

NOTRE DAME REPORT

THE UNIVERSITY

- 215 *New Advisory Council Members Announced*
- 215 *Xerox Foundation Funds Scholarships*
- 216 *Executive M.B.A. Program Honored*
- 216 *Center for Transgene Research Established*

FACULTY NOTES

- 217 *Honors*
- 217 *Activities*
- 220 *Deaths*

DOCUMENTATION

- 221 *Board of Trustees Executive Summary*
September 27, 1996

THE GRADUATE SCHOOL

- 222 *Current Publications and Other Scholarly Works*
- 224 *Awards Received and Proposals Submitted*
- 225 *Awards Received*
- 226 *Proposals Submitted*

New Advisory Council Members Announced

New members of Notre Dame's advisory councils have been announced.

College of Architecture — Christine G.H. Franck, Washington, D.C.; Robert Lee Price Jr., Urban Design Group, Inc., Chicago, Ill.; James R. Ryan, chief executive officer, Ryan Companies, Minneapolis, Minn.; and Alan S.T. Yung, director, Yung's Engineering Limited, Hong Kong.

College of Arts and Letters — Carol Lyman, Winnetka, Ill.; Lucia Rodarte Madrid, KPNX Channel 12, Phoenix, Ariz.; Joseph E. Morahan III, chairman, RHH Financial Services Group, Inc., Denver, Colo.; Matthew V. Storin, editor, *Boston Globe*, Boston, Mass.; George W. Strake Jr., president and treasurer, Strake Foundation, Houston, Tex.; and Karen R. Weigert, state director, Clinton Campaign, Indianapolis, Ind.

College of Business Administration — Joseph E. Giovanini, Teton Village, Wyo.; Kenneth C. Ricci, president, Corporate Wings, Cuyahoga County Airport, Cleveland, Ohio; Angela M. Smith, manager of diversity programs, Deloitte & Touche LLP, Wilton, Conn.

College of Engineering — Robert P. Greenwell, 737 deputy chief project engineer, Boeing Commercial Airplane Group, Seattle, Wash.; Kenneth E. Stinson, chairman and chief executive officer, Kiewit Construction Group Inc., Omaha, Nebr.; Lavetta C. Willis, Los Angeles, Calif.

College of Science — Dr. R. Lawrence Dunworth, Huntington, W.Va.; Richard L. Gibney, Brazos Kidney Disease Center, Waco, Tex.; Dr. Eleanor M. Walker, Department of Radiation Oncology, Henry Ford Hospital, Detroit, Mich.

Law School — JoAnn Chavez, KPMG Cardenas Dosal, S.C., Bosques de las Lomas, Mexico; Yvette I. Flores, development legal team, McDonald's Corporation, Oak Brook, Ill.; Robert H. Kurnick Jr., Penske Corporation, Troy, Mich.; Robert Schmiede, Daley & Mohan, P.C., Chicago, Ill.; Kathryn L. Smith, Bowman and Brooke, Phoenix, Ariz.

Graduate Studies and Research — Ruben A. Carriedo, assistant superintendent, San Diego City Schools, San Diego, Calif.; Patrick J. Finneran Jr., vice president and general manager, McDonnell-Douglas Aerospace, St. Louis, Mo.; Michael A. Smith, vice president, Lockheed Martin, Bethesda, Md.; Cynthia M. Stark, president, The Williamsburg Company, Westmont, Ill.

Snite Museum of Art — Brigitte M. Foley, Chicago, Ill.; Mary K. O'Shaughnessy, president and director, Wood Street Gallery, Ltd., Chicago, Ill.

Institute for Church Life — Mary and Thomas D. Cabot Jr., Greenwich, Conn.; Daniel A. Lizarraga, CHD/USCC, Washington, D.C.; Margaret H. and Alexander McMurtrie Jr., Midlothian, Va.; Catherine and Ronald R. Tisch, Sewickley, Pa.; Celeste and Clifford Wright, Buffalo Grove, Ill.

International — Robert P. McNeill, executive vice president, Stein, Roe and Farnham, Inc., Chicago, Ill.; Yuzuru Nagai, chairman of the board and chief executive officer, Sintokogio, Ltd., Nagoya, Japan.

Xerox Foundation Funds Scholarships

Notre Dame has received a \$10,000 gift from the Xerox Foundation to fund scholarships for women engineering students.

Five Notre Dame engineering students are now serving as interns at the Xerox United States Customer Operation headquarters in Rochester, N.Y.

The Xerox Foundation is a philanthropic organization which annually contributes more than \$14 million in five broad areas: community affairs, higher education, cultural affairs, national programs and international programs.

Executive M.B.A. Program Honored

The distance learning program, developed by the Notre Dame Executive M.B.A. Program, was honored as the best in higher education at the U.S. Distance Learning Association's annual awards banquet in Anaheim, Calif.

Now in its second year of operation, the distance learning program provides graduate business education through live videoconferencing to students who are geographically removed from the campus.

The program — which currently serves students in Chicago and Toledo, Ohio — features two fully equipped classrooms on campus that include an array of tracking cameras, video monitors, push-to-talk and wireless tracking microphones, document cameras, VCRs, and personal computers networked to the Internet and World Wide Web. Guest speakers from anywhere in the world can be "conferenced" into a class to interact with students using both two-way audio and video.

Notre Dame's videoconferencing system was developed by Ameritech and VTEL Corp. and is based upon two-way audio and compressed digital video technology. The system utilizes a high-speed T-1 and ISDN communications network to link the College of Business Administration complex to specially equipped rooms at Ameritech's offices in Hoffman Estates, Ill., and at the corporate headquarters of Owens-Illinois in Toledo. Cameras, audio equipment and video monitors at Notre Dame and the remote sites allow the off-campus students to "attend" classes and make it possible for real-time live interaction between the faculty and students. Classes are held all day every other Friday and Saturday during the academic year, making it possible for the students to maintain full-time employment. Students visit campus at the start of each semester for an in-residence session to meet faculty and classmates in person.

Established in 1987, the U.S. Distance Learning Association is a nonprofit organization that promotes the development and application of distance learning for education and training. The association annually honors the leading programs in K-12 education, higher education, corporate training, continuing education, military and government training, and telemedicine.

Center for Transgene Research Established

Notre Dame has established a new research center that will employ innovative genetic technology to study human diseases that involve blood-clotting and clot-dissolving proteins, such as heart disease and hemophilia.

The Center for Transgene Research, directed by Francis J. Castellino, dean of the College of Science and Kleiderer-Pezold professor of chemistry and biochemistry, will bring together Castellino's laboratory, considered among the foremost worldwide conducting basic biochemical research on blood clotting mechanisms, with the Belgian laboratory of Désiré Collen, professor of medicine at the University of Leuven in Belgium, that is at the forefront in targeted transgenic manipulations.

In transferring this very sophisticated technology back to Notre Dame, Castellino hopes better to understand how certain blood-clotting and blood-thinning proteins work in a living organism, in this case mouse models.

In transgene research, scientists alter genetic material in a very precise manner in an animal's embryo shortly after conception, either by adding, deleting or exchanging certain genes in the few cells of the newly formed embryo.

By breeding animals with differently altered genes, Notre Dame researchers expect to get a clearer view of the complex interplay of all genes involved in particular blood diseases.

FACULTY NOTES

Honors

Keith J. Egan, adjunct professor of theology, was re-elected to another two-year term (1996-98) on the board of directors of the National Network of Colleges and Universities in the Lilly Fellows Program in the Humanities and the Arts.

Leonid Faybusovich, associate professor of mathematics, was appointed to serve on the editorial board of the *SIAM Journal of Optimization*.

Linda Flosi, visiting assistant professor of Romance languages and literatures, was elected to the Executive Council of the American Association of Teachers of Italian as regional representative for the Midwest. She was included in the fourth edition (1996) of "Who's Who Among America's Teachers."

Anthony K. Hyder, associate vice president for graduate studies and research, professor of physics and aerospace and mechanical engineering, has been appointed to a three-member team to review all Department of Defense basic research in physics and electronics. The appointment was made by the Honorable Dr. Anita K. Jones, deputy secretary of defense for research and engineering.

Lawrence C. Marsh, associate professor of economics, won the first place award for the best statistics paper at the 1996 Midwest SAS Conference held in Minneapolis, Minn., Sept. 29-Oct. 1.

Karamjit S. Rai, professor of biological sciences, has been selected as a fellow in the National Academy of Sciences of India. This academy represents the second largest scientific workforce in the world and fellowship is the highest honor it can bestow on a recipient. His election is in recognition of the work done in his laboratory in the areas of vector biology and genetics and genetic control of mosquitoes over more than three decades as well as in recognition of his longstanding interest and involvement in major research developments in vector biology and genetics in India.

Activities

Joan Aldous, Kenan professor of sociology, served as a member of a panel on the relationship between family researchers and legislators and gave a paper on "Politics, Family Policy and Child Labor: The Failure of the Child Labor Amendment of the 1920s" at the National Council on Family Relations annual meeting in Kansas City, Mo., Nov. 7, 9.

Albert-Laszlo Barabasi, assistant professor of physics, gave a talk titled "Morphology of Ion-sputtered Surfaces: Connections to the Kardar-Parisi-Zhang and Kuramoto-Sivashinsky Equations" as part of the Computations in Science seminar series at the University of Chicago Department of Physics in Chicago, Ill., Nov. 13.

Jeffrey H. Bergstrand, associate professor of finance and business economics and fellow in the Kroc Institute, presented the paper "The Growth of World Trade: Tariffs vs. Technology" at the third annual Empirical Investigations of International Trade conference at Purdue University in West Lafayette, Ind., Nov. 15-17.

Jacqueline Vaught Brogan, professor of English, presented "A New Genre for Hemingway's *In Our Time* — In His Time and Our Own" at the American Literature Association symposium on American Short Fiction Since 1890 in San Jose del Cabo, Mexico, Nov. 9.

Carolyn M. Callahan, associate professor of accountancy, presented "Earnings Predictability, Information Asymmetry, and Market Liquidity" co-authored with **John Affleck-Graves**, associate professor of finance and business economics, and **Niranjan Chipalkatti** at the American Accounting Association national meeting in Chicago, Ill., Aug. 16.

Roberto DaMatta, Joyce professor of anthropology, lectured on "Sports as National Dramas: Why Football (Soccer) is so Popular in Brazil?" during the Brazilian Week sponsored by the Department of Spanish and Portuguese, the Center for Latin American and Caribbean Studies, the Office of Latino Affairs International Programs and the Brazilian Association at Indiana University in Bloomington, Ind., Nov. 14.

Keith J. Egan, adjunct professor of theology, lectured on "Loving Friendship with God in John of the Cross" at the international congress on Medieval Studies at Western Michigan University in Kalamazoo, Mich., May 11. He lectured on "Aelred of Rievaulx's Use of Scripture in the *De spiritali amicitia*" in a workshop he organized at the annual convention of the Catholic Theological Society of America in San Diego, Calif., June 8. He presented "Therese of Lisieux: Woman of the Church" at Retreats

FACULTY NOTES

International, Notre Dame, Ind., July 1-5. He gave the lecture "Therese of Lisieux: A Teacher in the Church" at the seminar on Carmelite Spirituality at Saint Mary's College, Notre Dame, Ind., June 23-29. Egan lectured on "Carmelite Spirituality" to the doctor of ministry students at Northern Baptist Theological Seminary in Lombard, Ill., Aug. 5-9. He served as a respondent to a paper on "Carmelite Identity and the Figure of Elijah" at the Carmelite Study Week at the Carmelite Institute in Washington, D.C., Sept. 23-26. He lectured on "Therese: A Daring Young Woman" at Little Flower Parish in South Bend, Ind., Sept. 29. He lectured on "Therese Martin: A Bold Holiness" in the series "Holy Young Women" at Saint Mary's College, Notre Dame, Ind., Oct. 2. Egan lectured on "The Meals of Jesus" to the Liturgical Ministries of Little Flower Parish in South Bend, Ind., Oct. 6. He lectured on "Contemplative Prayer" to the Thomas Merton Society of South Bend, Ind., Oct. 15.

Georges Enderle, O'Neill professor of international business ethics, was program chair of the First World Congress of Business, Economics and Ethics in Tokyo, Japan, July 25-28. He presented the paper "Integrating the Ethical Dimension into the Analytical Framework for the Reform of State-owned Enterprises in China's Socialist Market Economy — A Proposal" during the colloquium Chinese and American Economic Ethics at the Chinese Academy of Social Sciences in Beijing, China, July 30-Aug. 1. He taught a required M.B.A. course on business ethics at the China Europe International Business School in Shanghai and gave two seminars on business ethics to Chinese and Western business executives in Beijing, China, Sept. 21-Nov. 15.

Harald E. Esch, professor of biological sciences, gave the seminar "Response of Bees to Optical Patterns While Flying in a Wind Tunnel" at the University of Wurzburg, Germany, Oct. 8; in Zurich, Switzerland, Oct. 11; and in Innsbruck, Austria, Oct. 21.

Linda Flosi, visiting assistant professor of Romance languages and literatures, chaired a session titled "From Language to Literature: Bridges to the Great Divide" and delivered the paper "Novelle/Novellare: An Interactive Approach to a Literary Genre" at the American Council on the Teaching of Foreign Languages conference in Philadelphia, Pa., Nov. 22.

E. Ann Gabriel, assistant professor of accountancy, presented "The Benefit of More Accurate Product Cost Information in Imperfectly Competitive Markets: An Experimental Investigation" co-authored with **Carolyn M. Callahan**, associate professor of accountancy, at the American Accounting Association Management Accounting Research Conference in San Antonio, Tex., Nov. 2.

John H. Garvey, professor of law, gave an address on the role of moral judgments in adjudication to the judges of the Florida Supreme Court and the Florida Courts of Appeals at their annual meeting in Naples, Fla., Sept. 16. He lectured on his forthcoming book *What are Freedoms For?* at Northwestern University Law School in Evanston, Ill., Oct. 25; at the University of Colorado School of Law in Boulder, Colo., Nov. 1; at McGeorge Law School in Sacramento, Calif., Nov. 15; and at Case Western Reserve University Law School in Cleveland, Ohio, Dec. 4. He gave a lecture on the declining significance of separationism in the first amendment law at the Montgomery County Schools Education Foundation's Distinguished Performance and Lecture Series in Mt. Sterling, Ky., Nov. 11.

David W. Gasperetti, associate professor of German and Russian languages and literatures, presented a paper titled "Laughter and the Picaresque in Chulkov's Novels" at the annual conference of the American Association for the Advancement of Slavic Studies in Boston, Mass., Nov. 17.

Benedict Giamo, assistant professor of American studies, moderated a public forum titled "Critical Internationalism: New Directions in Interdisciplinary Teaching and Research" at the University of Notre Dame, Notre Dame, Ind., Nov. 13. The forum featured Linda K. Kerber, provost's distinguished visiting lecturer and Brodbeck professor in the liberal arts and professor of history at the University of Iowa, and Notre Dame participants **Albert H. LeMay**, program coordinator for the Kellogg Institute and concurrent associate professor of English, and **Claire Joly**, assistant professor of American studies.

Denis Goulet, O'Neill professor of education for justice, economics, delivered a lecture on "Population, Consumption, Sustainable Development?" to the Institute on World Affairs at Iowa State University in Ames, Iowa, Nov. 6.

Paul W. Huber, associate chairperson and associate professor of chemistry and biochemistry, presented the invited seminar "What Proteins Want to See: Identity Elements in 5s rRNA for Transcription Factor IIIA and Ribosomal Protein L5" to the Biochemistry and Molecular Biology Program at Purdue University in West Lafayette, Ind., Nov. 11.

Carlos Jerez-Farrán, associate professor of Romance languages and literatures, presented "Semiótica de la homosexualidad en *El paseo de Buster Keaton* de García Lorca" at the VII Congreso Internacional de la Asociación Española de Semiótica at the Universidad de Zaragoza, Spain, Nov. 4.

FACULTY NOTES

Ahsan Kareem, professor of civil engineering and geological sciences, presented an invited talk titled "Wind Engineering Research in the United States" co-authored with Eleanor Sabadell, director of the Natural Hazards Mitigation Program, National Science Foundation, at the 28th joint meeting of the U.S.-Japan Cooperative Program in Natural Resources Panel on Wind and Seismic Effects held at the National Institute of Standards and Technology in Gaithersburg, Md., May 13-17.

Eileen Kolman, dean of the First Year of Studies, and concurrent assistant professor of mathematics, made a presentation on "Model Retention Programs" at the Taking Charge of the Future conference sponsored by the Indiana Career and Postsecondary Advancement Center at the Valle Vista Conference Center in Greenwood, Ind., Nov. 15.

A. Eugene Livingston, professor of physics, presented an invited seminar titled "Rydberg Transitions in Highly-charged Ions" at the University of Liege in Liege, Belgium, Nov. 21.

Gilbert D. Loescher, professor of government and international studies, presented a paper on external research at the first meeting of the External Research Advisory Committee of the Office of the United Nations High Commissioner for Refugees in Geneva, Switzerland, Oct. 17-19.

George A. Lopez, professor of government and international studies and fellow in the Kroc Institute, conducted the workshop "Conflict Resolution Within the Academy" for the School of Nursing at Michigan State University in East Lansing, Mich., Aug. 19. He served as the director of the annual Wells Scholars retreat on "The Politics and Ethics of Humanitarian Intervention" at Indiana University in Bloomington, Ind., Oct. 4-5. He conducted a workshop titled "Administrators and Conflict Resolution Within the Academy" for new department chairs, deans and administrators at Michigan State University in East Lansing, Mich., Oct. 10.

Lawrence C. Marsh, associate professor of economics, presented a paper "Testing for and Correcting for Missing Data in Survey Responses" with co-author Shelley S. Baxter of Baxter Econometrics at the 1996 Midwest SAS Conference in Minneapolis, Minn., Sept. 30.

James J. Mason, assistant professor of aerospace and mechanical engineering, presented a paper titled "High-speed Photography of Shear Localization at the Tip of a Notch" at the 22nd international congress on High-Speed Photography and Photonics in Santa Fe, N.Mex., Oct. 27-Nov. 1.

A. James McAdams, associate professor of government and international studies, lectured on "The Berlin Republic, Or Why East Germany Just Won't Go Away!" and "Beyond Nuremberg: German Justice and East German Law in the 1990s" at the University of Connecticut's international conference titled Fifty Years After Nuremberg: Human Rights and the Rule of Law in Storrs, Conn., Oct. 16-17.

Thomas V. Merluzzi, associate professor of psychology, presented a paper titled "Refinement of the Cancer Behavior Inventory: Validity and Reliability of a Measure of Self-Efficacy for Coping with Cancer" at the World Congress of Psychooncology in New York, N.Y., Oct. 4.

Walter Nicgorski, professor in the Program of Liberal Studies, concurrent professor of government and international studies and editor of *The Review of Politics*, was the commentator on the panel concerning "Does the Court's Constitutional Reach Exceed Congress' Grasp?" at the annual meeting of the American Political Science Association in San Francisco, Calif., Aug. 30. He spoke to the Arts and Letters Core Course faculty on "Lincoln and Gettysburg According to Gary Wills" at the University of Notre Dame, Notre Dame, Ind., Nov. 1.

Hugh Page, assistant professor of theology, presented "Making the Sacred in the Near East — The Three Zone Theory and Ugaritic Baal Myth" at the annual meeting of the Society for the Scientific Study of Religion in Nashville, Tenn., Nov. 8-10. He gave contribution on the theme "What Must We Know? What Should We Read? What Are Our Tasks: Research, Teaching, and Canonical Concerns in Ancient Near Eastern and Afroasiatic Cultural Research" in New Orleans, La., Nov. 22. He presented "Rhetorical Criticism and Beyond — Some Personal Thoughts on the Legacy of James Muilenburg" at the Legacy of James Muilenburg Session, "Divine Physiognomy and Social Reality in Ugaritic Baal Myth — An Exploration of the Use of the Body as Hermeneutical Lens" at the Ugaritic Studies and North West Semitic Epigraphy Group and "Some Thoughts on Brian Blount's *Cultural Interpretation*" at the Semiotics and Exegesis Section at the 1996 AAR/SBL annual meeting in New Orleans, La., Nov. 22-26.

Richard Pierce, instructor in history, presented the paper "Researching African American Urban History" at the Indiana Historical Society's annual meeting held in Indianapolis, Ind., Nov. 2. He served as a consultant to a Foellinger Foundation committee studying neighborhood de-stabilization in Fort Wayne, Ind. The committee's charge was to develop a research plan and oversee its implementation.

FACULTY NOTES

Larry Rapagnani, assistant provost for information technologies, presented a talk titled "Will Information Technology Have an Impact on Tomorrow's Educational Process?" to the Northeast Regional Conference: The Law Librarian and Law School Computing in Toronto, Canada, Oct. 19.

John E. Renaud, assistant professor of aerospace and mechanical engineering, served on the National Science Foundation's Engineering Design Review Panel for Unsolicited Proposals in Arlington, Va., Nov. 25.

Joachim Rosenthal, associate professor of mathematics, presented the invited talk "On the Duality between Computational Codes and Linear Systems" at the Coordinated Science Laboratory of the University of Illinois in Urbana-Champaign, Ill., Nov. 7.

Mark A. Stadtherr, professor of chemical engineering, co-chaired the symposium on Optimization Methodologies and Fundamentals at the American Institute of Chemical Engineers annual meeting in Chicago, Ill., Nov. 10-15. He co-authored "A Parallel Frontal Solver for Dynamic Simulation and Optimization on Supercomputers" presented by J.U. Mallya and co-authored with S.E. Zitney and S. Choudhary, and "Enhanced Interval Techniques for Reliable Computation of Phase Equilibrium" presented by J.Z. Hua and co-authored with S.R. Tessier, W.C. Rooney and **Joan F. Brennecke**, associate professor of chemical engineering, at that meeting.

J. Samuel Valenzuela, professor of sociology, has received a Guggenheim Fellowship. He gave an invited general presentation on labor movements in transitions to democracy during a discussion of contemporary African transitions at a seminar on democratization at Nuffield College in Oxford, England, June 5. He presented a paper "The Origins and Transformations of the Chilean Party System" at a conference organized by the diplomatic academy of the Ministry of Foreign Affairs of Argentina in Buenos Aires, Argentina, Aug. 29. He gave a lecture "Why no Social Democracy in Chile, 1880-1940?" at St. Antony's College, Oxford University, in Oxford, England, Nov. 15. He served as a discussant on papers on Argentina and Chile at the conference titled Parliamentary Elites in Latin America: Composition, Values and Attitudes" at the Institute of Latin American Studies at the University of London in London, England, Oct. 21. He served on a committee of Southern Cone intellectuals convened by the Brazilian presidency to prepare recommendations for enhancing the social, cultural and political integration of the Mercosur member countries, Dec. 13-14.

Raimo Väyrynen, professor of government and international studies and Regan director of the Kroc Institute, presented "Finland as a Small State: From a Nation State to the Global/Local Nexus" at a symposium on Hundred Years of Finnish Studies in the United States at the University of Minnesota in Minneapolis, Minn., Nov. 9-10.

Christine Venter, associate professional specialist in law, spoke at a seminar on housing discrimination sponsored by the South Bend Commission on Human Rights at the Charles Martin Center in South Bend, Ind., Nov. 10.

Andrzej Walicki, O'Neill professor of history, delivered a paper "Marxist Communism as a Conception of Freedom" at the fifth World Congress of Christian Philosophy at the Catholic University of Lublin in Lublin, Poland, Aug. 20-25. He delivered the paper "Attitudes Towards Catholicism in Russian Thought: From Chaadaev to Soloviev" at the Institute for Human Sciences in Vienna, Austria, Oct. 22. He gave the paper "Intellectual Elites and the Vicissitudes of 'Imagined Nation' in Poland" at the Institute for Human Sciences in Vienna, Austria, Nov. 20.

Deaths

Rev. Edmund J. Murray, C.S.C., associate professor emeritus of sociology, Nov. 12. Murray was born April 14, 1907, in Bridgeport, Conn. He entered Holy Cross Seminary at Notre Dame in September 1925. Following graduation he entered St. Joseph's Novitiate at Notre Dame, where he pronounced his first vows July 2, 1930. He was a seminarian at Moreau Seminary and graduated from the University of Notre Dame in 1934. He made his perpetual profession of religious vows on Aug. 16, 1934. After four years of theology at Holy Cross College, Washington, D.C., Murray was ordained to the priesthood June 24, 1938. In 1950, he attended the National University of Ireland in Dublin, where he pursued a doctoral degree in history which he earned in 1953 from University College. During this time he assisted in Father Patrick Peyton's Family Rosary Crusade in Ireland and England. Immediately following his ordination Murray taught for one year at Holy Cross Seminary, and then served as chaplain at St. Joseph's Farm in Granger, Ind., for two years. He began working at Notre Dame in 1941 serving as a teacher and prefect during 1941-42 and 1946-49, and as assistant prefect of religion in 1949-50. He taught in the Department of Sociology from 1954 until he was promoted to emeritus status in 1972. He published several books on Irish history and folklore. He was a member of the Ancient Order of Hibernians, 40 & 8, the American Legion, Veterans Groups and the Knights of Columbus.

Board of Trustees Executive Summary September 27, 1996

Father Malloy's President's Report included a briefing on changeovers of responsibility in the central administration; occasioned by retirements; the importance of data-gathering and first-hand visits to discern how the University compares with its peers in various areas; a reaffirmation of affirmative action in employee and student recruitment; the new director of the Kaneb Center for Teaching and Learning; international initiatives; increases in the size of the faculty and retention of current faculty sought by other universities; advances in learning technology; physical development of the campus, and the NCAA accreditation process.

Mr. Decio reported on the Committee for Athletic Affairs' annual review of the Department of Athletics. Athletic Director Michael Wadsworth presented a detailed and positive report on the scholastic record of Notre Dame varsity athletic team members for the past four years and described a new "life skills" program designed to enhance student-athletes' knowledge in areas such as alcohol and drug abuse, health and nutrition guidelines, interviewing and job placement.

The trustees discussed a range of issues in higher education, including tuition increases, restructuring, faculty productivity, information technology, doctoral programs and the job market, teaching and research, and the growing pressures on public higher education.

Prof. Hatch reviewed current searches for a new dean in arts and letters, a new director of libraries and a new director of the Medieval Institute. He also discussed the need for endowed chairs, initiatives in the area of Catholic intellectual life, the efforts to attract top students to M.B.A. and law programs, and developments in international education.

Father Malloy reviewed with the trustees an initial list of candidates proposed for honorary degrees in the spring.

Father Beauchamp briefed the trustees on campus construction.

Prof. Sexton reported on progress in the pre-announcement phase of the upcoming development campaign and thanked several trustees for recent leadership gifts.

Mr. Labrecque led a discussion of the recent Business/Higher Education Forum study of "Higher Education and Work Readiness: The View from the Corporation."

Father Beauchamp presented the operating results for the University for fiscal year 1996 and reviewed capital projects in the offing.

Mr. Jordan reported on the status of the University's endowment and investments on behalf of the Investment and Finance Committee.

THE GRADUATE SCHOOL OFFICE OF RESEARCH

Current Publications and Other Scholarly Works

Current publications should be mailed to the Office of Research of the Graduate School, Room 312, Main Building.

COLLEGE OF ARTS AND LETTERS

Rubulis, Aleksis

- A. Rubulis. 1996. *A handbook: Theology, history, archeology*. Latvia: Riga. 406 pp.
A. Rubulis. 1995. *A commentary to the revelation*. Latvia: Riga. 48 pp.

American Studies

Schmuhl, Robert P.

- R. Schmuhl. 1996. Clinton's approach: It's me vs. them. Review of *Between hope and history: Meeting America's challenges for the 21st century*, by B. Clinton. *Philadelphia Inquirer*, 1 September, sec. Q, pp. 1+6.
R. Schmuhl. 1996. Myth of the better life. Review of *Blue sky dream: A memoir of America's fall from grace*, by D. Beers. *Philadelphia Inquirer*, 29 September, sec. Q, pp. 1+2.
R. Schmuhl. 1996. The paradox of the public mind. *Boston Sunday Globe*, 27 October, sec. Focus, pp. 1+3.
R. Schmuhl. 1996. Politics, morality, hypocrisy. Syndicated by *Religion News Service* (6 August):1-3.
R. Schmuhl. 1996. Shrinking from the wisdom of the ages. *Philadelphia Inquirer*, 2 September, sec. A, p. 9.
R. Schmuhl. 1996. "Starting points" needed in the political culture. *Philadelphia Inquirer*, 3 November, sec. Sunday Review, p. 7.
R. Schmuhl, ed. and introduction. 1996. *Wounded titans: American presidents and the perils of power*. New York: Arcade Publishing. xx + 437 pp.

Government and International Studies

Johansen, Robert C.

- R. Johansen. 1996. The future of the United Nations peacekeeping and enforcement: A framework for policymaking. *Global Governance* 2 (3): 299-333.

History

Jaksic, Iván A.

- I. Jaksic. 1996. Racionalismo y Fe: La Filosofía Chilena en la Época de Andrés Bello. *Historia* 29 (1995-1996): 89-123.

Walicki, Andrzej

- A. Walicki. 1995. *Marksizm i skok do królestwa wolności* (Polish version of *Marxism and the leap to the kingdom of freedom*). Warsaw, Poland: PWN.

Program of Liberal Studies

Nicgorski, Walter

- W. Nicgorski. 1996. Theory redivivus. *Political Science Reviewer* 25:74-99.

Romance Languages and Literatures

Moevs, Christian R.

- C. Moevs. 1996. Is Dante telling the truth? *Lectura Dantis* 18-19 (Spring-Fall): 3-11.

Theology

Burrell, David B., C.S.C.

- D. B. Burrell, C.S.C. 1996. Beyond idolatry: On "naming" the One — God. In *Finding God in all things*, eds. M. Himes and S. Pope, 28-37. New York: Crossroad.
D. B. Burrell, C.S.C. 1996. The Christian distinction celebrated and expanded. In *The truthful and the good*, eds. J. Drummond and J. Hart, 191-206. Dordrecht, The Netherlands: Kluwer Academic Publishers.

Coll, Regina A., C.S.J.

- R. A. Coll, C.S.J. 1996. Review of *Catholic social teaching as I have lived, loathed and loved it*, by P. S. Land, S.J. *America* (9 November):25-26.
R. A. Coll, C.S.J. 1996. Review of *Compassionate ministry: Theological foundations*, by B. P. Stone. *Living Light* (Fall):85-86.

Cunningham, Lawrence S.

- L. S. Cunningham and K. J. Egan. 1996. *Christian spirituality: Themes from the tradition*. Mahwah, N.J.: Paulist Press. iv + 216 pp.

Egan, Keith J.

- K. J. Egan. 1996. Therese: Doctor in the church. Series: *St. Thérèse of Lisieux: Her mission today: 1897-1997*. Washington, D.C.: Institute of Carmelite Studies. Audio cassette.

- K. J. Egan. 1996. Therese: Doctor in the church. Series: *Therese: Her mission today: 1897-1997*. Washington, D.C.: Carmelite Institute. Video cassette.

See under Cunningham, Lawrence S. 1996. *Christian spirituality: Themes from the tradition*.

Page, Hugh R., Jr.

- H. R. Page Jr. 1996. Ethnological criticism: An apologia and application. In *Exploring new paradigms in biblical and cognate studies*, 84-107. Macon, Ga.: Mellen Biblical Press.

- H. R. Page Jr. 1996. Monograph: *The myth of cosmic rebellion: A study of its reflexes in Ugaritic and biblical literature*. Supplements to *Vetus Testamentum*, 65. Leiden: E. J. Brill.

THE GRADUATE SCHOOL OFFICE OF RESEARCH

COLLEGE OF SCIENCE

Biological Sciences

Kulpa, Charles F., Jr.

- R. Boopathy, J. Manning and C. F. Kulpa. 1997. Optimization of environmental factors for the biological treatment of trinitrotoluene-contaminated soil. *Archives of Environmental Contamination and Toxicology* 32:1-5.

Lodge, David M.

- T. L. Lauridsen and D. M. Lodge. 1996. Avoidance by *Daphnia magna* of fish and macrophytes: Chemical cues and predator-mediated use of macrophyte habitat. *Limnology and Oceanography* 41 (4): 794-798.

Chemistry and Biochemistry

Chetcuti, Michael J.

- M. J. Chetcuti. 1996. Group 6-group 10 heterobimetallic complexes with sulfur ligands. *Journal of Cluster Science* 7 (3): 225-245.

Miller, Marvin J.

- J. R. Bellettini and M. J. Miller. 1996. Intermolecular addition of amines to an *N*-tosyloxy β -lactams. *Journal of Organic Chemistry* 61 (22): 7959-7962.

- C. Lu, J. S. Buyer, J. F. Okonya and M. J. Miller. 1996. Synthesis of optically pure chrysobactin and immunoassay development. *Biometals* 9:377-383.

Smith, Bradley D.

- B. D. Smith. 1996. ACS symposium series 642 chemical separations with liquid membranes, eds. R. A. Bartsch and J. D. Way, 194-205. Chapter 14. In *Sugar separation using liquid membranes and boronic acid carriers*. Washington, D.C.: American Chemical Society.

M-F. Paugam, J. T. Bien, B. D. Smith, L. A. J.

- Chrisstoffels, F. de Jong and D. N. Reinhoudt. 1996. Facilitated catecholamine transport through bulk and polymer-supported liquid membranes. *Journal of the American Chemical Society* 118 (42): 9820-9825.

SCHOOL OF ARCHITECTURE

Younés, Samir

- S. Younés. 1996. Janus L'architecte. Hommage au dessinateur belge de bandes dessinées, Jacques Martin. *Fondation Philippe Rotthier Pour L'Architecture* 3 (October): 16.

COLLEGE OF BUSINESS ADMINISTRATION

Accountancy

Simon, Daniel T.

- D. T. Simon and M. L. Costigan. 1996. Additional evidence on the determinants of accounting policy choice: The case of positive early adopters of SFAS 96. *Quarterly Journal of Business and Economics* 35 (4): 49-63.

Management

Kohli, Rajiv

- G. A. Forgionne and R. Kohli. 1996. A management support system to facilitate TQM for hospitals. *Information and Systems Engineering* 2 (2): 119-137.

LAW SCHOOL

Venter, Christine M.

- C. M. Venter. 1996. Encouraging personal responsibility: An alternative approach to teaching legal ethics. *Duke University Journal of Law and Contemporary Problems* 58:286-296.

INSTITUTE FOR INTERNATIONAL PEACE STUDIES

Pelton, Robert S., C.S.C.

- R. S. Pelton, C.S.C. 1996. Vatican II and Latin America: An example of inter-regional church cooperation. In *International papers in pastoral ministry*. Notre Dame, Ind.: Helen Kellogg Institute for International Studies.

RADIATION LABORATORY

George, M. V.

- See under Kamat, Prashant V. 1996. *Journal of Physical Chemistry* 100 (43): 17310-17315.

Kamat, Prashant V.

- S. Das, K. G. Thomas. K. J. Thomas. V. Madhavan, D. Liu, P. V. Kamat and M. V. George. 1996. Aggregation behavior of water soluble bis(benzothiazolyldiene)dauaraine derivatives in aqueous media. *Journal of Physical Chemistry* 100 (43): 17310-17315.

THE GRADUATE SCHOOL OFFICE OF RESEARCH

Awards Received and Proposals Submitted

In the period October 1, 1996, through October 31, 1996

AWARDS RECEIVED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	3	334,608	13	1,248,977	16	1,583,585
Facilities and Equipment	0	0	0	0	0	0
Instructional Programs	0	0	0	0	0	0
Service Programs	0	0	3	4,431	3	4,431
Other Programs	<u>3</u>	<u>173,253</u>	<u>5</u>	<u>4,850,518</u>	<u>8</u>	<u>5,023,771</u>
Total	6	507,861	21	6,103,926	27	6,611,787

PROPOSALS SUBMITTED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	7	817,736	43	9,826,587	50	10,644,323
Facilities and Equipment	1	20,000	2	179,926	3	199,926
Instructional Programs	0	0	2	328,949	2	328,949
Service Programs	0	0	1	1,000	1	1,000
Other Programs	<u>1</u>	<u>153,253</u>	<u>1</u>	<u>2,349,000</u>	<u>2</u>	<u>2,502,253</u>
Total	9	990,989	49	12,685,462	58	13,676,451

THE GRADUATE SCHOOL OFFICE OF RESEARCH

Awards Received

In the period October 1, 1996, through October 31, 1996

Aerospace and Mechanical Engineering

- Mueller, T.
Investigation of Thin Airfoil Encountering Periodic Gust
Department of the Navy
\$14,998 8 months
- Nelson, R.
Roll Characteristics of Slender Double Delta Wings
Institute for Aerospace Research
\$21,580 12 months
- Szewczyk, A.
Vortex Oscillations in Shear Flow
Department of the Navy
\$17,667 12 months
- Thomas, J.
Fatigue Testing of WE43-T6 Magnesium Alloy
Allied Signal, Inc.
\$1,000 12 months
- Jumper, E.
IPA Assignment — Dr. Hugo
Phillips Laboratory
\$51,589 12 months

Biological Sciences

- Lamberti, G., Lodge, D.
Potential Effects of Invading Ruffe
Purdue University
\$166,261 36 months
- Hyde, D.
Molecular Analysis of Phototransduction
National Institutes of Health
\$222,223 12 months

Civil Engineering and Geological Sciences

- Spencer, B.
Genetic Algorithms for MCS
National Science Foundation
\$27,030 36 months

Chemistry and Biochemistry

- Jacobs, D.
Energetic and Steric Effects in Ion/Surface Reactive Scattering
Department of the Air Force
\$102,317 36 months

- Castellino, F.
Potential Angiostatin Fragments
EntreMed, Inc.
\$36,300 12 months

Electrical Engineering

- Bernstein, G., Porod, W., et al.
Electromigration in Mesoscopic Interconnects
Department of the Air Force
\$129,000 12 months

Physics

- Furdyna, J., Dobrowolska-Furdyna, M.
Tetrahedrally Coordinated II-VI Semiconductor Heterostructures
Purdue University
\$58,428 45 months
- Bennett, D.
Measuring Proper Motions of Galactic Microlenses
Space Telescope Science Institute
\$24,633 24 months
- Livingston, A.
Studies of Rydberg States
National Institute of Standards and Technology
\$53,957 12 months
- Glazier, J.
Acquisition of Wide Bore Nuclear MRI
National Science Foundation
\$430,002 24 months

Psychology

- Cole, D., Maxwell, S.
A Competency-Based Model of Child and Adolescent Depression
National Institutes of Health
\$226,600 7 months

AWARDS FOR SERVICE PROGRAMS

Center for Continuing Formation in Ministry

- Lauer, E.
Center for Continuing Formation in Ministry
Various Others
\$397 1 month

THE GRADUATE SCHOOL OFFICE OF RESEARCH

Center for Pastoral Liturgy

Bernstein, E.
Center for Pastoral Liturgy
Various Others
\$976 1 month
Center for Pastoral Liturgy
Various Others
\$3,058 1 month

AWARDS FOR OTHER PROGRAMS

Alliance for Catholic Education

Scully, T.
Learn and Serve America: Higher Education
Corporation for National Service
\$153,253 12 months

Financial Aid

Malloy, J.
Indian Fellowship
Department of Education
\$24,768 12 months

Electrical Engineering

Porod, W.
International Workshop on Computational Electronics
Department of the Navy
\$10,000 12 months

Graduate School

Hatch, N.
Pew Evangelical Scholars Program
Pew Charitable Trusts
\$2,458,000 49 months
Pew Younger Scholars Program
Pew Charitable Trusts
\$2,349,000 36 months
Diffley, P.
G.E.M. Ph.D. Engineering Program
Graduate Education for Minorities
\$8,750 12 months

Institute for International Peace Studies

Hayner, A.
NAFSA Grant for Dmytro Konovalov
NAFSA/Association of International Educators
\$10,000 12 months
NAFSA Grant for Lucia Cebotaru
NAFSA/Association of International Educators
\$10,000 12 months

Proposals Submitted

In the period October 1, 1996 through October 31, 1996

PROPOSALS FOR RESEARCH

Aerospace and Mechanical Engineering

Thomas, F., Nelson, R.
Wake Development and Structure in Adverse Pressure
Gradient
National Aeronautics and Space Administration
\$52,033 12 months
Stanisic, M., Skaar, S.
Vision-Based Control of Dextrous Manipulators
National Science Foundation
\$382,966 36 months
Renaud, J., Batill, S., et al.
Multidisciplinary Design Research Extension
National Aeronautics and Space Administration
\$74,575 12 months
Thomas, J.
Temperature Effect on Fatigue Crack Growth of
Ti-6Al-4V
Department of the Air Force
\$25,000 12 months
Modeling Internal Hydrogen on the Fatigue Life of
Ti-6Al-4V
National Science Foundation
\$229,216 48 months
Szewczyk, A.
Vortex-Excited Oscillations
Department of the Navy
\$95,393 36 months
Mason, J.
Fatigue of Metal/Metal Interfaces
National Science Foundation
\$206,716 48 months

Architecture

Chang, I.
An Intelligent 3-D Base Isolation System
National Science Foundation
\$392,411 60 months

Biological Sciences

Saz, H.
Intermediary Metabolism of Helminths
National Institutes of Health
\$241,734 12 months

THE GRADUATE SCHOOL OFFICE OF RESEARCH

McKee, E.
Inositol-phospho-glycans and Mitochondrial Translation
Indiana University School of Medicine
\$48,000 24 months

Grimstad, P.
Vector Competence for La Crosse Virus in Aedes
National Institutes of Health
\$386,670 12 months

Mossing, M.
Structure and Interactions of Oncogene-Related Homeodomains
American Cancer Society
\$334,381 36 months

Eldon, E.
Cell Signaling in Insect Innate Immunity
National Institutes of Health
\$101,654 12 months

Civil Engineering and Geological Sciences

Johnson, P.
The Effects of Natural Organic Matter on Colloid Transport
National Science Foundation
\$206,716 48 months

Fleischman, R.
NSF Career Award for Robert B. Fleischman
National Science Foundation
\$206,716 48 months

Fein, J.
Bacteria-Water-Rock Interactions of Environmental Interest
National Science Foundation
\$206,716 48 months

Chemical Engineering

McGinn, P.
Ce Additions for Superconducting Bearings
Purdue University
\$10,000 12 months

Maginn, E.
Molecular Simulations in Engineering Education and Research
National Science Foundation
\$226,716 48 months

Chemistry and Biochemistry

Taylor, R.
The Total Synthesis of Epothilone A and B
American Cancer Society
\$278,634 36 months

Practical, Iterative Methodology from Novel Intermediates
National Science Foundation
\$477,845 48 months

Wiest, O.
DFT Studies of Radical Ion Cycloreversions
University of Illinois, Urbana
\$0 12 months

Pericyclic Reactions of Radical Ions
National Science Foundation
\$455,559 60 months

Thomas, J.
Rapid Ionic Reactions in Solid Polymer Film
ACS Petroleum Research Fund
\$75,000 39 months

Hammes-Schiffe, S., Hurley, M.
Computational Studies of NADH Hydride Transfer
Pittsburgh Supercomputing
\$0 12 months

Hartland, G.
Ultrafast Studies of Nanometer Sized Semiconductor Clusters
National Science Foundation
\$428,411 48 months

Sevov, S.
Synthesis, Structure and Properties of Metal Borophosphates
National Science Foundation
\$487,846 48 months

Computer Science and Engineering

Sha, H.
Architectures and Code Generations for Nested Loops
National Science Foundation
\$116,050 36 months

Hu, X.
Performance Analysis and Tradeoff for Design Exploration
National Science Foundation
\$206,716 48 months

Freeh, V.
Highly Functional Memory
National Science Foundation
\$214,716 48 months

THE GRADUATE SCHOOL OFFICE OF RESEARCH

Electrical Engineering

Snider, G., Merz, J., et al.
Scanning Probe Microscopy
Department of the Navy
\$140,711 36 months

Mathematics

Yin, H.
Analysis of Induction Heating in Electromagnetic Fields
National Science Foundation
\$80,247 36 months

Buechler, S.
General Frameworks for Classification Theory
National Science Foundation
\$163,342 36 months

Sommese, A., Migliore, J.
Midwest Algebraic Geometry Conference
National Science Foundation
\$9,700 6 months

Migliore, J., Peterson, C.
Generalized Liaison Theory
National Security Agency
\$50,536 24 months

Generalized Liaison Theory
National Science Foundation
\$138,810 36 months

McNinch, G.
Representation Theory of Algebraic Groups
National Science Foundation
\$76,904 36 months

Hu, B.
Nonlinear Partial Differential Equations and Applications
National Science Foundation
\$67,145 36 months

Stanton, N.
Partial Differential Equations and Several Complex Variables
National Science Foundation
\$133,614 36 months

Physics

Bunker, B.
XAFS Studies of Ordering in Liquids Near Interfaces
National Science Foundation
\$258,094 36 months

Schiffer, P.
Novel Low Temperature Behavior in Materials
National Science Foundation
\$447,625 60 months

Barabasi, A.
Driven Interfaces in Random Media
National Science Foundation
\$279,652 60 months

Glazier, J.
U.S.-Brazil Cooperative Research: Cellular Patterns
National Science Foundation
\$63,924 24 months

Ruggiero, S., Blackstead, H.
Network Analyzer for YBCO Device Design Facility
Purdue University
\$50,800 12 months

Livingston, A.
Studies of Rydberg States
National Institute of Standards and Technology
\$53,957 12 months

Mathews, G., Wilson, J.
Gravity Waves and Binary Neutron Star Hydrodynamics
National Science Foundation
\$208,740 36 months

Sarid, U.
Searching for Symmetries Near and Far
National Science Foundation
\$661,423 60 months

Johnson, W.
Autoionizing Rates for Ions
Lawrence Livermore National Laboratory
\$31,000 12 months

Furdyna, J., Barabasi, A.
Self-Organized Superlattice Formation in Semiconductors
Department of Energy
\$361,004 36 months

Science

Castellino, F., Buechler, S.
Development of Walther Cancer Research Center
Walther Cancer Institute
\$1,194,280 60 months

Sociology

Hachen, D., Davern, M.
Social Networks and Labor Market Mobility
National Science Foundation
\$4,425 12 months

THE GRADUATE SCHOOL OFFICE OF RESEARCH

PROPOSALS FOR FACILITIES AND EQUIPMENT

Chemical Engineering

Miller, A.
In-Situ Studies of Electrochemical Patterning
Purdue University
\$20,000 12 months

McGinn, P.
High Temperature Furnace
Purdue University
\$21,426 12 months

Physics

Schiffer, P., Furdyna, J., et al.
Acquisition of a SQUID Magnetometer
National Science Foundation
\$158,500 12 months

PROPOSALS FOR INSTRUCTIONAL PROGRAMS

Chemical Engineering

Brennecke, J., Stadtherr, M., et al.
Minimizing Environmental Impact
National Science Foundation
\$324,949 36 months

Chemistry and Biochemistry

Morris, K.
ICE Network Program
University of Wisconsin
\$4,000 7 months

PROPOSALS FOR SERVICE PROGRAMS

Chemical Engineering

Brennecke, J.
AIChE Gender Issues Luncheon
National Science Foundation
\$1,000 3 months

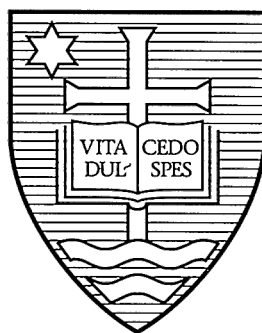
PROPOSALS FOR OTHER PROGRAMS

Alliance for Catholic Education

Scully, T.
Learn and Serve America: Higher Education
Corporation for National Service
\$153,253 12 months

Graduate School

Hatch, N.
Pew Younger Scholars Program
Pew Charitable Trusts
\$2,349,000 36 months



NOTRE DAME REPORT

Volume 26, Number 8

December 13, 1996

Notre Dame Report (USPS 707-080) is an official publication published fortnightly during the school year, monthly in the summer, by the University of Notre Dame, Office of the Provost. Periodical postage paid at Notre Dame, Indiana. *Postmaster:* Please send address corrections to: Records Clerk, Department of Human Resources, Security Building, University of Notre Dame, Notre Dame, IN 46556.

Linda M. Diltz, Editor
Marten Schalm, Designer
Erin Gallavan, Publication Assistant
Gerard Jacobitz, Indexer
Publications and Graphic Services
415 Main Building
Notre Dame, IN 46556
(219) 631-5337
e-mail: Diltz.1@nd.edu

© 1996 by the University of Notre Dame, Notre Dame, IN 46556. All rights reserved.

