Latimer, Assistant Provost, and Acting Director of the CRC, reported that the faculty committee on research computing meets twice a month. They are currently considering the requirements by which the success of the Center will be measured at three and five year periods. The information will be sent to the deans for their review. The document lists success metrics divided into three categories; (1) Operational Excellence (2) Enhancing Notre Dame's Research Reputation and (3) Funding and Sustaining Center Operations.

A complete view of the matrix that was developed by the faculty committee can be found at the link below.

<https://www3.nd.edu/~csrcs/performance/metrics.pdf>

Dr. Latimer added that the committee's last two meetings have been focused primarily on resource items (e.g. support staff, machine times, disk storage) and attempting to determine what course of action will be taken when resources become constrained.

Dr. Latimer also reported that a candidate for the Director position was interviewed last week, and another will be interviewed this week. He added that the CRC resource decisions are no different than what face other departments.

3. Electronic Research Project Update

Terri Hall, Office of Research, distributed a handout outlining the current efforts on the project. Ms. Hall mentioned that discussions are underway with Huron Consultant Group to perform an assessment of current university business processes in the areas of Time & Effort Reporting (T&E) and Conflict of Interest (COI) and suggest any considerations or changes to these processes. The effort being proposed would take approximately two weeks, starting the week before graduation. This effort is expected to provide the Office of Research to make adjustments before implementing the T&E and COI modules.

The project team is suggesting that Faculty submitting proposals in late June or early July could be the first ones to use the new electronic research application, InfoEd. More communications will follow.

Ms. Hall and others from the Office of Research, together with Ann Strasser, Research and Sponsored Programs, will be meeting with the Business Advisory Team on Friday, April 13 to discuss the methods they use in working with the PI's on grants. The goal is to use this information in decisions on the post-award module implementation and whether to pursue loading financial transactions from Banner into InfoEd.

A web form to submit questions has been created and is monitored by Ms. Hall. The web site is at:

http://www.nd.edu/~research/proposal/e_sub.htm

Online training options will include:

- Workshops similar to FastLane and Grants.gov
- Tutorial
- One page instruction sheets
- A page of frequently asked questions
- Phone calls/emails

4. OIT Cluster Machine Configurations

Mark McGill, OIT, reported that the cluster and classroom hardware will be upgraded to the IBM ThinkCentre M55 Tower. They will be configured with:

- Windows XP Professional
- 2 GB of memory
- ATI Radeon X1600 video adapter (VGA)
- 250 GB hard drives
- 17" and 22" Lenovo Flat Panel monitors, divided between podia and floor machines

The cluster/classrooms will be Vista compatible.

5. Information Security Policy and Handling Standards

Mike Chapple and Molly Gordon, both from OIT, distributed a draft document on Information Security Policy and Handling Standards for University information.

Mr. Chapple also provided an update on the three and a half year Information Security Program. Each department will have a local point of contact that will serve in a liaison capacity between the OIT and the department. The program will also focus on staff awareness over the summer and turn its attention to faculty in the Fall. Future efforts on student awareness will begin in the 2008 academic year.

Mr. Chapple discussed the Credit Card Support Program that will reduce our credit card footprint on campus and centralize the processing of credit cards. This is a joint effort between the OIT, Business Operations, and the Finance Division.

Another leg of the Security Program involves enhancing the controls used for servers in and outside of the OIT's Data Center.

Mr. Chapple reported that the OIT and Xerox Corporation have jointly remediated risks posed by Xerox multifunction copiers on campus. This project was completed in January 2007.

Also in progress is a workstation remediation project that ensures all campus workstations meet the minimum security standards. OIT's Distributed Support staff are working with departments that do not

have dedicated IT support staff, and are also training the dedicated IT support staff employed by departments on the remediation process.

The Information Security Policy is to protect Notre Dame's information resources from accidental or unintentional unauthorized access or damage while preserving the open information sharing requirements of its academic culture. The security policy outlines the requirements as established by the Data Stewards with the scope applying to faculty, staff, students, and all other granted use of University information or related assets and defines their responsibility for the protection and appropriate use of University information, applications, computer systems, and networks.

The Information Security Handling standards define the controls required for University information in any form. Each individual who creates, uses, processes, stores, transfers, administers, and/or destroys university information is responsible and accountable for complying with these standards.

Prof. Rob Easley asked if the policy will also cover service availability, business continuity, and service levels. Dr. Latimer responded that the Crisis Management Committee will be addressing these issues.

Prof. Easley also questioned the "Sensitive Number Finder" tool recently distributed and was concerned about the high probability of false positives, especially for identifying social security numbers. Credit Card data was easier to identify. Mr. Chapple responded that OIT reviewed the currently available commercial tools and found that existing products were not suitable for use in an academic environment. The current Sensitive Number Finder implements algorithms developed by OIT that appear to be more effective than commercial products on the market today. OIT will continue to evaluate the tool and improve its detection rate as new techniques become available.

Some common examples of files that contain forgotten sensitive data are older grade books, performance reviews, job applications, and budget files.

Prof. Bill McDonald asked if a primary designate could be appointed when an IT breach occurs. He added that the benefit

would be total ownership of the process through a "project management" structure that would keep the work flow, communications and momentum on target. He also asked about a process that could be used to ensure faculty log out after each class period using technology classrooms. Mr. Chapple agreed to investigate the options and report back to the committee.

Prof. McDonald also stated that older records in faculty homes or records from faculty that have left the University should also be included in the policy. He further advised that using practical examples when communicating with the faculty would be helpful.

Pascal Calarco, University Libraries, added that paper records on University information housed in offices and homes add to the complexity of securing the information. Guidelines on when and how documents should be retained or destroyed are needed. Mr. Chapple responded that Ms. Laura Detloff, University Archives, is taking this under consideration and is developing a holistic plan on preservation and destruction.

6. Support for Mac O/S

Deferred till next meeting.

7. Academic Project List

Mr. Craig Brummell, Deputy CIO, distributed a list of 27 current projects related to academics, four projects recently completed, and 17 future projects. Mr. Brummell added that he is in the process of refining the process that emerging technologies will use to ensure more timely testing and piloting. He is also working with his project management team on the categorization of OIT projects.

8. Next Meeting

Next meeting will take place on Wednesday, May 2, 2007, at 9:00am—10:30 am. Mr. Brummell asked the committee to consider the questions listed below in preparation for the next meeting, which is the last meeting of the academic year.

1. What one or two strategic items should UCAT focus on addressing this next year?
2. From an OIT perspective, what one or two things can the OIT improve on?

Adjournment: Mr. Brummell adjourned the meeting at 3:26 pm

Last Meeting of the semester:

Wednesday May 2, 2007

University Committee on Library (UCL)

Minutes of the Meeting of April 27, 2007

7:30 a.m. Café DeGrasta—Grace Hall

Present: John Weber (Chair), Heidi Ardizzone, Edmund Edmonds, Parker Ladwig, David Leighton, Laurence Taylor, Gordon Wishon (ex officio), Jennifer Younger (ex officio). Absent and excused: Charles Barber, Susan Blum (on leave), Semion Lyandres, Brian Pitts (graduate student), John Robinson, David Smith, Andrew Sommese, Ashlee Wright.

Observers / Guests: Nigel Butterwick; Kitty Cooney Hoye (recorder)

The April 27, 2007 UCL meeting was called to order by John Weber, Chair, at 7:30 a.m.

1. Welcome and agenda review

Weber welcomed the committee members to the meeting and informed all attending that the final UCL meeting of the 2006–07 academic year will take place May 11, 2007, at 7:30 am at Café DeGrasta.

2. Approval of Minutes of the March 8, 2007 UCL Meeting

Ed Edmonds motioned to approve the March 8, 2007 UCL meeting minutes. The motion was seconded by Larry Taylor and passed unanimously.

3. UCL Chair's Report—John Weber

Next UCL Chair & UCL Membership. Next month's meeting marks the last UCL meeting of the academic year, as well as the end of Weber's service as committee chair. He described his experiences as enlightening, informative and rewarding, and called for nominations for UCL Chair to take over for the 2007–08 academic year. Any interested in either nominating or serving as chair themselves are encouraged to contact Weber as soon as possible. Weber's announcement prompted a brief discussion regarding UCL membership election and terms of service. It seems that various methods are used within the different colleges to select UCL representatives.

4. Director's Report—Jennifer Younger

Changes in Academic Articles Affecting the UCL. Jennifer Younger asked Parker Ladwig to update the committee on minor changes being made to the academic articles with respect to UCL. The proposed new subsection (g) on the University Committee on Library would read as follows:

“The University Committee on Libraries reviews policies and practices relating to library resources and services and provides oversight of the development of the libraries. It constitutes a principal interface between the campus units responsible for providing information resources and services, and it also serves as a communications link between the libraries and the University community. The committee consists of the director of University Libraries, the director of the Law Library, the chief information officer or his or her designate (modified clause), and 13 others: one elected by and from the teaching and research faculty of the Law School, the Mendoza College of Business, the College of Engineering, the College of Science, the division of the humanities, and the division of social sciences of the College of Arts and Letters, and the School of Architecture together with the faculty in the division of the arts of the College of Arts and Letters; one elected by and from the faculty of the University Libraries; three elected at large by and from the teaching and research faculty of the University; and two student members. Student members are selected annually according to procedures approved by the committee. Elected members serve staggered three-year terms. The committee annually elects a chair from the elected members. It meets at least twice each semester, publishes its approved minutes, and reports annually to the Academic Council.”

In fall, 2007, the UCL will discuss what actions, if any, to take with regard to changes in the academic articles affecting the UCL.

Copyright Issue. Director Younger reported that recently the library directors (University Libraries and Kresge Law) have held discussions with university administrators regarding perspective that the

libraries can bring to campus consideration of the challenges of maintaining appropriate rights for individual authors and publishers while at the same time providing appropriate scholarly access to copyrighted material. Flowing from these discussions Younger and Ed Edmonds, Director of the Law Library, have been invited to propose library representation on the University Committee on Intellectual Property. More in depth UCL discussions will be held during 2007–08 regarding issues such as managing copyrights and publisher vs. individual author's rights. For example, faculty authors should be informed regarding copyright issues such as what rights one has to post one's own manuscripts on personal or institutional Web sites, rights to create derivative works, rights to distribute copies of one's own works in one's own courses, and rights to use of one's own work in one's own research and writing. For example, the SPARC (Scholarly Publishing and Academic Resources Coalition) developed a model contract addendum that authors of journal articles can append to publishers' copyright agreements to assert key rights, including the right to make and distribute copies in the course of one's own teaching and research.

Non-Disclosure Clauses. A 'non-disclosure' clause prevents the library (or a consortium) from disclosing the terms of a publisher's pricing/licensing agreement. Following through on the discussion of non-disclosure clauses in e-journal consolidator contracts, as initiated in the March 07 UCL meeting (by David Smith), Younger indicated that some vendors do and others do not have non-disclosure clauses. This is an important issue in Association for Research Library (ARL) discussions because it makes it more difficult to obtain comparable price data. "Sunshine" laws may prevent some public institutions from accepting non-disclosure terms. Younger will bring this issue to UCL for discussion and advice during the 2007–08 academic year.

Librarian in Residence Program. Younger summarized the Librarian in Residence program—a joint effort with the Law School. This program provides for positions for recent library graduates who can contribute effectively to the diversity of the

profession and the university while developing career interests in various aspects of academic librarianship <<http://www.library.nd.edu/diversity/residence.shtml>>. The two current participants have been offered permanent positions. Official announcement is pending acceptance.

Center for Research Libraries Activities.

Younger recently attended the Center for Research Librarians annual meeting in Chicago where Earl Lewis (Emory University) discussed his use of primary resource materials (some of which were borrowed from the Center) to co-author with UCL member Heidi Ardizzone—"Love on Trial: An American scandal in black and white." Kudos to Heidi.

RefWorks. The April 17, 2007 issue of *NDWorks* included an article on RefWorks—a new Web-based citation management program. Since going online in January 2007, 700 users have already registered with RefWorks. Younger described it as already a big success and credits OIT for their help in implementing the new program.

5. Recall Policy Update

Younger turned to Nigel Butterwick for an update on the new Library Recall Policy. Reflecting faculty and students complaints regarding excessive delays by some library patrons in returning recalled items, and after considerable analysis and deliberation, the library developed and implemented a new, more stringent Recall Policy in 2006 (see <http://www.Library.nd.edu/circulation/policy.shtml> for more details). The policy was heavily promoted, well received, and has since generated significantly more timely returns. Butterwick distributed a handout summarizing the results of the new policy. Summarizing, during the first six months of its implementation, 94% of all requested materials have been returned within two weeks. This compares with a 60–70% return rate prior to implementation of the new policy. Ardizzone reported that she has been encouraging her students to use the policy in response to their former complaints that books are not available. The UCL encourages the library to continue monitoring the results of the new recall policy, to refine it if necessary, and to continue promoting the policy to all patrons.

6. Annual Report

Weber briefly reviewed the discussion draft of the proposed 2006–07 UCL Annual Report, which had previously been distributed to UCL members.

As drafted, the report will include, among other items: an overview of current library strategies to provide better access to resources; a discussion of expanded promotion of library services to patrons; and a summary of the library's budget constraints and related issues. Weber asked UCL members for initial comments, suggestions and concerns regarding the discussion draft of the report.

Parker Ladwig's suggested an executive summary at the beginning of the report. A refined version of the report will be provided for discussion and prospective approval at the final meeting of the year in May, 2007.

Younger noted the importance of consortial agreements mentioned in the report, but reminded the UCL that "cooperation is not free." Referring to her lead article in the most recent issue of *Access*, Younger said she will continue to seek UCL input on library cooperative activities and their prospective impact on library resources. On the related issue of library space constraints, Younger and Edmonds are working together to assess space considerations for housing collections, emphasizing that there are limits to what can be done and storing and housing documents and that space is becoming a critical library need.

'Faculty Outreach' is another topic addressed in the annual report. Weber brought up the need for more pro-active efforts to help new and old faculty to become aware of the full ranges of Library resources available and noted that this is planned as a discussion topic for UCL in the 2007–08 academic year. Taylor emphasized the difficulty of this challenge, citing the difficulty of regularly informing the faculty of anything.

The OIT—Library interface is another item proposed for coverage in the annual report. Relevant for that coverage, Gordon Wishon, Director of OIT, noted that the University Council for Academic Technologies (UCAT) is currently examining new course management systems

in light of recent acquisitions—e.g., Blackboard purchased WebCT. UCAT will be evaluating these new course management alternatives over the next 18 months. A discussion on faculty use of course management systems followed, with a number of concerns and issues raised. Because of the expanding use of electronic reserves, among other relevant technologies, course management systems are very relevant for the library and for UCL deliberations. Wishon agreed to provide Weber with more information on the overall course management software issue, which will subsequently be woven into the 2006–07 UCL Annual Report.

Continued discussion and prospective approval of the 2006–07 UCL Annual Report will be a primary topic on the agenda for the May, 2007 UCL meeting.

Adjourn

In concluding the meeting Weber noted that the May 11, 2007 UCL meeting will mark the 60th anniversary of UCL.

The meeting adjourned at 9 a.m.

The next meeting is scheduled for Friday, May 11, 2007 at 7:30 am, at Café DeGrasta.

Respectfully submitted,

Kitty Cooney Hoye (recorder)

Valedictory Address

Michael Rossmann

Mr. Immelt, Fr. Jenkins, faculty and staff, family, friends, and fellow graduates:

Just under four years ago, we students left this building at the end of freshman orientation unsure of what awaited us at Notre Dame. And parents, you said your good-byes and returned to our old homes, similarly uncertain of what we would encounter here at school. Some expectations, such as northern Indiana winters, late-night trips to the grotto, and obsessed football fans, were confirmed, but other preconceived notions were later modified. After reading about students at other universities placing cars on top of buildings, I expected similar rebelliousness here. And, during my freshman year, I heard about students climbing atop our very own Stepan Center. Yet, I soon discovered the uniqueness of rebellion at Notre Dame. Instead of placing large

items atop Stepan or any other building, I heard of numerous friends ascending our geodesic and decidedly un-golden dome... to... pray the rosary. "What?" I asked. I likewise was taken aback when I noticed in my dorm that the most popular weekend spot was the chapel for Sunday night Mass. The University's faith foundation was instrumental in my decision to come here, though only after arriving as a student did I start to realize the distinctiveness of this place and the role faith plays in that distinctiveness.

Like many of my fellow Notre Dame graduates, I had the tremendous opportunity to study abroad. Near the completion of my program in Uganda, I was asked to give a talk to all the families who hosted students, so I sought suggestions from my Ugandan host family for what to say. Immediately, my host sister, Miriam, insisted that I must start my speech by saying, "I greet you in the name of our Lord, Jesus Christ." I explained to Miriam that I wasn't comfortable with this, as many students in my non-Notre Dame program didn't practice any sort of religion. This led my host family to erupt in laughter and my host mother to ask, "But Michael, if they don't have a religion, then what do they believe?"

In Uganda, as in much of sub-Saharan Africa, one's faith typically permeates every aspect of life. Such can't be said about the U.S. or Europe, particularly in the academy. Yet, Notre Dame proves an exception, and it is this exceptional nature that has both formed us and now compels us to go forward.

In October, a Harvard University committee announced proposed changes to its core curriculum for undergraduate students. Noting that students often struggle with an academic environment that is "profoundly secular," they recommended the addition of a class under the topic of "Faith and Reason." Our own President Jenkins and Provost Burish coauthored an editorial in the *Washington Post* that commended the committee for taking this step and emphasized the continued need to integrate faith into the university setting. They wrote, "It's time for universities to explore the reasoning that is possible within a tradition of faith, and to help their students appreciate this possibility and the rich resources in great religious traditions."

The recommendation of our president and provost was ignored. In February, the Harvard course committee announced its final proposal that changed the class in "Faith and Reason" to one in a category entitled "Culture and Belief." A Harvard faculty member and critic of the possible faith and reason course stated, "Universities are about reason, pure and simple. Faith—believing something without good reasons to do so—has no place in anything but a religious institution." For their part, Jenkins and Burish had argued that Notre Dame passes on the "intellectual riches" of our religious tradition and that "educating students on the reasoning inherent in particular faiths is critical if we want students to be able to understand and engage their own and other religious traditions in meaningful ways."

Moreover, real faith cannot be compartmentalized and nurtured only in church on Sundays. Faith must be lived, and faith has been evident in the hundreds of you who have gone to Appalachia or post-Katrina New Orleans to spend your fall, spring, or summer breaks in service. Beyond Touchdown Jesus or the chapel in every dorm, I have seen our Catholic identity in friends discussing their desire to promote justice and in meetings with the investment office on how our religious identity guides their decisions.

Upon recognizing the uniqueness of this place, however, we cannot pat ourselves on the back and think our job as Domers—as citizens—is done. Our distinctiveness has a purpose, and our identity as a Catholic university will be measured by how we go out from here and live our lives. Though we do it very well, the ultimate goal of this place isn't to produce good university students; it's to develop women and men of deep integrity, whose lives as parents, parishioners, business people, educators, doctors, and engineers are shaped by this foundation of integrating faith and reason. In his journal before visiting Uganda and the Millennium Village project there, Fr. Jenkins wrote, "Notre Dame can only be the Catholic university it strives to be if it devotes its time, talent and treasure to solving real-world problems." We, as graduates of Our Lady's University, can likewise only live up to what this place aspires to be by engaging real-world issues.

But, there is a significant risk in this. In confronting global problems, we can't rest as easily, can't look at the world the same way, can't help but ask questions about our place in society. Our lives become far more complicated. Before founding the Bill and Melinda Gates Foundation, now the world's largest philanthropic organization, Bill Gates read an article about global diseases that mentioned how half a million children in the developing world die each year from diarrhea caused by rotavirus. Despite such a figure, death from rotavirus doesn't make headlines in the U.S., and Gates himself had never heard of it. He then asked himself, "How could I never have heard of something that kills half a million children every year?"

I believe college can be such a formative period for the frequency of moments when something "clicks" and changes us forever, complicating our previous understanding of the world. For some, the Notre Dame Forum held this past fall discussing the global health crisis likely ignited one of those moments. For others, a catalyst may have been volunteering in the local community and recognizing our country's significant education gap or actually getting to know someone who is homeless. One of the many service programs in which you graduates will participate uses the motto of being "ruined for life" as a result of the experience. Parents and students, you probably didn't save for years and take out loans with the explicit intention of being "ruined," but Notre Dame has changed us, has ruined the 'us' that came here in the fall of 2003. We cannot see things the same way, and our lives are more complicated because of engaging the world with the resources of faith and reason. Moreover, our formation has cultivated in us a disposition to continue to be ruined as well. Yet, this expanded worldview, grounded in the integration of faith and reason, enables us to embrace the opportunity and our responsibility to make a difference and live out what this degree represents.

The life of someone like Fr. Tom Streit, a biologist and Holy Cross priest who works in Haiti to eliminate the spread of elephantiasis, illustrates the continued need for direct service to the world's poor. At the same time, there are Notre Dame alumni in the business world who use their skills and

passion to mentor nonprofit organizations. The University also sponsors the GLOBES program, which brings together a wide array of leaders to tackle environmental problems and has expanded my idea of how one can serve the world. Such diverse possibilities represent but a few among many ways to continue what has already been started in us. Just as this University's mission doesn't stop with who we are at this point, we have been formed—our lives have been complicated—to embark upon a lifetime of action.

Fellow graduates, as we leave this university, many of us have the enormous privilege of being able to live relatively comfortable lives when compared to the majority of the world's population. At the same time, whether or not we live materially comfortable lives, we are ultimately called to live complicated lives. Respecting the principles of Catholic social teaching means that the lives of millions killed around the world by treatable diseases matter, just as the economic, social, and spiritual poverty that exists in our own neighborhoods deserves our attention. Such realities necessitate concern, sympathy, and action. Though the answers to these problems are not always obvious, turning the page of the newspaper and failing to ask "why" would betray what this place, with its Catholic foundation, stands for. We now share the opportunity and duty to live out what Notre Dame, grounded in both faith and reason, has planted in us. Even though our future coworkers may not wear The Shirt on every fall Saturday, nor be willing to climb atop the office building to pray the rosary, let us not leave behind all that has shaped and complicated our lives during our time at Notre Dame. Thank you.

Research

Awards and Proposal Summary

03/01/2007 to 03/31/2007

Awards Received

Category	No.	Amount
Research	45	\$5,393,369
Total:	45	\$5,393,369

Proposals Submitted

Category	No.	Amount
Research	67	\$17,853,308
Instructional Programs	9	\$385,006
Total:	76	\$18,238,314

March 2007 Cumulative summary

Awards Received

Category	07.01.2004 - 03.31.2005		07.01.2005 - 03.31.2006		07.01.2006 - 03.31.2007	
	No.	Amount	No.	Amount	No.	Amount
Research	261	\$53,866,634	295	\$47,794,428	314	\$51,506,006
Facilities and Equipment						
Instructional Programs	2	\$44,000	3	\$308,546	6	\$729,452
Other Programs						
Service Programs						
Total:	263	\$53,910,634	298	\$48,102,974	320	\$52,235,458

Proposals Submitted

Category	07.01.2004 - 03.31.2005		07.01.2005 - 03.31.2006		07.01.2006 - 03.31.2007	
	No.	Amount	No.	Amount	No.	Amount
Research	598	\$176,913,039	625	\$160,724,668	612	\$217,530,434
Facilities and Equipment						
Instructional Programs	14	\$2,955,803	16	\$3,943,828	28	\$3,896,738
Other Programs			1	\$5,000	1	\$9,750
Service Programs						
Total:	612	\$179,868,842	642	\$164,673,496	641	\$221,436,922

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

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

Awards received during the period Mar-01-2007 to Mar-31-2007

Investigator(s)	Title	Sponsor	Dollars	Months
<u>Awards for Research</u>				
Department or Office:	Aerospace and Mechanical Engineering			
Atassi, Hafiz M. (Center or Institute)	Hydrodynamics and Acoustics of Rotor Blades in Nonuniform Inflow Conditions	Department of Navy	\$131,581	24
Morris, Scott C. (Center or Institute)	Experiments in Sound and Structured Vibration Using Air-Analog Model Ducted Propulsion Systems	Department of Navy	\$50,000	36
Morris, Scott C. (Center or Institute)	The Effects of Inlet Distortion on the Structural Acoustic Response of a Ducted Rotor	Department of Navy	\$38,188	23
Nelson, Robert C. (Center or Institute)	Use of Plasma Actuators to Increase Wind Energy Extraction	Clarkson University	\$38,650	12
Powers, Joseph M. Sommese, Andrew J. Paolucci, Samuel (Center or Institute) Wampler, Charles W.	Slow Invariant Manifolds for Spatially Homogeneous and Inhomogeneous Combustion Systems with Detailed Kinetics	National Science Foundation	\$299,998	36
Schmid, Steven R.	Manufacture and Wear Properties of Laser Textured Surfaces	Corporate Funding	\$30,000	5
Department or Office:	Biological Sciences			
Adams, John H. (Center or Institute)	Molecular Analysis of Apical Organelles of Plasmodium	National Institutes of Health	\$320,012	12
Belovsky, Gary E. (Center or Institute)	LTREB: Ecosystem Structure and Function in Palouse Grasslands	National Science Foundation	\$6,000	14
Belovsky, Gary E.	Luquillo LTER Program 4: Understanding Change in the Ecosystems of Northeastern Puerto Rico	University of Puerto Rico	\$14,000	12
Feder, Jeffrey L.	Collaborative Research: Diapause Energetics in the Apple Maggot Rhagoletis Pomonella	National Science Foundation	\$58,000	36

Awards received during the period Mar-01-2007 to Mar-31-2007

Investigator(s)	Title	Sponsor	Dollars	Months
McDowell, Mary A. (Center or Institute)	Interleukin-12 Regulation in Leishmania Infected Human Dendritic Cells	National Institutes of Health	\$248,898	36
O'Tousa, Joseph E.	Genetic Analysis of Retinal Degeneration	National Institutes of Health	\$327,713	48
Schorey, Jeffrey S. (Center or Institute)	M. Avium Gpls in Macrophage Activation and Virulence	National Institutes of Health	\$304,604	24
Schorey, Jeffrey S. (Center or Institute)	Macrophage Signaling Upon M. Avium Infection	National Institutes of Health	\$284,454	24
Suckow, Mark A. (Center or Institute)	Evaluation of Injectable Tissue Engineering Formulations	Cook Biotech, Inc.	\$2,175	6
Vihtelic, Thomas S. (Center or Institute)	Identification of Lens Development Genes	National Institutes of Health	\$252,348	12
Department or Office:	Chemical and Biomolecular Engineering			
Bohn, Paul W.	Grant Transfer	National Science Foundation	\$119,376	16
Maginn, Edward J. Brennecke, Joan F. Schneider, William F.	Ionic Liquids: Breakthrough Technology for Post-Combustion CO2 Capture	Department of Energy	\$100,000	40
Department or Office:	Chemistry and Biochemistry			
Miller, Marvin J.	Design, Syntheses and Studies of Novel Antituberculous Agents	National Institutes of Health	\$259,320	12
Mobashery, Shahriar	Penicillin-Binding Proteins, Mechanisms and Inhibition	National Institutes of Health	\$263,121	24
Ploplis, Victoria A. (Center or Institute)	Pathological Consequences of the Plasminogen System	National Institutes of Health	\$284,454	12
Department or Office:	Computer Science & Engineering			
Chen, Danny Z.	Computational Geometry Algorithms for Medical Problems in Radiation Therapy and Medical Imaging	National Science Foundation	\$93,837	36
Izaguirre, Jesus A. Striegel, Aaron Peng, Jeffrey W.	Grid-Enabled Integration of Experimental Data and Simulations for Flexible Protein Docking	National Science Foundation	\$292,229	36

Awards received during the period Mar-01-2007 to Mar-31-2007

Investigator(s)	Title	Sponsor	Dollars	Months
Thain, Douglas L.	CAREER: Data Intensive Grid Computing on Active Storage Clusters	National Science Foundation	\$159,813	60
Department or Office:	East Asian Languages and Literatures			
Brownstein, Michael C.	Four Japanese Melodramas	National Endowment for the Humanities	\$40,000	11
Department or Office:	Electrical Engineering			
Fay, Patrick J. Seabaugh, Alan C. (Center or Institute)	NIRT: Extremely-Mismatched Materials for Advanced Nanodevices	National Science Foundation	\$6,000	48
Fay, Patrick J. (Center or Institute)	InGaP DHBT for High-Efficiency L-band T/R Module	Corporate Funding	\$29,265	6
Haenggi, Martin	Rethinking Mobile Ad Hoc Networks: A Non-Equilibrium Information Theory	University of Texas	\$87,790	18
Hall, Douglas C. (Center or Institute)	High-Index-Contrast Waveguides for Enhanced Optoelectronic Devices and Integration	National Science Foundation	\$6,000	36
Department or Office:	English			
Ellmann, Maud (Center or Institute)	Modernist Returns: Recirculation in James, Woolf, Joyce, and Freud	National Humanities Center	\$75,000	9
Department or Office:	History			
Rodriguez, Marc S.	Mexican Americanism: The Tejano Diaspora and Ethnic Politics in Texas and Wisconsin after 1950.	Private Foundation	\$31,500	12
Department or Office:	Institute for Latino Studies			
Brown-Gort, Allert R. (Center or Institute) Hernandez, Edwin I.	Report on the Role of the Latino Church in HIV/AIDS Prevention and Education.	Corporate Funding	\$19,169	8
Department or Office:	Mathematics			
Akai, Terrence J.	Jacob Javits Fellowship	Department of Education	\$41,822	48
Alber, Mark S.	Multiscale Studies of Segmentation in Vertebrate Embryos	Indiana University Bloomington	\$27,000	24

Awards received during the period Mar-01-2007 to Mar-31-2007

Investigator(s)	Title	Sponsor	Dollars	Months
Cholak, Peter A.	FRG: Collaborative Research: Algorithmic Randomness	National Science Foundation	\$15,000	36
Department or Office: Philosophy				
Blanchette, Patricia A.	A Fregean Conception of Logic	Private Foundation	\$40,000	9
Department or Office: Physics				
Dobrowolska-Furdyna, Malgorzata Furdyna, Jacek K. Liu, Xinyu	Electron Spin Effects in Semiconductor Nanostructure	National Science Foundation	\$120,000	47
Janko, Boldizsar Merz, James L. Snider, Gregory L. (Center or Institute) Kuno, Masaru K.	NIRT: Spatial and Intensity Modulation of Light Emission in Fluorescent Molecules, Quantum Dots, and Nanowires	National Science Foundation	\$6,000	48
Johnson, Walter R.	Collaborative Research: New Directions in Atomic PNC	National Science Foundation	\$60,000	36
Wayne, Mitchell R. Loughran, Thomas J. Karmgard, Daniel J. Goussiou, Anna Thain, Douglas L.	NSF Graduate Teaching Fellows in K-12 Education (GK-12)	National Science Foundation	\$491,600	60
Department or Office: Political Science				
Hero, Rodney E.	Latino Community and American Politics: The Creation and Consequences of Hispanics in the U.S.	Princeton University	\$97,000	10
Department or Office: Psychology				
Lubke, Gitta	Novel methods to assess complex developmental changes	National Institutes of Health	\$92,852	12
Maxwell, Scott E.	Editorship of Psychological Methods Journal	Private Foundation	\$45,600	72

Awards received during the period Mar-01-2007 to Mar-31-2007

Investigator(s)	Title	Sponsor	Dollars	Months
Department or Office: Romance Languages and Literatures				
Ferreira Gould, Isabel A.	Genealogias do Imperio: representacoes da Familia e do Colonialismo no Romance Portugues	Private Foundation	\$23,000	7
Department or Office: Theology				
Cavadini, John C. (Center or Institute)	Echo: Faith Formation Leadership Program	Corporate Funding	\$60,000	12

Proposals submitted during the period Mar-01-2007 to Mar-31-2007

Investigator(s)	Title	Sponsor	Dollars	Months
<u>Proposals for Research</u>				
Department or Office:	Aerospace and Mechanical Engineering			
Corke, Thomas C.	Improved Flight Performance, Control and Autonomy for Flapping Wing Aircraft.	Department of the Air Force	\$366,617	36
Corke, Thomas C. Morris, Scott C.	Turbine Rim Seal Gas Path Flow Interaction Research	Department of the Air Force	\$449,958	36
Morris, Scott C.	Acoustic of Circulation Control	Department of Navy	\$309,476	36
Niebur, Glen L. Ovaert, Timothy C.	Growth of Trabecular Bone Damage Due to Off-axis Loading	National Institutes of Health	\$248,140	12
Renaud, John E. Tomar, Vikas	Multiscale Design Tool Development for High Performance Nanocomposites.	National Science Foundation	\$320,000	36
Schmid, Steven R. Wagner, Diane R.	Tribology of Woven Materials and Fiber Welding	Corporate Funding	\$200,003	12
Wagner, Diane R. Schmid, Steven R. Niebur, Glen L. Ovaert, Timothy C. Roeder, Ryan K.	Orthopaedic Implant Design and Manufacturing for Traumatic Injuries	Department of Army	\$1,681,001	36
Wang, Meng	High-Fidelity Numerical Simulation for Flow-Control Prediction	Department of the Air Force	\$298,157	36
Department or Office:	Biological Sciences			
Adams, John H.	Developing a Transposon-based Toolkit for Genetic Analysis of Malaria Parasites	National Institutes of Health	\$150,000	12
D'Souza-Schorey, Crislyn	Mechanisms of Skin Cancer Metastases	Corporate Funding	\$625,971	36
Ferdig, Michael T.	Determinants of Growth and Fitness in Drug Resistant Malaria Parasites	National Institutes of Health	\$392,646	12
Hager, Kristin M.	Host-Parasite Interactions During Infection by Apicomplexan Parasites	National Institutes of Health	\$262,500	12
Li, Lei Maaswinkel, Hans	Effects of Nicotine Exposure on Vision in Zebrafish	Corporate Funding	\$573,700	36

Proposals submitted during the period Mar-01-2007 to Mar-31-2007

Investigator(s)	Title	Sponsor	Dollars	Months
Li, Lei	Characterization of Dominant Night Blindness Mutations in Zebrafish.	National Institutes of Health	\$300,000	12
Lodge, David M.	A Novel Perspective in Invasive Species Research	Private Foundation	\$703	4
Maaswinkel, Hans Li, Lei	Visual Defects after Dopamine Depletion of the Optic Tectum in Zebrafish.	National Institutes of Health	\$209,000	12
Severson, David W. Romero-Severson, Jeanne Streit, Thomas G.	Molecular Genetics of Dengue Resistance in Mosquitoes	National Institutes of Health	\$651,196	12
Suckow, Mark A.	Evaluation of Injectable Tissue Engineering Formulations	Corporate Funding	\$2,175	12
Suckow, Mark A.	Novel ECM-Adjuvanted Cancer Vaccines	Corporate funding	\$562,316	24
Welsh, JoEllen J. Tenniswood, Martin	Vitamin D and Mammary Gland	National Institutes of Health	\$280,133	12
Whaley, Michelle A.	RET in Biological Sciences	National Science Foundation	\$18,000	2
Department or Office:	Center for Zebrafish Research			
Vihtelic, Thomas S.	Phosphoinositide Cycle Roles in Vertebrate Lens Formation	National Institutes of Health	\$289,000	12
Department or Office:	Chemical and Biomolecular Engineering			
Bohn, Paul W.	Three Dimensional Molecular Imaging for Lignocellulosic Materials	Department of Energy	\$856,700	36
Chang, Hsueh-Chia	AC Electrospinning of Nanofibers	Private Foundation	\$100,000	24
Maginn, Edward J.	Technologies for Developing Predictive Atomistic and Coarse-Grained Force Fields for Ionic Liquid Property Prediction	Corporate Funding	\$17,500	9
Maginn, Edward J.	Tailoring Inorganic Ion Exchangers for Selective Radiochemical Separations	Savannah River National Labs	\$210,223	36
McCready, Mark J.	Entrainment in two-phase gas-liquid flows	Corporate Funding	\$82,500	20

Proposals submitted during the period Mar-01-2007 to Mar-31-2007

Investigator(s)	Title	Sponsor	Dollars	Months
Miller, Albert E. McGinn, Paul J.	Nanofiber Paper for Efficient Hydrogen Generation	Corporate Funding	\$24,863	12
Schneider, William F.	Collaborative Research: Predictive Modeling of Surface Catalysis with Multiple Adsorbate Species	National Science Foundation	\$304,969	36
Department or Office:	Chemistry and Biochemistry			
Bartels, David M. LaVerne, Jay A.	Radiation Stability of Ionic Liquids	Savannah River National Labs	\$660,869	36
Carmichael, Ian C. Brennecke, Joan F. Schneider, William F. Bentley, John J. LaVerne, Jay A. Maginn, Edward J. Chipman, Daniel M. Bartels, David M.	Understanding the Radiation Chemistry of Ionic Liquids	Department of Energy	\$1,284,036	36
Helquist, Paul Tenniswood, Martin	Development of Antiproliferative Marine Macrolides	National Institutes of Health	\$349,508	12
Mobashery, Shahriar Chang, Mayland	Intervention of Disease by Selective Gelatinase Inhibitors	National Institutes of Health	\$495,969	12
Prorok, MaryFrances E.	The Interaction Between Urokinase-Type Plasminogen Activator and Its Receptor as a Target in Prevention of Breast Cancer Tumor Metastasis.	Indiana University-School of Medicine	\$42,444	24
Taylor, Richard E.	Electrophile Induced Ether Transfer	Private Foundation	\$123,000	36
Taylor, Richard E.	Electrophile-Induced Ether Transfer Methodology for Polyketide Synthesis.	Corporate Funding	\$158,400	24
Department or Office:	Civil Engineering and Geological Sciences			
Burns, Peter C.	Synthesis, Characterization and Properties of Uranium-Based Mesoporous Materials	Department of Energy	\$378,037	36

Proposals submitted during the period Mar-01-2007 to Mar-31-2007

Investigator(s)	Title	Sponsor	Dollars	Months
Department or Office:	Computer Science & Engineering			
Brockman, Jay B. Kogge, Peter M.	SASIC "Structured Asic"	DARPA	\$234,641	6
Chawla, Nitesh V. Poellabauer, Christian	ThreatForecaster: Detection and Prediction of Threats in the Information Wilderness	National Science Foundation	\$387,465	36
Kogge, Peter M. Brockman, Jay B.	Design and Simulation of a Programmable Memory/Multiplier Array Using G4-FET Technology	Department of the Air Force	\$175,001	9
Kogge, Peter M. Brockman, Jay B.	Advanced Memory Architecture Study	DARPA	\$327,550	6
Poellabauer, Christian	REU for CAREER: Judicious Resource Management in Wireless Systems.	National Science Foundation	\$12,000	3
Thain, Douglas L.	REU Supplement: Data Intensive Grid Computing on Active Storage Clusters.	National Science Foundation	\$12,000	3
Department or Office:	Electrical Engineering			
Bernstein, Gary H. Fay, Patrick J.	REU: Supplement: Novel Superconnects for Ultra-High Performance Hybrid Communications Systems	National Science Foundation	\$6,000	2
Fay, Patrick J.	NIRT: Extremely-mismatched Materials for Advanced Nanodevices	National Science Foundation	\$6,000	3
Fay, Patrick J.	Optically Triggered Interband Resonant Tunnel Diodes for Terahertz Sources	Corporate Funding	\$41,381	6
Fay, Patrick J.	Advanced Sensors for Millimeter-Wave Detection and Imaging.	National Science Foundation	\$129,000	12
Fuja, Thomas E. Laneman, J. N. Costello, Daniel J.	Coding/Routing Interaction in Mesh Networks	Corporate Funding	\$23,400	12
Hall, Douglas C.	REU Supplement for High Index Contrast Waveguides for Enhanced Optoelectronic Devices and Integration	National Science Foundation	\$6,000	7

Proposals submitted during the period Mar-01-2007 to Mar-31-2007

Investigator(s)	Title	Sponsor	Dollars	Months
Hall, Douglas C. Fay, Patrick J. Kosel, Thomas H.	GaAs MOSFET Development Collaborative Research Agreement	Corporate Funding	\$89,091	9
Lent, Craig S.	Learning Physics by Building MATLAB Tools	National Science Foundation	\$292,003	36
Snider, Gregory L. Janko, Boldizsar	Request for REU Supplement for NIRT: Spatial and Intensity Modulation of Light Emission.	National Science Foundation	\$6,000	3
Department or Office:	Institute for Latino Studies			
Ready, Timothy	Hispanic Housing in the United States: Promoting and Maintaining Household Ownership Among Hispanic Immigrants	Corporate Funding	\$46,349	12
Department or Office:	Physics			
Eskildsen, Morten R.	Vortices and the Interplay Between Superconductivity and Magnetism.	Department of Energy	\$482,039	36
LaVerne, Jay A.	Preventing Bond-Breaking and Radical Formation in the Radiation Damage of Organic Molecules	Brookhaven National Laboratory	\$232,498	36
LaVerne, Jay A. Pimblott, Simon M.	Radiolytic Degradation of Nuclear Waste Separation Systems Components	Department of Energy	\$788,571	36
LaVerne, Jay A.	Actinide Chemistry in Oxidative Alkaline Solutions: Synergistic Molecular Chemistry for Advanced SNF Reprocessing	Los Alamos National Laboratory	\$327,073	36
Department or Office:	Political Science			
Hagopian, Frances	Reorganizing Political Representation and Patronage in Latin America: Parties, Programs, and Patronage in Argentina, Brazil, Chile, and Mexico.	Private Foundation	\$53,500	9
Messina, Anthony M.	Migration to Europe in an Age of Terror	Harvard University	\$35,000	9
Messina, Anthony M.	Migration to Europe in an Age of Terror	Private Foundation	\$85,000	9

Proposals submitted during the period Mar-01-2007 to Mar-31-2007

Investigator(s)	Title	Sponsor	Dollars	Months
Department or Office: Psychology				
Cummings, E. M. Darby, John Maxwell, Scott E.	Children and Political Violence in Northern Ireland	National Institutes of Health	\$431,222	12
Narvaez, Darcia F.	The Science of Virtue: Educating Expertise for Morally-Engaged Citizenship	Private Foundation	\$40,000	5
Department or Office: Robinson Community Learning Center				
Caponigro, Jerome V.	Robinson Center After School Literacy Skills Development: An Integrated Approach Between University and Community.	Private Foundation	\$50,000	24
Kostielney, Andrew T.	Spanning the Poverty Gap Initiative	Corporate Funding	\$25,000	9
Department or Office: Sociology				
Smith, Christian	Innovative Research on Gratitude and Generosity	Private Foundation	\$99,894	12
Smith, Christian	The Religion Survey Data Expansion Project	Private Foundation	\$99,920	12
Department or Office: Theology				
Leyerle, Blake	Raising Children in Classical and Christian Antiquity	Private Foundation	\$30,000	9
<u>Proposals for Instructional Programs</u>				
Department or Office: Center for Social Concerns				
Pettit, Rebecca T.	The National Youth Sports Program	The National Youth Sports Program Fund	\$3,500	5
Department or Office: College of Engineering				
Cunningham, Robert J.	Boeing/ND Scholars in engineering and Business. support for Diversity Programs.	Corporate Funding	\$47,700	9
Department or Office: Irish Language and Literature				
O Conchubhair, Brian Fox, Christopher	Fulbright Foreign Language Teaching Assistant Orientation	Private Foundation	\$34,368	4
Department or Office: Kellogg Institute for International Studies				
Schierling, Sharon K. Rivera, Juan M.	A Business Model for Improving Competitiveness of the Mexican Rural Sector	U.S. Agency for International Development	\$249,999	24

Proposals submitted during the period Mar-01-2007 to Mar-31-2007

Investigator(s)	Title	Sponsor	Dollars	Months
Department or Office:	Romance Languages and Literatures			
Ferreira Gould, Isabel A.	Africa in Portuguese, the Portuguese in Africa: An International Research Conference	Private Foundation	\$3,000	11
Department or Office:	Sociology			
Cardenas, Gilberto	Learning Generation Initiative: Plazas Comunitarias Project	Corporate Funding	\$12,439	18
Department or Office:	Theology			
Cavadini, John C.	Vision Youth Ministry Partnership	Corporate Funding	\$12,000	12
Department or Office:	Upward Bound			
Coates, Alyssia J.	Overcoming Barriers and Challenges to Education in Indiana	Corporate Funding	\$20,000	12
Luckey, Velshonna N.	First Book Grant Program	Private Foundation	\$2,000	3

Awards and Proposal Summary

Centers and Institutes Report

03/01/2007 to 03/31/2007

Awards Received

Department or Office	No.	Amount
Center for Applied Mathematics	1	\$299,998
Center for Flow Physics and Control	4	\$258,419
Center for Global Health and Infectious Diseases	4	\$1,157,968
Center for Transgene Research	1	\$284,454
Center for Zebrafish Research	1	\$252,348
Environmental Research Center	1	\$6,000
Freimann Life Science Center	1	\$2,175
Institute for Church Life	1	\$60,000
Institute for Latino Studies	1	\$19,169
Institute for Theoretical Sciences	1	\$6,000
Keough Institute for Irish Studies	1	\$75,000
Nano Science and Technology Center	4	\$47,265
Total:	21	\$2,468,796

Proposals Submitted

Department or Office	No.	Amount
Center for Aquatic Conservation	1	\$703
Center for Children and Families	1	\$431,222
Center for Flow Physics and Control	4	\$1,424,208
Center for Global Health and Infectious Diseases	4	\$1,456,342
Center for Microfluidics and Medical Diagnostics	1	\$100,000
Center for Social Concerns	1	\$3,500
Center for Transgene Research	1	\$42,444
Center for Zebrafish Research	4	\$1,371,700
Center for the Study of Religion	2	\$199,814
Freimann Life Science Center	2	\$564,491
Institute for Church Life	1	\$12,000
Institute for Latino Studies	1	\$12,439
Kellogg Institute for International Studies	2	\$252,999
Keough Institute for Irish Studies	1	\$34,368
ND Energy Center	1	\$1,284,036
Nano Science and Technology Center	6	\$277,472
Radiation Laboratory	4	\$2,009,011
Robinson Community Learning Center	3	\$77,000
Walther Cancer Research Center	5	\$1,752,848
Total:	45	\$11,306,597

Awards and Proposal Summary**Centers and Institutes Report****07/01/2006 to 03/31/2007****Awards Received**

Department or Office	No.	Amount
Alliance for Catholic Education	3	\$347,500
Center for Applied Mathematics	1	\$299,998
Center for Astrophysics	7	\$377,005
Center for Children and Families	5	\$2,171,886
Center for Flow Physics and Control	18	\$1,657,509
Center for Global Health and Infectious Diseases	12	\$7,641,233
Center for Microfluidics and Medical Diagnostics	2	\$1,100,050
Center for Research Computing	1	\$118,321
Center for Social Concerns	3	\$64,150
Center for Transgene Research	2	\$650,642
Center for Zebrafish Research	4	\$680,378
Center for the Study of Religion	1	\$160,127
Environmental Research Center	2	\$66,000
Freimann Life Science Center	3	\$23,951
Institute for Church Life	2	\$80,000
Institute for Educational Initiatives	2	\$79,900
Institute for Latino Studies	13	\$1,141,522
Institute for Theoretical Sciences	1	\$6,000
Interdisciplinary Center for the Study of Biocomplexity	3	\$818,466
Kellogg Institute for International Studies	2	\$319,476
Keough Institute for Irish Studies	2	\$210,623
Medieval Institute	1	\$20,000
ND Energy Center	1	\$150,300
Nano Science and Technology Center	30	\$3,645,240
Nuclear Structure Laboratory	2	\$2,014,493
Radiation Laboratory	6	\$1,004,230
Robinson Community Learning Center	6	\$62,066
Snite Museum of Art	1	\$5,000
South Bend Center for Medical Education	2	\$337,415
Walther Cancer Research Center	5	\$601,000
Total:	143	\$25,854,481

Awards and Proposal Summary

Centers and Institutes Report

07/01/2006 to 03/31/2007

Proposals Submitted

Department or Office	No.	Amount
Alliance for Catholic Education	2	\$358,593
Center for Applied Mathematics	2	\$1,652,026
Center for Aquatic Conservation	4	\$19,192
Center for Astrophysics	14	\$4,790,798
Center for Children and Families	3	\$502,512
Center for Complex Network Research	2	\$545,000
Center for Flow Physics and Control	21	\$11,260,889
Center for Global Health and Infectious Diseases	26	\$27,423,282
Center for Microfluidics and Medical Diagnostics	6	\$1,167,252
Center for Research Computing	2	\$747,591
Center for Social Concerns	1	\$3,500
Center for Transgene Research	5	\$2,941,071
Center for Zebrafish Research	13	\$3,746,377
Center for the Study of Religion	4	\$659,941
Environmental Research Center	2	\$1,688,603
Freimann Life Science Center	4	\$614,437
Institute for Church Life	3	\$135,000
Institute for Latino Studies	15	\$3,264,988
Interdisciplinary Center for the Study of Biocomplexity	2	\$592,267
Joint Institute for Nuclear Astrophysics	2	\$3,128,410
Kellogg Institute for International Studies	5	\$527,999
Keough Institute for Irish Studies	4	\$164,368
Kroc Institute for International Peace Studies	3	\$197,645
Medieval Institute	2	\$1,020,000
ND Energy Center	8	\$6,192,587
Nano Science and Technology Center	43	\$12,163,460
Nuclear Structure Laboratory	2	\$184,493
Radiation Laboratory	8	\$19,340,694
Rare Disease Research Center	1	\$124,740
Robinson Community Learning Center	9	\$432,000
Walther Cancer Research Center	13	\$3,319,282
Total:	231	\$108,908,997

Awards received during the period Mar-01-2007 to Mar-31-2007**Centers and Institutes Report**

Investigator(s)	Title	Sponsor	Dollars	Award #
<u>Awards for Research</u>				
Department or Office:	Center for Applied Mathematics			
Powers, Joseph M.	Slow Invariant Manifolds for Spatially Homogeneous and Inhomogeneous Combustion Systems with Detailed Kinetics	National Science Foundation	\$299,998	007045-001
Sommese, Andrew J.				
Paolucci, Samuel (Center or Institute)				
Wampler, Charles W.				
Department or Office:	Center for Flow Physics and Control			
Nelson, Robert C. (Center or Institute)	Use of Plasma Actuators to Increase Wind Energy Extraction	Clarkson University	\$38,650	007035-001
Morris, Scott C. (Center or Institute)	The Effects of Inlet Distortion on the Structural Acoustic Response of a Ducted Rotor	Department of Navy	\$38,188	007033-001
Morris, Scott C. (Center or Institute)	Experiments in Sound and Structured Vibration Using Air-Analog Model Ducted Propulsion Systems	Department of Navy	\$50,000	006242-001
Atassi, Hafiz M. (Center or Institute)	Hydrodynamics and Acoustics of Rotor Blades in Nonuniform Inflow Conditions	Department of Navy	\$131,581	007029-001
Department or Office:	Center for Global Health and Infectious Diseases			
Adams, John H. (Center or Institute)	Molecular Analysis of Apical Organelles of Plasmodium	National Institutes of Health	\$320,012	006526-001
Schorey, Jeffrey S. (Center or Institute)	M. Avium Gpls in Macrophage Activation and Virulence	National Institutes of Health	\$304,604	006246-001
McDowell, Mary A. (Center or Institute)	Interleukin-12 Regulation in Leishmania Infected Human Dendritic Cells	National Institutes of Health	\$248,898	006454-001
Schorey, Jeffrey S. (Center or Institute)	Macrophage Signaling Upon M. Avium Infection	National Institutes of Health	\$284,454	006201-001
Department or Office:	Center for Transgene Research			
Ploplis, Victoria A. (Center or Institute)	Pathological Consequences of the Plasminogen System	National Institutes of Health	\$284,454	006228-001

Awards received during the period Mar-01-2007 to Mar-31-2007

Centers and Institutes Report

Investigator(s)	Title	Sponsor	Dollars	Award #
Department or Office: Center for Zebrafish Research				
Vihtelic, Thomas S. (Center or Institute)	Identification of Lens Development Genes	National Institutes of Health	\$252,348	006013-001
Department or Office: Environmental Research Center				
Belovsky, Gary E. (Center or Institute)	LTREB: Ecosystem Structure and Function in Palouse Grasslands	National Science Foundation	\$6,000	006340-001
Department or Office: Freimann Life Science Center				
Suckow, Mark A. (Center or Institute)	Evaluation of Injectable Tissue Engineering Formulations	Corporate Funding	\$2,175	007044-001
Department or Office: Institute for Church Life				
Cavadini, John C. (Center or Institute)	Echo: Faith Formation Leadership Program	Corporate Funding	\$60,000	007031-001
Department or Office: Institute for Latino Studies				
Brown-Gort, Allert R. (Center or Institute) Hernandez, Edwin I.	Report on the Role of the Latino Church in HIV/AIDS Prevention and Education.	Corporate Funding	\$19,169	007024-001
Department or Office: Institute for Theoretical Sciences				
Janko, Boldizsar Merz, James L. Snider, Gregory L. (Center or Institute) Kuno, Masaru K.	NIRT: Spatial and Intensity Modulation of Light Emission in Fluorescent Molecules, Quantum Dots, and Nanowires	National Science Foundation	\$6,000	006815-001
Department or Office: Keough Institute for Irish Studies				
Ellmann, Maud (Center or Institute)	Modernist Returns: Recirculation in James, Woolf, Joyce, and Freud	National Humanities Center	\$75,000	007028-001
Department or Office: Nano Science and Technology Center				
Fay, Patrick J. (Center or Institute)	InGaP DHBT for High-Efficiency L-band T/R Module	Corporate Funding	\$29,265	007032-001
Hall, Douglas C. (Center or Institute)	High-Index-Contrast Waveguides for Enhanced Optoelectronic Devices and Integration	National Science Foundation	\$6,000	006901-001

Awards received during the period Mar-01-2007 to Mar-31-2007**Centers and Institutes Report**

Investigator(s)	Title	Sponsor	Dollars	Award #
Janko, Boldizsar Merz, James L. Snider, Gregory L. (Center or Institute) Kuno, Masaru K.	NIRT: Spatial and Intensity Modulation of Light Emission in Fluorescent Molecules, Quantum Dots, and Nanowires	National Science Foundation	\$6,000	006815-001
Fay, Patrick J. Seabaugh, Alan C. (Center or Institute)	NIRT: Extremely-Mismatched Materials for Advanced Nanodevices	National Science Foundation	\$6,000	006559-001

Proposals submitted during the period Mar-01-2007 to Mar-31-2007

Centers and Institutes Report

Investigator(s)	Title	Sponsor	Dollars	Proposal #
<u>Proposals for Research</u>				
Department or Office:	Center for Aquatic Conservation			
Lodge, David M.	A Novel Perspective in Invasive Species Research	Private Foundation	\$703	07090631
Department or Office:	Center for Children and Families			
Cummings, E. M. Darby, John Maxwell, Scott E.	Children and Political Violence in Northern Ireland	National Institutes of Health	\$431,222	07090640
Department or Office:	Center for Flow Physics and Control			
Wang, Meng	High-Fidelity Numerical Simulation for Flow-Control Prediction	Department of the Air Force	\$298,157	07090654
Morris, Scott C.	Acoustic of Circulation Control	Department of Navy	\$309,476	07090645
Corke, Thomas C. Morris, Scott C.	Turbine Rim Seal Gas Path Flow Interaction Research	Department of the Air Force	\$449,958	07090650
Corke, Thomas C.	Improved Flight Performance, Control and Autonomy for Flapping Wing Aircraft.	Department of the Air Force	\$366,617	07090652
Department or Office:	Center for Global Health and Infectious Diseases			
Ferdig, Michael T.	Determinants of Growth and Fitness in Drug Resistant Malaria Parasites	National Institutes of Health	\$392,646	07090598
Hager, Kristin M.	Host-Parasite Interactions During Infection by Apicomplexan Parasites	National Institutes of Health	\$262,500	07090599
Adams, John H.	Developing a Transposon-based Toolkit for Genetic Analysis of Malaria Parasites	National Institutes of Health	\$150,000	07090649
Severson, David W. Romero-Severson, Jeanne Streit, Thomas G.	Molecular Genetics of Dengue Resistance in Mosquitoes	National Institutes of Health	\$651,196	07090584
Department or Office:	Center for Microfluidics and Medical Diagnostics			
Chang, Hsueh-Chia	AC Electrospinning of Nanofibers	Private Foundation	\$100,000	07090630

Proposals submitted during the period Mar-01-2007 to Mar-31-2007**Centers and Institutes Report**

Investigator(s)	Title	Sponsor	Dollars	Proposal #
Department or Office:	Center for Transgene Research			
Prorok, MaryFrances E.	The Interaction Between Urokinase-Type Plasminogen Activator and Its Receptor as a Target in Prevention of Breast Cancer Tumor Metastasis.	Indiana University-School of Medicine	\$42,444	07090587
Department or Office:	Center for Zebrafish Research			
Vihtelic, Thomas S.	Phosphoinositide Cycle Roles in Vertebrate Lens Formation	National Institutes of Health	\$289,000	07090579
Li, Lei	Characterization of Dominant Night Blindness Mutations in Zebrafish.	National Institutes of Health	\$300,000	07090601
Maaswinkel, Hans Li, Lei	Visual Defects after Dopamine Depletion of the Optic Tectum in Zebrafish.	National Institutes of Health	\$209,000	07090632
Li, Lei Maaswinkel, Hans	Effects of Nicotine Exposure on Vision in Zebrafish	Corporate Funding	\$573,700	07090648
Department or Office:	Center for the Study of Religion			
Smith, Christian	Innovative Research on Gratitude and Generosity	Private Foundatio	\$99,894	07090643
Smith, Christian	The Religion Survey Data Expansion Project	Private Foundation	\$99,920	07090642
Department or Office:	Freimann Life Science Center			
Suckow, Mark A.	Evaluation of Injectable Tissue Engineering Formulations	Corporate Funding	\$2,175	07090610
Suckow, Mark A.	Novel ECM-Adjuvanted Cancer Vaccines	Corporate Funding	\$562,316	07090621
Department or Office:	ND Energy Center			
Carmichael, Ian C. Brennecke, Joan F. Schneider, William F. Bentley, John J. LaVerne, Jay A. Maginn, Edward J. Chipman, Daniel M. Bartels, David M.	Understanding the Radiation Chemistry of Ionic Liquids	Department of Energy	\$1,284,036	07090620

Proposals submitted during the period Mar-01-2007 to Mar-31-2007**Centers and Institutes Report**

Investigator(s)	Title	Sponsor	Dollars	Proposal #
Department or Office: Nano Science and Technology Center				
Fay, Patrick J.	Advanced Sensors for Millimeter-Wave Detection and Imaging.	National Science Foundation	\$129,000	07090596
Snider, Gregory L. Janko, Boldizar	Request for REU Supplement for NIRT: Spatial and Intensity Modulation of Light Emission.	National Science Foundation	\$6,000	07090600
Hall, Douglas C. Fay, Patrick J. Kosel, Thomas H.	GaAs MOSFET Development Collaborative Research Agreement	Corporate Funding	\$89,091	07090603
Hall, Douglas C.	REU Supplement for High Index Contrast Waveguides for Enhanced Optoelectronic Devices and Integration	National Science Foundation	\$6,000	07090617
Fay, Patrick J.	NIRT: Extremely-mismatched Materials for Advanced Nanodevices	National Science Foundation	\$6,000	07090622
Fay, Patrick J.	Optically Triggered Interband Resonant Tunnel Diodes for Terahertz Sources	Corporate Funding	\$41,381	07090636
Department or Office: Radiation Laboratory				
LaVerne, Jay A.	Actinide Chemistry in Oxidative Alkaline Solutions: Synergistic Molecular Chemistry for Advanced SNF Reprocessing	Los Alamos National Laboratory	\$327,073	07090582
LaVerne, Jay A. Pimblott, Simon M.	Radiolytic Degradation of Nuclear Waste Separation Systems Components	Department of Energy	\$788,571	07090608
Bartels, David M. LaVerne, Jay A.	Radiation Stability of Ionic Liquids	Savannah River National Labs	\$660,869	07090609
LaVerne, Jay A.	Preventing Bond-Breaking and Radical Formation in the Radiation Damage of Organic Molecules	Brookhaven National Laboratory	\$232,498	07090613

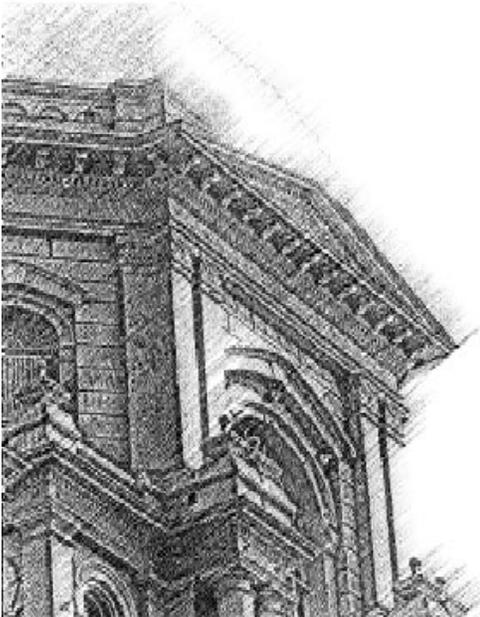
Proposals submitted during the period Mar-01-2007 to Mar-31-2007**Centers and Institutes Report**

Investigator(s)	Title	Sponsor	Dollars	Proposal #
Department or Office:	Robinson Community Learning Center			
Caponigro, Jerome V.	Robinson Center After School Literacy Skills Development: An Integrated Approach Between University and Community.	Private Foundation	\$50,000	07090589
Kostielney, Andrew T.	Spanning the Poverty Gap Initiative	Corporate Funding	\$25,000	07090627
Department or Office:	Walther Cancer Research Center			
Helquist, Paul Tenniswood, Martin	Development of Antiproliferative Marine Macrolides	National Institutes of Health	\$349,508	07090597
Mobashery, Shahriar Chang, Mayland	Intervention of Disease by Selective Gelatinase Inhibitors	National Institutes of Health	\$495,969	07090595
Taylor, Richard E.	Electrophile-Induced Ether Transfer Methodology for Polyketide Synthesis.	Corporate Funding	\$158,400	07090588
Taylor, Richard E.	Electrophile Induced Ether Transfer	Private Foundation	\$123,000	07090641
D'Souza-Schorey, Crislyn	Mechanisms of Skin Cancer Metastases	Corporate Funding	\$625,971	07090653
<u>Proposals for Instructional Programs</u>				
Department or Office:	Center for Social Concerns			
Pettit, Rebecca T.	The National Youth Sports Program	The National Youth Sports Program Fund	\$3,500	07090615
Department or Office:	Institute for Church Life			
Cavadini, John C.	Vision Youth Ministry Partnership	Corporate Funding	\$12,000	07090580
Department or Office:	Institute for Latino Studies			
Cardenas, Gilberto	Learning Generation Initiative: Plazas Comunitarias Project	Corporate Funding	\$12,439	07090581
Department or Office:	Kellogg Institute for International Studies			
Schierling, Sharon K. Rivera, Juan M.	A Business Model for Improving Competitiveness of the Mexican Rural Sector	U.S. Agency for International Development	\$249,999	07090639
Ferreira Gould, Isabel A.	Africa in Portuguese, the Portuguese in Africa: An International Research Conference	Private Foundation	\$3,000	07090646
Department or Office:	Keough Institute for Irish Studies			
O Conchubhair, Brian Fox, Christopher	Fulbright Foreign Language Teaching Assistant Orientation	Institute for International Education	\$34,368	07090647

Proposals submitted during the period Mar-01-2007 to Mar-31-2007**Centers and Institutes Report**

Investigator(s)	Title	Sponsor	Dollars	Proposal #
Department or Office: Robinson Community Learning Center				
Luckey, Velshonna N.	First Book Grant Program	Corporate Funding	\$2,000	07090628

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