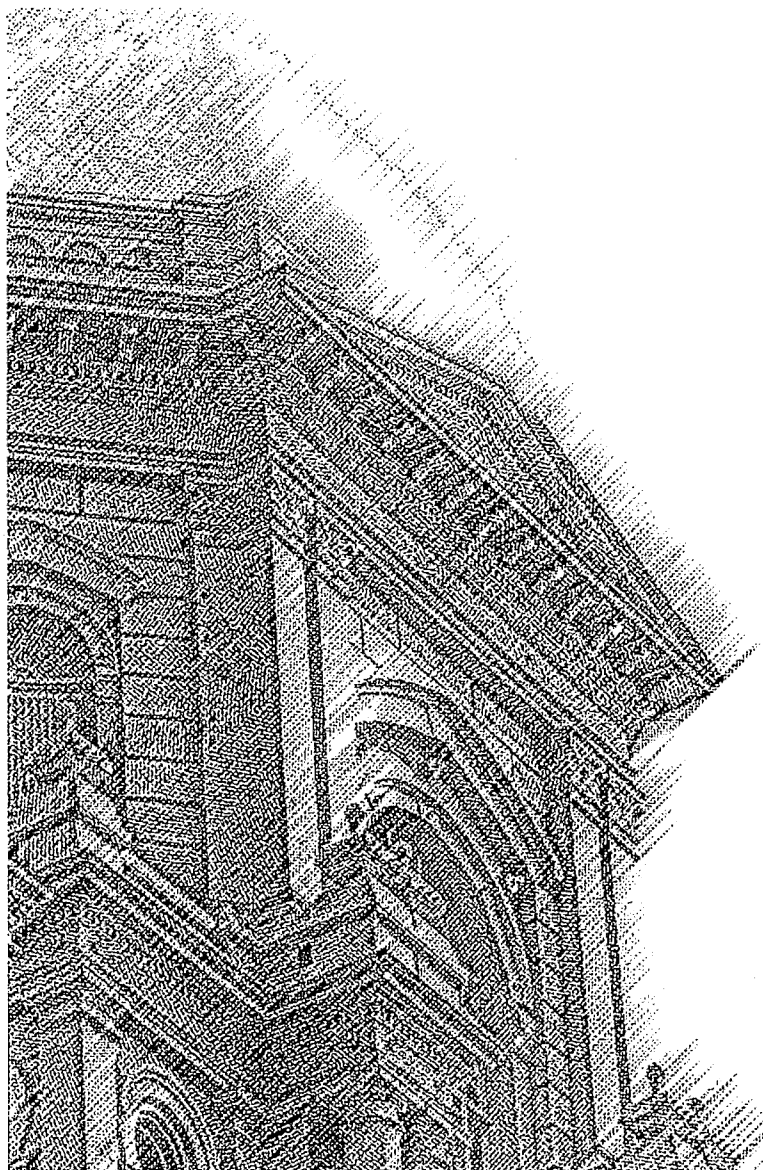


• Notre Dame Report



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The University

Honorary Degree Recipients Announced

Ten distinguished national figures in the church, education, public service, literature, law and business will join principal speaker Joseph Kernan as honorary degree recipients at the 153rd Commencement exercises.

Kernan — a Notre Dame alumnus, former mayor of South Bend and now lieutenant governor of Indiana — will receive an honorary doctor of laws degree, and the University will present the 1998 Laetare Medal to Dr. Edmund D. Pellegrino, John Carroll Professor of Medicine and Medical Ethics at Georgetown University.

In addition to Kernan, the honorary degree recipients are:

William H. Beaver, Joan E. Horngren Professor of Accounting, Stanford University, doctor of laws. A 1962 graduate of Notre Dame, Beaver holds master's and doctoral degrees from the University of Chicago's Graduate School of Business. He taught for four years at Chicago before joining the Stanford faculty in 1969. An award-winning teacher as well as a leading researcher in financial accounting, he is the author of the widely regarded book *Financial Reporting: An Accounting Revolution*. Beaver's contributions to his profession include serving as a consultant to the Financial Accounting Standards Board, a member of the Securities and Exchange Commission Advisory Committee, a trustee of the Financial Accounting Foundation, and as a member of numerous editorial review boards. He is a past president of the American Accounting Association and a member of its Hall of Fame.

Elaine Chao, distinguished fellow, Heritage Foundation, doctor of laws. Prior to joining the Heritage Foundation, Chao served as president and chief executive officer of United Way of America from 1992 to 1996. She led the organization to recovery after allegations of widespread mismanagement and abuse by the previous administration. Chao previously served for two

years as director of the Peace Corps at a time when the organization made its first outreach to the newly independent states of the former Soviet Union. She also has served as deputy secretary of the U.S. Department of Transportation, chair of the Federal Maritime Commission and vice president of BankAmerica Capital Markets Group. She holds a bachelor's degree in economics from Mount Holyoke College and a master of business administration degree from Harvard Business School.

Kenneth Chenault, president and chief operating officer, American Express, doctor of laws. In his current position since 1997, Chenault has been with American Express since 1981, serving as director of strategic planning, president of the consumer card group, president of travel-related services and vice chairman. He has been at the forefront of the company's efforts to increase market share in its core businesses by expanding product offerings, globalizing the business and helping open its card network to banking partners worldwide. A graduate of Bowdoin College and the Harvard Law School, Chenault previously served as a management consultant with Bain & Co. and as an associate in the law firm of Rogers & Wells.

Charles Fischer, president, chief executive officer and chairman of the board, Harbison-Fischer Manufacturing Company, doctor of laws. A 1949 Notre Dame graduate, Fischer was elected to the University's Board of Trustees in October 1991 and was elevated to life trustee in May 1997. After earning a master of business administration degree from Stanford University in 1952, he joined his father's Fort Worth, Tex., business and has made it the world's largest manufacturer of subsurface oil well pumps. He and his family underwrote construction in 1992 of the Charles A. Fischer Graduate Residences, honoring his father, and recently made possible the renovation of the new Trafalgar Square site of Notre Dame's London Study Centre, to be named in honor of his mother, Marian Kennedy Fischer.

Juliet Villarreal Garcia, president, University of Texas at Brownsville and Texas Southmost College, doctor of laws. One of the nation's most influential Hispanic leaders, Garcia became the first Mexican-American woman to lead a U.S. institution of higher education when she was appointed president of Texas Southmost College in 1986. She assumed the presidency of both the University of Texas at Brownsville and Texas Southmost College, a 72-year-old community college, when the two institutions forged a partnership in 1992. Garcia earned her bachelor's and master's degrees in speech and English from the University of Houston and her doctorate in communications and linguistics from the University of Texas at Austin. She served for 10 years on the board of the American Council on Education and in 1994 succeeded Rev. Edward A. Malloy, C.S.C., as chair of the organization.

Rev. Bryan Hehir, professor of the practice in religion and society, Harvard Divinity School. A leading voice in Christian ethics, international affairs and foreign policy, Hehir has held numerous positions with the U.S. Catholic Conference and was the primary author of the Catholic bishops' 1983 pastoral letter on nuclear warfare, *The Challenge of Peace: God's Promise, Our Response*. In addition to his teaching and research at Harvard, he also is counselor to Catholic Relief Services. He was graduated in 1977 from Harvard Divinity School and has served on its faculty since 1993 after previously teaching for eight years at Georgetown University. He is a member of the advisory board for the Kroc Institute for International Peace Studies.

Cardinal William Keeler, Archdiocese of Baltimore, doctor of laws. The head of the oldest See in the United States, Cardinal Keeler is a leading advocate of the prolife movement, Catholic education and interfaith relations. Educated at St. Charles Seminary in Philadelphia and the Pontifical Gregorian University in Rome, he was ordained a priest for the Diocese of Harrisburg, Pa., in 1955. He served as a special ad-

visor to the Second Vatican Council before returning to his home diocese, where he ultimately became bishop in 1984. He was appointed archbishop of Baltimore in 1989 and was elevated to cardinal five years later. He was president of the National Conference of Catholic Bishops from 1992 to 1995 and currently serves on the Pontifical Council for the Promotion of Christian Unity and the International Liaison Committee of Catholics and Jews.

Saunders Mac Lane, Max Mason Distinguished Service Professor Emeritus of Mathematics, University of Chicago, doctor of science. One of the world's preeminent mathematicians for more than 60 years, Mac Lane is responsible for developing much of the framework in which a great portion of modern mathematics is now cast. Educated at Yale University, Chicago and Göttingen University in Germany, he taught and conducted research at Yale, Cornell, Harvard and Columbia Universities before joining the faculty at Chicago in 1947. He was appointed to a chaired professorship in 1963 and today, at age 88, remains active in scholarship as an emeritus professor. The author of six books, he has served as president of both the Mathematical Association of America and the American Mathematical Society and has been a member of the National Academy of Sciences since 1949.

Kathleen Norris, author, doctor of letters. An award-winning poet and author, Norris has published five books of poetry and three books of essays, including *New York Times* bestsellers, *Dakota: A Spiritual Geography* and *The Cloister Walk*. In her latest book, *Amazing Grace: A Vocabulary of Faith*, Norris tells of her gradual return to Christianity after 20 years of never willingly attending church. She earned her bachelor's degree from Bennington College in 1969 and worked in New York City as an arts administrator at the Academy of American Poets before moving in 1971 to her grandparents' home in Lemmon, S.D., where she lives with her husband, poet David Dwyer.

Charles M. Vest, president, Massachusetts Institute of Technology, doctor of engineering. A mechanical engineer by training, Vest is in his ninth year as president of MIT. He previously served as provost, vice president for academic affairs, dean of engineering and associate dean for academic affairs at the University of Michigan. He earned his bachelor's degree in mechanical engineering from West Virginia University and master's and doctoral degrees in the field from Michigan. He joined Michigan's faculty in 1968 and was appointed full professor in 1977, specializing in the thermal sciences and in the engineering applications of lasers and coherent optics. He is the current president of the Notre Dame-based National Consortium for Graduate Degrees in Consortia in Engineering and Science (GEM).

Campus Ministry Receives Koch Grant

The Office of Campus Ministry has received a \$20,000 grant from the Koch Foundation to support Share the Light, a program which prepares more than 60 undergraduate students who teach religious education in 15 parishes in the South Bend area each week. Participants in the program who complete three years of teaching are certified by the Diocese of Fort Wayne-South Bend as catechists for service to the church throughout the United States.

Faculty Notes

Honors

Olivia Remie Constable, associate professor of history, won the John Nicholas Brown Prize from the Medieval Academy of America for her book *Trade and Traders in Muslim Spain*, which was judged best first book in the field of medieval studies for its year of publication.

William G. Dwyer, Hank professor of mathematics, was named a member of the editorial board of the journal *Topology and its Applications*.

Josephine Massyngbaerde Ford, professor of theology, was invited to serve on the steering committee for the Society of Biblical Literature's Pastoral Epistles, Hebrews and Apocalypse group.

Abbot Astrik L. Gabriel, director and professor emeritus in the Medieval Institute and director of the Folsom Ambrosiana Collection, was honored by having a book on the founding of the University of Budapest, written by Leslie Domonkos, a professor of Ohio State University and former student of Gabriel, dedicated to him.

Maureen T. Hallinan, White professor of sociology and director of the Institute for Educational Initiatives, was appointed to the advisory board of the Alliance for Catholic Education, Executive Committee, 1997-2000. She was appointed advisory editor of *Encyclopedia of Sociology 2000*. She was elected to Alpha Kappa Delta, the International Sociology Honor Society on April 29.

Janis L. Johnston, librarian and associate director of the Kresge Law Library, has been elected treasurer of the American Association of Law Libraries.

Activities

Peri E. Arnold, professor of government and international studies, director of the Hesburgh Program in Public Service and director of the Washington Program, presented the paper "A Weak State at War: The United States in World War I" at the meeting of the Administrative History Working Group of the International Institute of Administrative Sciences at the Archives of Corfu in Corfu, Greece, March 28-29.

Theodore J. Cachey Jr., associate professor of Romance languages and literatures and director of the Devers Program, presented the paper "Petrarch and the Po" at the annual meeting of the American Association of Italian Studies in Chicago, Ill., April 3-5.

Charles Craypo, professor of economics and fellow in the Kellogg Institute, presented the paper "Post-Industrial Job Structuring and the Working Poor" with David Cormier at the annual meeting of the Eastern Economics Association in New York, N.Y., Feb. 27. He spoke on "What Can the Private Sector Do? Constraints on Unions and Industries" at the Harvard Labor Leadership Forum, John F. Kennedy School of Government, Cambridge, Mass., Feb. 10.

Lawrence S. Cunningham, professor of theology, gave the talk "Christian Discernment" at the Center for Social Concerns, Notre Dame, Ind., Feb. 26. He gave the Hesburgh Lecture "Leaving the Church: Causes and Concerns" to the Northern New Jersey Alumni Association in Summit, N.J., March 4. He gave the keynote address "The Church and the New Millennium" at Benziger Catechesis Conference in La Jolla, Calif., March 8. He lectured on "Editing the Merton Journals" at the Thomas Merton Society of England and Ireland in Oakham, England, March 27.

Roberto A. DaMatta, Joyce professor of anthropology, gave the keynote conference "Reflections on the Brazilian Modernity" at the 21st meeting of the Brazilian Anthropological Association, Vitória, Espírito Santo State, Brazil, April 8.

Fabio B. Dasilva, professor of sociology, presented a paper "Maurice Merleau Ponty and Paul Cezanne: On the Phenomenology of Seeing" and was a discussant of a session on Sociology and Phenomenology at the annual meeting of the Midwest Sociology Society in Kansas City, Mo., April 2.

Julia V. Douthwaite, professor of Romance languages and literatures, presented the paper "Ethnographic Fictions: The Iconography of Exotics and Human *Curiosités*," chaired the session "Significant Books on Women and Science," served as moderator for the lecture "Rousseau and Humanism" given by Tzvetan Todorov from the Centre National de la Recherche Scientifique of Paris, France, and served as the co-chair for organization with **Christopher Fox**, associate dean and professor of English, at the 29th annual meeting of the American Society for Eighteenth-Century Studies held at the University of Notre Dame, Notre Dame, Ind., April 1-5.

Kevin C. Dreyer, associate professional specialist in film, television and theatre, designed the lighting for the Southold Dance Theater's production of the Nutcracker Ballet in December.

Richard M. Economakis, assistant professor of architecture, introduced the keynote speaker Leon Krier and architect John Simpson at the "Other Modern" symposium held at the Prince of Wales' Institute of Architecture in London, England, Feb. 20.

Leonid Faybusovich, associate professor of mathematics, presented the invited talk "Interior-point Algorithms and Numerical Integration of Affine-scaling Vector Fields" at the Applied and Interdisciplinary Mathematics Seminar at the University of Michigan in Ann Arbor, Mich., April 6.

Maureen T. Hallinan, White professor of sociology and director of the Institute for Educational Initiatives, presented the paper "Educational Reform and the Organization of Schools" at Equality Studies Centre, University College Dublin, Dublin, Ireland, Jan. 5. She was a discussant on the "Women and Leadership" panel at the Notre Dame Graduate Student Gender Conference titled Gender Across the Disciplines: Race and Culture Across Societies in Notre Dame, Ind., March 1. She presented the invited paper "Social Science Findings Related to Diversity in Education" at Twenty Years After Bakke: The Law and Social Science of Affirmative Action in Higher Education at Ohio State University in Columbus, Ohio, April 3. Hallinan was the invited speaker at Alpha Kappa Delta, International Sociology Honor Society, Notre Dame, Ind., April 29. She is the external assessor of "Faculty Appointments in Education Studies" at the Universities of Agriculture, Malaysia, through 1999. She organized the session "Contemporary Educational Reform and Equality for Educational Opportunity" for the American Sociological Association meetings in San Francisco, Calif.

Howard T. Hanson, associate professional specialist in the Graduate School, chaired the session Managing Small Technology Transfer Offices at the national convention for the Association of University Technology Managers in San Antonio, Tex., Feb. 27.

Peaches M. Henry, assistant professor of English, presented the paper "Recuperating Victorian Female Intellectuals for the Brit Lit Survey" at the seventh annual conference on Eighteenth- and Nineteenth-Century British Women Writers at the University of North Carolina in Chapel Hill, N.C., March 27.

Carlos Jerez-Farrán, associate professor of Romance languages and literatures, presented "Amor caballos y muerte en el teatro neoyorquino de Garcíá Lorca" and chaired "Crítica y pensamiento feminista" at the Asociación de Licenciados y Doctores Españoles en los Estados Unidos in San Juan, Puerto Rico, March 27.

Jeanne Halgren Kilde, assistant professor of American studies, presented a paper titled "The Body and Religious Space: Sacralizing Physicality in Turn of the Century Religious Architecture" at the Organization of American Historians annual conference in Indianapolis, Ind., April 5. She presented commentary on a session titled "Memory and Place" and organized and chaired "A Special Film Presentation: *Claiming Open Spaces* with Filmmaker Austin Allen" at the Great Lakes American Studies Association annual conference in Oxford, Ohio.

Douglas W. Kmiec, professor of law, gave the keynote dinner speech "The Family and Community" at the Long Beach Convention Center, Nov. He was the invited commentator at the Donner Conference on Community Associations in Washington, D.C., Dec. He was an invited participant at the Liberty Fund Conference on Tocqueville and American Federalism in Captiva, Fla., Jan. He presented "Thomas Aquinas and Catholic Natural Law" at the Law and Morality Seminar in Pepperdine, Calif., Feb. He gave the G.K. Chesterton Society Lecture "The Natural Law and Constitutional Interpretation" at Princeton University, Princeton, N.J., Feb. He gave the keynote address "The Law of the Declaration and the Law of the Constitution" at the Ethics and Public Policy Center in Washington, D.C., March. He debated school vouchers on the television show *Firing Line*, as part of its "Debates; Debates" series, PBS-New York, April 9. He served as moderator at the Pepperdine Entertainment Law Symposium on Media and Privacy at Pepperdine University in Pepperdine, Calif., May 7. He presented "The Optimism of Self-Evident Truth" at the Malibu Optimist Club, May. He gave the invited presentation "No 'wall of separation' between family faith and education — the case for even-handed funding of all schools — public and private" at the Religion and Public Policy Conference at the Pepperdine University School of Public Policy Symposium in Pepperdine, Calif., May. He gave the presentation "The Empirical Advantages of Private Education and Public Funding of Private Schools" in

Colorado Springs, Colo., May. He debated the issue of executive privilege on the *Lehrer NewsHour*, March. He discussed constitutional questions regarding the independent counsel investigations on MSNBC. He discussed the Clinton v. Jones case on Warren Olney's "Which Way LA." He discussed cultural issues and the revival of federalism on Peter Ford's KIEV radio program.

Michael N. Lykoudis, assistant chairperson and associate professor of architecture, presented the lecture "The Three Typologies of the City" at the conference "The Future of the City" at the Palazzo Cuttica, Alessandria, Italy, March 21.

Edward J. Maginn, assistant professor of chemical engineering, gave the invited lecture "Molecular Simulations of Polar Polymers" for the Macromolecules Seminar Series to the Department of Chemistry at the University of Wisconsin in Madison, Wis., April 6.

James J. Mason, assistant professor of aerospace and mechanical engineering, presented the invited talk "Stress Intensity Factor as a Shear Localization Criterion" at Duke University in Durham, N.C., March 11.

A. James McAdams, chairperson and professor of government and international studies, gave the invited lecture "Public Officials as Historians: The Debates Over the Stasi Files" at the University of California in Berkeley, Calif., March 12; and at Stanford University in Palo Alto, Calif., March 13.

Thomas V. Merluzzi, associate professor of psychology, presented the paper "The Impact of Self-Efficacy for Coping on the Survival of Persons with Cancer" at the annual meeting of the Society of Behavioral Medicine in New Orleans, La., March 27.

Peter R. Moody, professor of government and international studies and fellow in the Kellogg Institute, participated in the seminar "Asia 2020" which was a part of a series of "The Next Agenda" seminars at the Hudson Institute, March 4.

Stephen R. Moriarty, assistant professional specialist in the Snite Museum of Art and concurrent assistant professor of art, art history and design, delivered the slide lecture "Images of Violence and Peace" at the conference "Talking Across Boundaries: Cultures of Violence, Cultures of Peace" sponsored by the Kroc Institute held at the University of Notre Dame, Notre Dame, Ind., April 4.

Alven M. Neiman, assistant dean and concurrent associate professor of the core course, delivered the paper "Spirituality, Redemption and Education in the Wasteland of Technopoly" at the 1998 annual meeting of the Philosophy of Education Society in Cambridge, Mass., March 26-31. He organized the symposium "Spiritual Education and the Crisis of the Fourth Great Awakening" in Cambridge, Mass.

Carolyn Nordstrom, associate professor of anthropology and fellow in the Kroc Institute, presented "Peace Research and the Study of Violence: Contributions from Ethnographic Work in War Zones" at the meeting of the International Studies Association, Minneapolis, Minn., March 18-21. She gave the invited presentation "Out of the Shadows: Post-War Transformations and Extra-Local Realities" at the meeting of the State Government and International Intervention in Africa in Florence, Italy, March 28-29. She co-organized the conference "Talking Across Boundaries: Cultures of Violence, Cultures of Peace" with **Ruthann K. Johansen**, professional specialist and concurrent professor in the arts and letters core course and fellow in the Kroc Institute, at the University of Notre Dame, Notre Dame, Ind., April 3-4.

Rev. Thomas O'Meara, O.P., Warren professor of theology, gave the lecture "Tarzan, Las Casas and Rahner. Thomas Aquinas' Theology of Wider Grace" and the seminar "Thomas Aquinas' Theology Today" at the Aquinas Institute in St. Louis, Mo., Jan. 29-30. He gave the sermon "The Journey of Thomas Aquinas and Our Journeys" at the inauguration of the Hank-Aquinas Chair in Theology of Saint Mary's College, Notre Dame,

Ind., Feb. 7. He led the study session "Thomas Aquinas' Theology in the Past and the Present" at the Priory of St. Thomas Aquinas in River Forest, Ill., Feb. 24. He gave the seminar "One Church and Many Ministries" at the Diocese of Des Moines, Des Moines, Iowa, March 7. He presented the annual lecture on religion and culture "Religion Beyond the Year 2000: The Millennium, World Religions, Extraterrestrials" at the University of Arizona in Tucson, Ariz., March 10. He gave the lecture "The Crucified Jesus: Victim or Liberator?" for the endowed Lenten series at Saint Mary's College, Notre Dame, Ind., March 26.

Charles M. Rosenberg, professor of art, art history and design, chaired the session "Monstrosities, Misattribution and Money Well Spent — An Art Historical Miscellany" at the annual meetings of the Renaissance Society of America, College Park, Md., March 27.

Valerie Sayers, professor of English, was interviewed and an excerpt from her novel *Brain Fever* appeared in the current edition of *arts.community*, the on-line magazine of the National Endowment for the Arts at <http://arts.endow.gov/>.

Billie F. Spencer Jr., professor of civil engineering and geological sciences, presented the seminar "Seismic Application of Smart Materials: A New Approach to Protecting Structures" in the School of Engineering and Applied Sciences at George Washington University in Washington, D.C., March 25.

Anthony M. Trozzolo, assistant dean of science and Huisking professor emeritus of chemistry and biochemistry, presented the invited talk "Light and Chemistry" at the Forever Learning Institute, South Bend, Ind., April 1.

Eugene C. Ulrich, professor of theology, presented the lecture "The Scrolls, the Scriptures, and the Canon" at the Vancouver Theological Colloquium, Vancouver, British Columbia, Canada, March 30. He gave the lectures "The Scrolls and the Septuagint of Isaiah" and "The Scriptures at the Time of Christ and Hillel" at Trinity Western University in Langley, British Columbia, Canada, March 31-April 1.

Barbara E. Walvoord, director and professional specialist in the Kaneb Center, presented the workshop "Using the Grading Process for Assessment" at the national conference of American Association for Higher Education in Atlanta, Ga., March 22. She presented a workshop at the annual conference of the North Central Association of Schools and Colleges in Chicago, Ill., March 30. She led workshops on teaching at the University of Missouri, Columbia, Miss., March 13; at Pennsylvania State University, University Park, Pa., March 19; at Indiana University, South Bend, Ind., March 26; at Southeastern Oklahoma State University, Okla., March 27; at the Illinois Institute of Technology, Chicago, Ill., April 2; and at St. Xavier College, Evergreen Park, Ill., April 3.

Rev. Oliver F. Williams C.S.C., associate professor of management and director for the Center for Ethics and Religious Values in Business, was an invited participant at the conference on Business and Church sponsored by the Institute for the Study of Economic Culture at Boston University in Boston, Mass., Jan. 26. He delivered the presentations "Being a Christian in the Business World" and "Ethics in the Marketplace" as the Prince-Chavanne Distinguished Lecturer at Houston Baptist University in Houston, Tex., Feb. 11-12. He delivered the annual Gannon Ryan Lecture "Catholic Social Teaching: The Challenge and the Promise for the Business World" and conducted a seminar for the administration on "The Strengths of an Academic Code of Honor" at Syracuse University in Syracuse, N.Y., Feb. 27-28. He gave the invited lecture "Catholic Social Teaching and Contemporary Business in the Global Economy" to the Business Partners Program of Loyola University and presented the seminar on "Integrating Catholic Social Teaching into the Business Curriculum" to the faculty at Loyola University in New Orleans, La., March 13. He gave the presentation "South Africa: Vision of the Future" to the Albuquerque Committee on Foreign Relations in Albuquerque, N.Mex., March 25. He presented "Business Ethics and Church Teaching" to *Legatus*, Rockford, Ill., April 1.

Publications

Matthew J. Barrett, associate professor of law, co-authored "Agency Authority in LLC Statutes (Part 1): Uniformity and Peculiarity" with Brian H. Blaney published in *Journal of Limited Liability Companies*, vol. 4, no. 4, Spring 1998, pages 139-147.

John J. Bentley, assistant professional specialist in the Radiation Laboratory, and **Daniel M. Chipman**, associate director and professional specialist in the Radiation Laboratory, co-authored "Volume Polarization in Reaction Field Theory" with Chang-Guo Zhan, published in *The Journal of Chemical Physics*, vol. 108, no. 1, 1998, pages 177-192.

Theodore J. Cachey Jr., associate professor of Romance languages and literatures and director of the Devers Program, wrote "Peregrinus (quasi) ubique: Petrarca e la storia del viaggio" published in *Intersezioni: Rivista di Storia delle Idee*, vol. XVII, Dec. 1997, pages 369-384.

Francis J. Castellino, dean of science, Kleiderer-Pezold professor of biochemistry and director of the Center for Transgene Research, co-authored "The Roles of Individual γ -Carboxylglutamate Residues in the Solution Structure and Cation-dependent Properties of Conantokin-T" with Scott E. Warder, Mary Prorok, Zhigang Chen, Leping Li, Yi Zhu, Lee G. Pedersen and Feng Ni, published in *The Journal of Biological Chemistry*, vol. 273, 1998, pages 7512-7522.

Daniel M. Chipman, associate director and professional specialist in the Radiation Laboratory, co-authored "Effect of Hydrogen Bonding on the Vibrations of *p*-benzosemiquinone Radical Anion" with Chang-Guo Zhan, published in *The Journal of Physical Chemistry*, vol. 102, no. 7, 1998, pages 1230-1235.

Peter Cholak, McAndrews assistant professor of mathematics, co-authored "Intervals Without Critical Triples" with R. Shore and R. Downey, published in *Logic Colloquium '95, Proceedings of the Annual European Summer Meeting of the Association of Symbolic Logic*, held in Haifa, Israel, August 9-18, 1995, edited by Johann A. Makowsky and Elena V. Ravve, published in *Lecture Notes in Logic*, Heidelberg, Berlin: Springer-Verlag, 1998, pages 17-43.

Lawrence S. Cunningham, professor of theology, wrote "Doctors of the Church" published in *U.S. Catholic*, vol. 63, April 1998, pages 17-22. He wrote "Religion Book Notes" published in *Commonweal*, vol. CXXV, March 27, 1998, pages 27-29.

James T. Cushing, professor of physics, wrote "Review of Newton's *The Truth of Science*" published in *Physics Today*, vol. 51, no. 4, April 1998, page 66.

Roberto DaMatta, Joyce professor of anthropology, wrote the essay "A Mensagem das Festas: O Sistema Ritual e a Identidade Brasileira" published in *Sexta-Feira: Review of Anthropology and Humanities*, no. 2, April 1998, São Paulo, pages 62-81.

William G. Dwyer, Hank professor of mathematics, co-authored "Homotopy Fixed Points for Cyclic *p*-Group Actions" with J.M. Moller and communicated by Thomas Goodwillie, published in *Proceedings of the American Mathematical Society*, vol. 125, no. 12, 1997, pages 3735-3739.

Thomas P. Fehlner, Grace-Rupley professor of chemistry and biochemistry, wrote "A Molecular Orbit Analysis of Four Chromoboranes on the Curious Behavior of $(\eta^5\text{-C}_5\text{R}_5)\text{Cr}$ Fragments in a Borane Cluster Environment" published in *The Journal of Organometallic Chemistry*, vol. 530, 1998, pages 21-27.

Denis A. Goulet, O'Neill professor in education for justice, economics department, wrote "Commodity and Paradigm" published in *People's Participation, Challenges Ahead*, edited by Orlando Fals Borda, Bogotá, Columbia: Tercer Mundo, S.A., 1998, pages 230-231.

Maureen T. Hallinan, White professor of sociology and director of the Institute for Educational Initiatives, wrote "A Sociological Perspective on Social Issues" published in *The American Sociologist*, vol. 28, no. 1, 1997, pages 5-14. She wrote "Foundations of School Choice" and "School and Classroom Dynamics" published in *Education: The Complete Encyclopedia* (CD-ROM) edited by Husen, Torsten and T.N. Postlewaite, Oxford, United Kingdom: Pergamon Press, Elsevier Science, 1998. She wrote "Sociology and the Goal of Generalization" published in *Contemporary Sociology*, vol. 27, no. 1, 1998, pages 21-24.

Gregory V. Hartland, assistant professor of chemistry and biochemistry, co-authored "Ultrafast Study of Electron-phonon Coupling in Colloidal Gold Particles" with José Hodak and Ignacio Martini, published in *Chemical Physical Letters*, vol. 284, 1997, pages 135-141.

Carlos Jerez-Farrán, associate professor of Romance languages and literatures, wrote "García Lorca y El Paseo de Buster Keaton: Alegoría del Amor Homosexual Sublimado" published in *Romantic Review*, vol. 85, no. 3, 1997, pages 629-655.

Encarnación Juárez, visiting assistant professor of Romance languages and literatures, wrote "La mujer militar en la América colonial: El caso de la Monja Alférez" published in *Indiana Journal of Hispanic Literature*, vol. 10-11, 1997, pages 147-164.

Ahsan Kareem, professor of civil engineering and geological sciences, co-authored "Application of Damping Systems in Tall Buildings" with Y. Tamura, published in *Proceedings of the Structure of Congress XV, ASCE, Portland, Oregon*, 1997. He co-authored "Simulation of Non-Gaussian Random Processes" with K. Gurley, published in *Proceedings of the Joint ASME and SES Mechanics Conference (McNU'97)*, Evanston, Illinois, 1997. He co-authored "The Effects of Turbulence on Long-Span Bridges" with F. Haan Jr. and **Alvin A. Szewczyk**, professor of aerospace and mechanical engineer-

ing, "Interference Effects for a Group of Finite Cylinders" with T. Kijewski and P.-C. Lu, "Aerodynamics of TV Towers: Nanjing Tower a Case Study" with S. Kabat and F. Haan Jr., "Parametric Study of Flow Around Rectangular Prisms Using LES" with D. Yu, "On the Formulation of ASCE7-95 Gust Effect Factor" with G. Solari, and "A Conditional Simulation of Non-Normal Velocity/Pressure Fields" with K. Gurley, published on CD-ROM and extended abstract for the *Proceedings of the Eight U.S. National Conference on Wind Engineering*, Johns Hopkins University, Baltimore, Md., 1997.

Gyula Klima, associate professor of philosophy, wrote "What Can a Scholastic Do in the 21st Century?" published in *Budapest Review of Books*, vol. 7, 1998, pages 167-169.

Warren N. Kubitschek, assistant professional specialist in the Laboratory for Social Research, and **Maureen T. Hallinan**, White professor of sociology and director of the Institute for Educational Initiatives, co-authored "Tracking and Students' Friendships" published in *Social Psychology Quarterly*, vol. 61, no. 1, 1998, pages 1-15.

Charles F. Kulpa, professor of biological sciences, co-authored "Anaerobic Biodegradation of Explosives and Related Compounds by Sulfate-Reducing and Methanogenic Bacteria: A Review" with Ramaraj Boopathy and John Manning, published in *Bioresource Technology*, vol. 63, 1998, pages 81-89.

Anthony N. Michel, McCloskey dean of engineering and Freimann professor of electrical engineering, co-authored "Global Stability of a Class of Feedback Neural Networks with an Application to Optimization Problems" with Zhaoshu Feng, published in *Circuits, Systems, and Signal Processing*, vol. 17, no. 2, 1998, pages 219-241. He co-authored "Stability Theory for Hybrid Dynamical Systems" with Hui Ye and Ling Hou, published in *IEEE Transactions on Automatic Control*, vol. 43, no. 4, April 1998, pages 461-474.

Alven M. Neiman, assistant dean and concurrent associate professor in the arts and letters core course and fellow in the Kroc Institute, wrote "Teaching and Eternal Life: The Love of Learning and the Desire for God" published in *Philosophy of Education* 1997, edited by Susan Laird, Urbana-Champaign, Ill.: The Philosophy of Education Society and the University of Illinois, 1998, pages 456-460.

Carolyn Nordstrom, associate professor of anthropology and fellow in the Kroc Institute, wrote "Deadly Myths of Aggression" published in *Aggressive Behavior*, vol. 24, no. 2, 1998, pages 147-159.

Valerie Sayers, professor of English, wrote a review of *Easter Lilly* by Tom Wicker published in *Washington Post Book World*, Feb. 22, 1998. She wrote a review of *Cavedweller* by Dorothy Allison published in *New York Times Book Review*, March 15, 1998.

Steven R. Schmid, assistant professor of aerospace and mechanical engineering, co-authored "Simulation of Asperity Scope Part I: Experimental and Theoretical Methods" and "Simulation of Asperity Plowing in an Atomic Force Microscope Part II: Plowing of Aluminum Alloys" with L.G. Hector, published in *Wear*, vol. 215, 1998, pages 247-256, 257-266.

Slavi C. Sevov, assistant professor of chemistry and biochemistry, co-authored "Synthesis and Structure of Isolated Silicon Clusters of Nine Atoms" with Virginie Queneau and Evgeny Todorov, published in *Journal of the American Chemical Society*, vol. 120, 1997, pages 3263-3264.

Thomas L. Shaffer, Short professor of law, co-authored *Property Law — Cases, Materials, and Problems* with Sandra H. Johnson, Peter W. Salsich and Michael Brannstein, St. Paul, Minn.: West Publishing Company, 1998, 923 pages.

Bradley D. Smith, assistant professor of chemistry and biochemistry, co-authored "Fluorescence Sensing due to Allosteric Switching of Pyrene

Functionalized *cis*-cyclohexane-1,3-dicarboxylate" with Carol Monahan and Jeffery T. Bien, published in *Chemical Communications*, 1998, pages 431-432.

William C. Strieder, professor of chemical engineering, co-authored "Competitive Diffusion into Two Sinks with a Finite Surface Reaction Coefficient" with G. Zoia, published in *Journal of Chemical Physics*, vol. 8, no. 108, 1998, pages 3114-3118.

Steve Tomasula, assistant professional specialist in English, wrote the essay "Art in the Age of the Individual's Mechanical Reproduction" published in *New Art Examiner*, vol. 25, no. 7, April 1998, pages 18-23. He wrote a review of Rikki Ducornet's novel *The Word "Desire"* published in *The Review of Contemporary Fiction*, vol. 28, no. 1, spring 1998, pages 222-223. The first part of his novella "The [Sketch] Book of Portraiture [Restored Volume] by Diego de Velázquez, Painter and Courtier [Hopeful] as Written by Himself Near the End of a Long and Distinguished Career" was published in *Eratica*, vol. 3, no. 1, winter 1998, pages 29-44.

Eugene C. Ulrich, professor of theology, wrote "The Relevance of the Dead Sea Scrolls for Hexaplaric Studies" published *Origen's Hexapla and the Fragments: Papers Presented at the Rich Seminar on the Hexapla, Oxford Centre for Hebrew and Jewish Studies, 25th July - 3rd August 1994*, published in the series *Texte und Studien zum Antiken Judentum* 58 edited by Alison Salvesen, Tübingen, Germany: Mohr Siebeck, 1998, pages 401-407. He wrote "Raamatun Muotoutuminen Qumranin Kirjoitusten Valossa" (The Bible in the Making: The Scripture at Qumran) published in *Teologinen Aikakauskirja-Teologisk Tidskrift*, vol. 102, 1997, pages 316-326.

Arvind Varma, Schmitt professor of chemical engineering, and **William C. Strieder**, professor of chemical engineering, co-authored "Reaction Bonded Silicon Nitride Synthesis: Experiments and Model" with M. Maalmi, published in *Chemical Engineering Science*, vol. 53, no. 4, 1998, pages 679-689.

Rev. Oliver F. Williams, C.S.C., associate professor of management and director for the Center for Ethics and Religious Values in Business, wrote "Catholic Social Teaching: A Moral Compass for the Next Millennium" published in *Review of Business*, vol. 19, no. 1, 1998, pages 15-21. He wrote "The Challenge: Envisioning the Good Life," *Other People's Money: A Study in Self-Deception* and edited *The Moral Imagination: How Literature and Films Can Stimulate Ethical Reflection in the Business World*, Notre Dame, Ind.: University of Notre Dame Press, 1998, pages 1-15, 71-82, viii, 210 pages.

Deaths

A. Brian Aikins, adjunct instructor of marketing, April 12. Aikins was a member of the Notre Dame faculty since 1994, and a partner and owner in two area businesses at the time of his death. He and Robert Drevs, adjunct associate professor of marketing, were partners in Shamrock Network Design, an interactive marketing communications company in South Bend. Aikins also owned Custom Formulated Blending, a chemical manufacturing company in Bristol. He previously was co-founder, chairman and chief executive officer of Oak International, a chemical blending firm located in Sturgis, Mich., from 1973 to 1990. He worked as a sales and marketing manager for Witco Chemical Corp. from 1963 to 1973 and for Hoffman LaRoche, Inc., from 1959 to 1963. Aikins was a past president of the Senior Council of Retired Executives in South Bend and served as an advisor for the Notre Dame Council for International Business Development. He earned a bachelor's degree in chemistry in 1958 and a master's degree in health education in 1959 from George Williams College in Chicago.

Documentation

270th Graduate Council Minutes

March 4, 1998

Members present: James L. Merz, chair; Terrence J. Akai, Ani Aprahamian, Gail Bederman, Peter Diffley, William G. Dwyer, Teresa Ghilarducci, Don Howard, Anthony K. Hyder, Lloyd Ketchum, Richard A. Lamanna, Thomas L. Nowak, James H. Powell, Mark W. Roche, Gregory E. Sterling, Edward J. Stech, Barbara M. Turpin, James H. Walton, Chris R. VandenBossche, Jennifer A. Younger

Members absent and excused: Joan F. Brennecke, Joseph A. Buttigieg, Edward J. Conlon, Suzanne M. Coshaw, Donald P. Kommers, Anthony N. Michel, Arvind Varma

Observers: Janice Poorman, Diane R. Wilson

Guests: Steven Buechler (for Francis J. Castellino), Brian T. Lohr (for Carolyn Y. Woo), Nazareno L. Rapagnani

Prof. Merz, vice president for graduate studies and research, called the meeting to order at 3:30 p.m. and asked Dr. Janice Poorman to begin the session with a prayer.

I. Minutes of the 269th Graduate Council Meeting

The minutes of the 269th Graduate Council meeting were corrected with an addition provided by Prof. Bederman. The following statement will be included with the discussion of the spiritual component of the ACE program.

"Exception was taken to the idea that a graduate program should include any spiritual directives or requirements and clarification was requested. We were assured that no such directives were part of the ACE project, but that each individual student was encouraged to follow her or his own spiritual path."

II. Electronic Services: On-line Graduate Applications

Prof. Merz began the discussion by introducing Dr. Larry Rapagnani, assistant provost for information technologies. Prof. Merz stated that three major initiatives being explored by the Graduate School will be discussed. The electronic submission of research grant applications will be dealt with at the April meeting. On-line applications for admission to the Graduate School and electronic submission and storage of theses and dissertations will be addressed at this meeting.

Prof. Akai began the discussion of electronic submission of graduate applications. He stated that to meet expectations of future applicants, this project was initiated two years ago and is in its third design iteration. The electronic application was demonstrated to the Notre Dame community last January, will be field tested in April, and hopefully be ready for access by 1999 graduate applicants. The electronic application was developed "in house" because interface with the Notre Dame administrative database is essential. Therefore, many hours were needed to develop a printable, retrievable and secure document that will have few errors and can be directly loaded into our corporate database on the central HP system.

This on-line service will make access to and completion of the application easier for the student. It will also reduce the cost of printing and mailing of the paper form. However, new costs and problems are associated with the electronic application because additional time will be required to match the application to letters of reference and transcripts. The number of spurious applications may also increase and the pre-application process used by departments to screen potential graduate students may be unintentionally circumvented. Therefore, stricter policies for handling applications will have to be implemented to prevent abuses.

Prof. Akai ended his presentation with a series of questions for the Office of Information Technologies (OIT) to consider. Has OIT made moves

beyond its programming function to that of consultation, coordination and design? After the electronic application and similar tools are developed, who is responsible for their maintenance and revision? Is there a sufficient budget for obtaining the necessary hardware for running these applications? Who is paying attention to aesthetics and performance of all our web offerings? Can OIT assist in coordinating departmental-graduate school interactions involved with the entire application process, and train departmental support staff?

Dr. Rapagnani responded as follows. With regard to the interface between the web-based graduate application and the HP system, it is difficult because this hasn't been done before. Producing a web application is relatively easy; interfacing it to corporate data (HP) is very difficult. Providing for storage of an incomplete graduate school application and developing the link between the web and the corporate database are much more difficult. The problems of standardization, storage and retrievability of the application were solved and the software that links the web to HP is new and on its "maiden voyage." Once the technical problems are overcome in this particular circumstance, the process of downloading electronic undergraduate, summer school and professional school applications will be easier.

This effort to connect the HP with web-based applications is not wasted; there is not enough reason to spend the \$30 to \$90 million needed to replace the current system. Our environment is Year 2000 compliant and currently supports 45 different systems into its integrated database.

Dr. Rapagnani then asked why, in the interest of reducing spurious applications, the application fee could not be paid by credit card number as is the case with most web-business transactions? Prof. Akai answered that the University must first determine if the cost associated with this service is warranted. A question was raised concerning electronic submission of letters of reference. Prof. Akai said that authentication is currently not pos-

sible; therefore, reference letters are only accepted through the mail.

With regard to the other questions regarding the structure and function of OIT, Dr. Rapagnani stated that the ultimate goal is to electronically process most forms from the sender through the corporate database and to the receiver. Such a goal requires new business rules, processes and structures. The OIT is moving from a technological monopoly to a consulting service. This transformation will take 12 to 18 months to complete. After restructuring, it will be possible to send personnel out to academic units to learn about their procedures and functions. The consultants may then be able to offer quicker and more efficient business processes. The AIS team will be responsible for maintenance and revision of applications as well as consulting with and training departmental personnel.

A second goal of the new OIT is to teach users that advances and uses of technology never have been free. Therefore, any new OIT-academic department ventures should include joint requests for necessary personnel, hardware, and/or software.

As for web management, Dr. Rapagnani stated that there is currently no one administrator tasked with that duty at Notre Dame. Funding has just been authorized and the job opening will be posted soon for the ND web administrator.

III. Electronic Services: On-Line Theses and Dissertations

Barbara Turpin introduced the topic with a synopsis of a recent on-line colloquy that was presented on the *Chronicle of Higher Education* web site. Virginia Tech is aggressively promoting a plan to rethink the way graduate students present their work and to make that work more important to the research community. Therefore, for the past year the university has required its students to submit theses and dissertations in digital form. The idea is to create a database on the WWW to provide free, instantaneous

access to the students' research. So far, Virginia Tech has 600 theses and dissertations on line. It wants to expand its digital library to include student work from other institutions. Corporate and federal sponsors have supplied over 1.2 million dollars for this project and 21 universities have signed on. However, currently only Virginia Tech and West Virginia University make the electronic submission of theses and dissertations a requirement.

In the on-line colloquy, advocates of electronic submission claim that: (1) new media (sound, video) can now be included with the written work; (2) library shelf space will be liberated; (3) students will learn new computer skills; (4) review processes will be tightened and improved with input from off-campus experts; (5) it's cheaper than paper publication; (6) it's easier to search digital documents for specific information; and (7) it breaks the monopoly that publishers and printed publications have over libraries, academic careers and our perceptions of acceptable scholarly activity.

Those who argued against electronic theses and dissertations claimed that: (1) the problem of access will not be solved without a means to find the documents; (2) the research lacks peer review; (3) students will have to learn how to format their work for electronic submission; (4) with the pace of technological advance, there is no guarantee that the material will be accessible in the distant future; (5) it raises the unresolved issue of intellectual property rights on the web; and (6) it may hamper students' publication opportunities in journals.

Point number (6) is by far the most serious objection. Various professional societies (e.g., the American Chemical Society and the American Society for Microbiology) have policies against publishing material on the network because they consider it "prior publication" or "not peer-reviewed." Virginia Tech's response to this concern is to allow three levels of access determined by the student: unlimited, limited to campus or prohibited.

Members of the Graduate Council added their own comments.

- In order to put theses and dissertations on line, students will have to learn PDF which is not a trivial undertaking. A full-time administrator may have to be hired to assist in the matter.

- On-line intellectual property rights is a serious problem. Scientists and engineers may not be able to publish articles in journals and arts and letters students may not find publishers for books. Furthermore, if the information can be accessed on the web for free, students will lose royalty revenue from the sale of their dissertations by UMI.

- Putting dissertation abstracts on departmental home pages is a good way to advertise to potential students what scholarly activities are currently being undertaken.

- Electronic submission of student work will not eliminate all paper since the Graduate School, the library and dissertation examination committee members may still require paper copies.

Professor Merz officially adjourned the meeting at 5 p.m. but members continued to discuss the new electronic initiatives informally.

University Committee on Libraries

March 18, 1998

The meeting was called to order at 7:30 a.m. in the Council Room at the Morris Inn by Chairman John Halloran. In attendance were John Adams, Harvey Bender, Maureen Boulton, Robert Coleman, Alan Krieger, Larry Rapagnani, Steven Schmid, Laurence Taylor, Jennifer Younger and secretary Melodie Eiteljorge.

The minutes of the meeting of February 11, 1998, were approved as written.

Younger provided an update on the libraries' migration to a new on-line system. She reported that five library representatives would fly to Israel later in the week to work with programmers on development. The Migration Task Force has changed the timetable with regard to implementation. They decided that June is not possible and that the first week of August (post-summer session) should be the target. That will still leave two weeks before classes begin.

Younger reported also that the libraries have not yet implemented the changes in the circulation of serials discussed at previous meetings.

Architects from Shepley Bulfinch Richardson and Abbott will visit campus on April 27 and 28. They will not be able to meet with the University Committee on Libraries at that time. They will meet with the provost, the deans and some of the officers to consider issues and the process for determining the kind of library needed by Notre Dame. On the second day they will meet with the Library Program Planning Committee, one of two groups being formed to work on the project.

The Library Program Planning Committee will be a small working group, including the director, the architects,

Paula Carlacchini, who will serve as the project manager from facilities engineering, and a few representatives from the libraries. A second, larger group will begin meeting in the fall to provide direction to the working group. This will include University faculty members, students, the libraries' assistant directors and perhaps others.

At the end of the next academic year (spring 1999), we will have a master plan in place. Once that plan and the budget are approved, the architects will begin construction drawings, which should be completed by May 2000. Reconstruction could begin as early as July 2000.

Halloran asked how this fits in with the enhancement funds that were provided as a result of the Colloquy. Younger replied that it is separate.

Bender noted that there should be a University Committee on Libraries representative on the Library Planning Advisory Committee. Also, he recalled that the dedication of the Memorial Library (now Hesburgh Library) was very impressive and that guests and clergy from all over the world attended. He suggested that we might want to start planning early for a rededication. Father Hesburgh might be a good candidate to serve as chair of a subcommittee for that.

With regard to migration, Halloran asked why we needed to send a group to Israel. Younger replied that the system is primarily in Israel and Europe. We are the first major U.S. library to acquire Ex Libris, and we handle acquisitions and system control differently than European libraries. The programmers are based in Jerusalem, and we determined that it would be better for us to send people there than to bring the programmers here. The purpose of the visit is to assist in development work. Younger noted that we have been impressed with their programming to this point. She also noted that some of their development staff have been coming here for visits.

Bender observed that Ex Libris appears to be a good system. He asked if it might be useful to invite them to use Notre Dame as a base for development. Younger replied that we have already done some development here. We were somewhat concerned that they do not have a U.S. base and, thus, will work with them to attract other libraries. They are in the process of setting up a Chicago office and will be bringing in potential buyers.

Bender asked if it might be possible for us to offer short courses and/or seminars for interested parties. Younger replied that she will explore that possibility.

Rapagnani asked if any of the other libraries who were looking at the ALEPH system have signed contracts. Younger replied that Harvard, McGill and Wisconsin are still deciding.

Rapagnani asked if eventually there will be a U.S. users' group. Younger replied that there definitely will be in time. Right now there is an annual meeting in Israel, and Ex Libris will underwrite travel for one attendee from Notre Dame.

In turning back to the issue of space planning, Rapagnani asked about space in the basement of the Hesburgh Library in the interim. Younger replied that non-library office in the basement will be vacated this summer. We can use the offices as they are, or we could tear down some walls and put in some compact shelving, keeping in mind needs for the long-run. We could also put in regular shelving for now. Another option is to put a graduate computer cluster in the basement. In addition, we (along with the Law Library and the University Archives) are looking at a portion of the Aldi facility for possible storage.

Younger next gave an update on the 1998-99 budget. We have turned in the basic budget figures, but we are still in the process of fine tuning. One positive development is that the endowment rate has increased, giving us more income for next year.

With regard to migration, Coleman asked if the new system will affect hardware and the ability of staff to use the system. Younger replied that the new system does require NT capacity. Coleman asked if there are any plans to increase systems staff. Younger replied that we have expanded and that four staff members have been given greater responsibility for computer upkeep. Krieger added that the systems staff have been very busy installing new computers throughout the library for library staff, but that task is almost finished.

Rapagnani noted that any terminals that were directly connected to the IBM mainframe will be obsolete with the new system. Younger added that it is not just computers that are affected. All equipment, e.g., bar code scanners, must be compatible.

Rapagnani asked if there will be an opportunity for interested participants outside the libraries to assist in testing the new system. Younger replied that currently we are in a development/test mode. When we get to the point of stress testing, it might be possible to involve people outside the libraries. She noted also that this system can support multiple databases. It will be possible to use it in other libraries. The Snite Museum would like to provide image displays. The University Archives has also expressed interest.

NEW BUSINESS:

Halloran reported that it is time to appoint a committee to select a Foik Award recipient. The Foik Award is given annually at the president's dinner in May to a library faculty member who has contributed significantly to library service to the Notre Dame community or to the library profession through personal scholarship or involvement in professional associations. The award is named for the Holy Cross priest who served as director of Notre Dame's library from 1912 to 1924 and was a leading figure in the library profession in the first quarter of the 20th century.

Younger explained that the first priority is to find a chair for the committee. Advertisements soliciting nominations will be placed in *Notre Dame Report* and the *Observer*, and a letter will be sent to faculty. These indicate that nominations should be sent directly to the chair.

Halloran agreed to serve as chair for this year's committee. He asked that UCL members consider serving on the committee or forward to him names of individuals who might be willing to serve.

AGENDA: Prices of Academic Journals.

Two handouts were distributed some time back on this issue. One described the SPARC Project, which is a project led by the Association of Research Libraries. The other was from the American Association of Universities.

Younger stated that this issue was raised for awareness of what is taking place. There have been a number of studies over the past 15 years looking at the prices of journals, and the fields of medicine, science and technology are by far the most expensive. Various strategies to deal with this have been tried since the early 1980s, beginning with the cancellation of some journals. As a group, libraries attempted to influence pricing policies of publishers, but results were not good. Thus, we have explored alternatives.

Krieger explained one event which has been significant. The International Society for the Study of European Ideas collaborated with Elsevier to start a journal and then tried to pull away. This caused a legal wrangle. Elsevier refused to part with the name or the journal, *History of European Ideas*. When the society tried to start a successor journal through the MIT University Press, Elsevier objected. At that point a plea was sent for academic institutions to subscribe to the new journal, *The European Legacy*.

Bender asked about the cost of the journals. Krieger replied that the MIT journal is approximately \$265 per year, and the Elsevier journal is over \$500. This is significant in the humanities field.

Younger stated that the Association of Research Libraries is sponsoring SPARC. Seed money is coming from library memberships to hire a business director for the project. The purpose is to facilitate alternative means of journal publishing. University presses are particularly seen as logical players.

Along with this there have been major discussions about copyright. There is a sense that universities need to revisit intellectual property and copyright management. University scholars sell articles to publishers, which university libraries then purchase in the form of journals. This system has worked well, but rapidly escalating journal prices (in scientific, technical and medical areas) suggest new approaches are needed. This is not a simple issue.

Rapagnani suggested that the Coalition for Networked Information (CNI) might be closely aligned with the mission of SPARC. He asked if there has been any consideration of forming a group under CNI. Younger stated that she will inquire about this.

Adams stated that part of the reason Elsevier is so successful is that they give copies to authors and shift the cost to the institutions; and there is no page cost.

Younger pointed out that Elsevier is not the only publisher with high prices, although they are frequently cited as an example.

Taylor observed that there are some free journals available. He suggested that the libraries look into this.

Younger responded that it might be useful to subscribe to some free journals on a trial basis. However, we must take into consideration the processing involved.

Schmid asked if the libraries take into consideration that \$5,000 in one field is not equal to \$5,000 in another field when making budget decisions.

Krieger responded that the Collection Development Committee studies variances and tries to make fair decisions. Of funding allotted for new serials this year, three-fourths went to the sciences.

Younger noted that on a national scale historical data demonstrates that the prices of journals began to squeeze out monographs. Thus, there has been constant shuffling. We try to support all programs, which does mean the dollar allocations must take into account the relative prices of journals in each discipline.

Schmid noted that there are gaps in holdings in engineering. However, he is pleased to once again have a librarian.

Bender noted that matching library funds for research grants would be helpful.

Halloran stated that the main agenda item for the next meeting will be decoupling certification from the publishing process as proposed by the Association of American Universities.

There being no further business, the meeting adjourned at 8:40 a.m.

Respectfully submitted,

Melodie Eiteljorge
Secretary

Awards Received and Proposals Submitted

In the period March 1, 1998, through March 31, 1998

AWARDS RECEIVED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	10	805,475	17	1,755,468	27	2,560,943
Facilities and Equipment	0	0	1	250,000	1	250,000
Instructional Programs	0	0	1	20,000	1	20,000
Service Programs	0	0	0	0	0	0
Other Programs	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total	10	805,475	19	2,025,468	29	2,830,943

PROPOSALS SUBMITTED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	5	1,079,541	17	2,875,366	22	3,954,907
Facilities and Equipment	0	0	1	371,300	1	371,300
Instructional Programs	0	0	0	0	0	0
Service Programs	0	0	0	0	0	0
Other Programs	<u>1</u>	<u>56,000</u>	<u>1</u>	<u>300,000</u>	<u>2</u>	<u>356,000</u>
Total	6	1,135,541	19	3,546,666	25	4,682,207

Awards Received

In the period March 1, 1998, through March 31, 1998

AWARDS FOR RESEARCH

Aerospace and Mechanical Engineering

Edmundo Corona

Buckling of Damaged Flat Panels Under Biaxial Loading
National Aeronautics and Space Administration
\$24,760 10 months

Flint O. Thomas and Robert C. Nelson

A High Lift Flow Physics Experiment
National Aeronautics and Space Administration
\$25,937 13 months

Unsteady Aspects of High-Lift Flows

National Aeronautics and Space Administration
\$55,217 12 months

Biological Sciences

John H. Adams

Malaria Reagent Program
Braton Biotech Inc.
\$97,000 6 months

Scott D. Bridgham

Research Experience for Undergraduates Supplement
National Science Foundation
\$10,000 12 months
Response to Climate Change in Peatlands
National Science Foundation
\$275,000 24 months

Paul R. Grimstad

Arbovirus Surveillance Laboratory Service
Indiana State Department of Health
\$27,897 12 months

Gary A. Lamberti

Effect of Stormwater Filters on Stream Temperature
SJADB
\$11,742 12 months

Civil Engineering and Geological Sciences

Ahsan Kareem

Dynamic Response of Structures
National Science Foundation
\$12,250 48 months

Stephen E. Silliman

An REU Site in Civil Engineering at Notre Dame
National Science Foundation
\$53,500 24 months

Chemical Engineering

Arvind Varma

REU Supplement for NSF Grant CTS-9528941
National Science Foundation
\$5,000 36 months
Mechanistic Studies of Combustion Synthesis
National Science Foundation
\$87,577 36 months

Chemistry and Biochemistry

Francis J. Castellino

Blood Coagulation Protein-Metal Ion-Lipid Interactions
National Institutes of Health
\$276,026 12 months
Potential Angiostatin Fragments
EntreMed, Inc.
\$54,000 12 months

Sharon Hammes-Schiffer

Quantum Effects in the Simulation of Proton Transfer
National Science Foundation
\$66,000 36 months

J. Kerry Thomas

Rapid Reactions of Ions
National Science Foundation
\$140,000 24 months

Computer Science and Engineering

Danny Z. Chen

Theoretical and Practical Solutions
National Science Foundation
\$50,000 36 months

Xiaobo (Sharon) Hu

Architectural Design for Embedding Systems
ARMY/DARPA
\$15,010 24 months

Electrical Engineering

Patrick J. Fay

Ultra-High Speed E/D HEMT ADCs
University of Illinois at Urbana
\$35,000 7 months

Michael D. Lemmon and Panos J. Antsaklis

Decentralized Supervision of Semi-Autonomous Systems
Department of the Army
\$50,000 8 months

James L. Merz and Gary H. Bernstein, et al.

Silicon Nanoelectronics
NAVY/ARPA
\$900,000 45 months

Robert L. Stevenson and Andrew Lumsdaine

Temporal Image Enhancement
National Security Agency
\$124,150 36 months

Mathematics

Joachim J. Rosenthal

Algebraic Methods in Systems Theory
National Science Foundation
\$35,000 24 months

Sergei Starchenko

Group Definable in o-minimal Structures
National Science Foundation
\$25,200 18 months

Physics

Carol E. Tanner

Precision Measurements of Transition Amplitudes in Cesium
National Science Foundation
\$69,304 48 months

James A. Glazier

Supplement for NYI Award
National Science Foundation
\$22,725 72 months

Theology

Eugene C. Ulrich and James C. VanderKam

The Publication of Four Volumes of Dead Sea Scrolls
Oxford Centre for Hebrew Studies
\$12,648 26 months

AWARDS FOR FACILITIES AND EQUIPMENT

Computer Science and Engineering

Andrew Lumsdaine and Robert L. Stevenson, et al.

Scalable Meta-Computing
Department of the Army
\$250,000 12 months

AWARDS FOR INSTRUCTIONAL PROGRAMS

Chemistry and Biochemistry

Marya Lieberman

How Science Policy is Made
C. & H. Dreyfus Foundation, Inc.
\$20,000 24 months

Proposals Submitted

In the period March 1, 1998, through March 31, 1998

PROPOSALS FOR RESEARCH

Accountancy

H. Fred Mittelstaedt and John C. Olsen III

The Investment Performance of the Chilean Pension System
TIAA-CREF
\$26,734 12 months

Aerospace and Mechanical Engineering

John E. Renaud and Stephen M. Batill

Simulation Uncertainty in Multidisciplinary Design
National Science Foundation
\$337,676 36 months
Response Surface Approximations Using Parallel Processing
National Aeronautics and Space Administration
\$259,496 36 months

Flint O. Thomas

Dynamic Modeling of a Rectangular Jet
Department of the Air Force
\$48,264 12 months

James P. Thomas and John E. Renaud

Tailoring the Mechanical Properties of FDM Components
National Science Foundation
\$308,354 36 months

Biological Sciences

John H. Adams

Antibody Inhibition of Plasmodium AMA-1 Function
World Health Organization
\$34,773 12 months
Expression and Immunogenicity of Plasmodium falciparum MAEBL
World Health Organization
\$32,610 24 months
Molecular Analysis of Apical Organelles of Plasmodium
National Institutes of Health
\$527,387 12 months

Scott D. Bridgham and L. Kellogg

Factors Controlling Plant and Microbial Communities
National Aeronautics and Space Administration
\$22,000 12 months

Civil Engineering and Geological Sciences

Erik A. Johnson and Billie F. Spencer Jr.

Fourth International Conference on Stochastic Structural Dynamics

National Science Foundation
\$12,000 12 months

Philip E. Johnson

Nonconventional Filter Media for Turbidity Removal

AWWA Research Foundation
\$73,962 24 months

Lloyd H. Ketchum Jr.

CSO Treatment in Wetlands

National Science Foundation
\$678,277 36 months

Yahya C. Kurama

Seismic Design of Buildings With Setbacks or Terminated Walls

National Science Foundation
\$109,473 36 months

Seismic Design of Precast Walls with Large Openings

PP Concrete Institute
\$10,000 12 months

Billie F. Spencer Jr. and Michael K. Sain, et al.

Seismic Isolation Using Smart Materials

National Science Foundation
\$491,068 36 months

Chemical Engineering

Joan F. Brennecke

SC CO₂ Soluble Ligands (subcontract)

Argonne National Laboratory
\$233,144 36 months

Paul J. McGinn

Superconducting Micro Laminates

Purdue University
\$34,415 12 months

Melt Textured Superconductors

Purdue University
\$138,872 12 months

Computer Science and Engineering

Andrew Lumsdaine

REU Supplement

National Science Foundation
\$5,000 12 months

Physics

H. Gordon Berry

MI Transitions in Helium

Department of Energy
\$192,535 24 months

A. Eugene Livingston

Atomic Structure of Highly Charged Ions

Department of Energy
\$311,617 36 months

Steven T. Ruggiero

Transport Properties of YBCO Thin Films

Purdue University
\$67,250 12 months

PROPOSALS FOR FACILITIES AND EQUIPMENT

Chemistry and Biochemistry

Marvin J. Miller

Acquisition of a 400 MHz NMR Spectrometer

National Institutes of Health
\$371,300 12 months

PROPOSALS FOR OTHER PROGRAMS

Electrical Engineering

Daniel J. Costello Jr.

EPICS NSF Sub Award

Purdue University
\$300,000 36 months

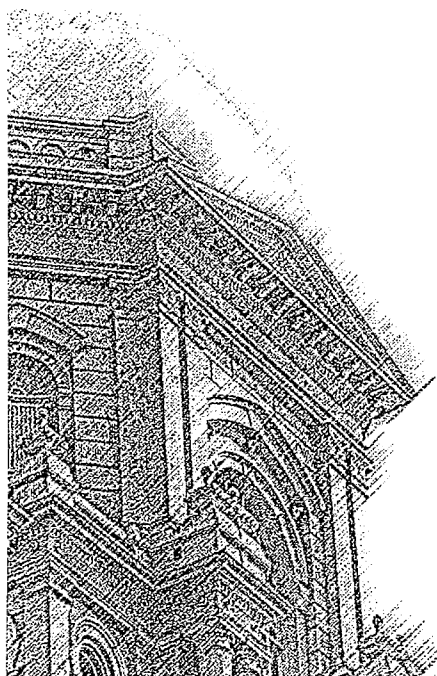
Office of Executive Vice President

James Roemer

NYSP

NCAA
\$56,000 12 months

Notre Dame Report



Volume 27, Number 16
May 1, 1998

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

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