

The University

- 187 Notre Dame Receives Thibeault Award
 187 Keough and O'Neill Families Underwrite Dorms
 187 Merck Supports Minority Engineering Program
 88 Boulduc Named Sorin Society Chairman

- 188 Accounting Ranks Fifth in Nation
- 188 Alumni Earn More Doctorates
- 188 Leighton Receives Tribute

DOCUMENTATION

- 195 Opening Mass Homily
- 196 President's Address to the Faculty
- 203 Board of Trustees Executive Summary May 5–6, 1994 204 University Committee on Libraries
- April 26, 1994 September 22, 1994
- 206 Faculty Board in Control of Athletics September 12, 1994

NOVEMBER 4, 1994

FACULTY NOTES

189 Honors 189 Activities

0

The Graduate School

207 Current Publications and Other Scholarly Works

NUMBER 5

Notre Dame Receives Thibeault Award

The University has been named recipient of the American Society for Quality Control's 1994 Anita Thibeault Award for educating students in quality engineering and management concepts.

A \$15,000 grant accompanied the award, which was presented by the society's Biomedical Division. The grant will be used both to enhance an existing elective course, Statistical Quality Methods, taught by Raymond M. Brach, associate professor of aerospace and mechanical engineering, and to purchase library materials on the subject of quality control.

Statistical Quality Methods was first offered to engineering students in the 1991 fall semester and has grown from an initial enrollment of five students to its current 29, including six chemical engineering majors. The course introduces quality engineering methods through three main topic areas — statistical concepts and methodology, quality control methods, and the study of experimental designs incorporating quality control methods.

Keough and O'Neill Families Underwrite Dorms

Notre Dame's first new men's residence halls in a quarter century will be underwritten with gifts from Donald R. Keough, chairman emeritus of the Board of Trustees, and the family of the late Joseph I. O'Neill Jr., an emeritus 'trustee and 1937 Notre Dame alumnus.

Keough, on behalf of his family, will underwrite construction of Marilyn M. Keough Hall, named in honor of his wife, the mother of five Notre Dame graduates. Mrs. Keough and her husband also have given their names to the center and chair in Irish studies established by them. Donald Keough, who in 1993 retired as president and chief operating officer of The Coca-Cola Company, now is chairman of the board of Allen & Company Incorporated. He was chairman of Notre Dame's trustees from 1986 to 1992, during which time he also served as national chairman of the Strategic Moment capital campaign, the most successful fund-raising effort in the history of American Catholic higher education. He was the 1993 recipient of the Laetare Medal, the most prestigious award given to American Catholics, and was awarded an honorary doctorate by the University in 1985. Elected a trustee in 1978, he also has served as chairman of the Sorin Society, which encourages unrestricted gifts to the University.

O'Neill Family Hall will be underwritten by gifts from the estate of Joseph O'Neill Jr.; from his daughter and son-inlaw, Helen and Charles Schwab; and from his son, Joseph I. O'Neill III.

Joseph O'Neill Jr. earned a bachelor's degree in commerce from the University in 1937 and was a two-time football monogram winner. He was a member of the FBI following service in World War II, then founded O'Neill Properties, Ltd, an oil and investments firm, in Midland, Tex., in 1948. He was active in the firm until his death in 1991. President of the Notre Dame Alumni Association in 1956, he was elected the following year to the University's advisory board of lay trustees. When governance of Notre Dame passed to a newly-constituted board in 1967, he became one of its charter members and served in that role until his election as an emeritus trustee in 1985. O'Neill also played a lead role in one of the pivotal events in the University's academic advancement in the 1960s. When the Ford Foundation selected Notre Dame as one of five recipients of its challenge grants to promising universities, he served as general chairman of the fund-raising campaign that successfully met the foundation's challenge.

Keough and O'Neill Halls, to be built on land currently occupied by the golf course, each will house approximately 275 men. Construction will begin in early spring of 1995 and the halls are scheduled to be occupied for the 1996 fall semester.

Merck Supports Minority Engineering Program

Notre Dame has received a \$150,000 commitment from Merck & Co., Inc., of Whitehouse Station, N.J., in support of scholarships in the Minority Engineering Program (MEP).

The grant, to be paid over a three-year period, will provide scholarship support for nine students participating in the MEP for three academic years beginning with the sophomore year.

The MEP was established in 1987 to attract, encourage and retain minority students working toward engineering degrees. The program includes collaborative student workshops, faculty and professional mentors, and professional development activities.

Bolduc Named Sorin Society Chairman

J.P. Bolduc, president and chief executive officer of W.R. Grace & Co., is the new chairman of the Edward Frederick Sorin Society, made up of alumni and other benefactors who contribute \$1,000 or more annually to Notre Dame in unrestricted gifts.

Bolduc, who also is a member of the advisory council for graduate studies and research, succeeds Alfred C. DeCrane Jr., chairman of the board of Texaco Inc., as head of the Sorin Society.

Bolduc was appointed chief executive officer of Grace in January 1993 and is the first CEO in the company's 140year history who is not related to its founder, William Russell Grace. He was elected president and chief operating officer of the company in 1990 after having served as chief financial officer and a vice chairman beginning in 1986. He joined Grace in 1983 as a senior vice president.

Boulduc served from 1982 to 1984 as chief operating officer of President Reagan's Private Sector Survey on Cost Control in the federal government. Previously he served as a vice president and partner of the international management and consulting firm, Booz-Allen & Hamilton Inc., from 1977 to 1983. Earlier he served as an assistant secretary in the U.S. Department of Agriculture as an appointee of Presidents Nixon and Ford.

Bolduc was graduated from St. Cloud University with a degree in accounting and in 1983 was awarded the university's distinguished alumni award.

He is a trustee of the National Public Radio Foundation, the Hugh O'Brian Youth Foundation, and the Miami Dolphins. He also is a director of the National Forum Foundation, the Sovereign Military Order of Malta, and the Citizens Against Government Waste Foundation. He is a strong supporter of the YWCA of the City of New York and during the past year has been honored for his public and humanitarian service by the Appeal of Conscience Foundation, the Crohn's and Colitis Foundation, and the Flax Trust. He is a director of several public and private companies including Kenny Rogers Roasters Corp., Brothers Gourmet Coffees, Inc., Newmont Mining and Gold Corporation, Sundstrand Corp., Unisys Corp., and Marshall & Ilsley Corp.

Accounting Ranks Fifth in Nation

The Notre Dame undergraduate accounting program is ranked fifth in the nation in the 13th annual survey conducted by *Public Accounting Report*, an independent newsletter for the accounting profession.

For the survey, 150 accounting department chairs and professors from 90 colleges and universities were asked to rank accounting firms and university accounting programs. Notre Dame annually has ranked among the top 10 programs in the survey. The Universities of Illinois, Texas, and Southern California and Brigham Young University finished first through fourth, while the University of Michigan shared fifth place with Notre Dame.

Alumni Earn More Doctorates

Notre Dame ranks first among U.S. Catholic colleges and universities in a new study that tracks the baccalaureate origins of doctoral recipients over the past three decades.

Published in the fall 1994 issue of the *Delta Epsilon Sigma Journal*, the study ranked Catholic institutions of higher learning according to the total number of undergraduate alumni who went on to earn doctorates in the 1960s, '70s, and '80s. Notre Dame topped the rankings by a wide margin with 2,463 graduates who subsequently received a doctoral degree. Fordham University was second with 1,863, followed by Boston College with 1,800. Notre Dame also ranked first in each decade.

Leighton Receives Tribute

In tribute to Mary Morris Leighton for her patronage of the South Bend Symphony Orchestra, the University has underwritten the symphony's 1994–95 Mosaic concert series. This year's series will consist of four concerts.

The first was "A Tribute to Women in Music — A Sesquicentennial Celebration" which featured composer Libby Larsen, planist Beverly Simms and Nancy Menk directing the Saint Mary's College Women's Choir and the South Bend Chamber singers. The concert included the premiere performance of Larsen's "Canticle of Mary (Magnificat)," composed in honor of Saint Mary's 150th anniversary. The other concerts are "Salute to Our Sister City" which will feature a guest artist from Czestochowa, Poland, "A Sunday of Music" and "First Class Brass" which will feature the South Bend Symphony Orchestra Chamber Ensemble.

Honors

Steven C. Bass, Schubmehl-Prein chairman and professor of computer science and engineering, was appointed a member of the Distinguished Service Award Committee of the Circuits and Systems Society of the Institute of Electrical and Electronics Engineers from July 1, 1994, through June 30, 1995.

Maureen T. Hallinan, White professor of sociology, has been elected president of the American Sociological Association. This year she is serving as president-elect of the association in preparation for assuming the presidency in August 1995. With more than 13,000 members, the association is concerned with sociology both as a scientific discipline and as a profession, and it encompasses the academic community as well as researchers and practitioners in government, business and nonprofit organizations.

Ahsan Kareem, professor of civil engineering and geological sciences, was elected president of Wind Engineering Research Council (WERC) Inc., for a four-year term, WERC is a U.S. National Organization focusing on identifying national research needs, stimulating research and disseminating information on wind effects on structures and environmental aspects. He has served as a member of the board of directors of WERC for the past three years.

Kwan S. Kim, professor of economics and faculty fellow in the Kellogg Institute, has been appointed a member of the advisory committee of economics curriculum at Facultad Latinoamericana de Ciencias Sociales (Latin American Institute of Social Sciences) in Ecuador.

David C. Leege, professor of government and international studies, received the award for best convention paper from the section on Religion and Politics, American Political Science Association, for "The Decomposition of the Religious Vote, 1960–92" at the APSA annual convention in New York, N.Y., Sept. 2.

Scott Mainwaring, professor of government and international studies, has been appointed a member of the research board of the International Forum for Democratic Studies which was created by the National Endowment for Democracy.

Dennis J. Stark, assistant professor of physical education and director of aquatics, was elected president of the board of directors of Corvilla in South Bend, Ind., June 28. Corvilla is a residential service agency providing long- or short-term living for persons who have mental retardation or other developmental disability who would benefit by a community-based group home. He was elected to serve a second term as a board member of the American Red Cross of St. Joseph County, Ind.

Activities

Esmée Cromie Bellalta, associate professor of architecture, was invited to teach at Harvard University's Graduate School of Design: Department of Landscape Architecture in Cambridge, Mass., spring semester. She gave an invited lecture "Abstraction or Reality: Universal Reference" at the Graduate School of Design at Harvard, May 11. She presented the invited lecture "Urban Vest-pocket Pasts" to environmental design students at Corbusier's Carpenter Center at Harvard, Cambridge, Mass., April 29.

William B. Berry, associate chairperson and professor of electrical engineering, with Patrick D. Wolf and Joseph A. Finnerty, presented the Irish Racing Team's Electric Race Car and a talk titled "Future Developments for the Electric Race Vehicle" at the Electricore Meeting in Ft. Wayne, Ind., July 27-28. He presented a talk titled "The University of Notre Dame's Energy Analysis and Diagnostics Center: An Industry Energy Conservation Program" at the State of Indiana Department of Commerce "Industrial Energy Efficiency Seminar" in Indianapolis, Ind., Oct. 5. Along with representatives of 12 other universities, Berry established the "University Consortium for Electric Vehicle Racing Technology" at a meeting in Columbus, Ohio, Oct. 7-8. The organization will promote the development of electric vehicle technology with emphasis on education, design and ethics using the race format to demonstrate achievement.

Ikaros Bigi, professor of physics, gave the lecture "A QCD Treatment of Heavy Flavour Decays Without Voodoo and Undue Incantations" at the HEP seminar of the Paul-Scherrer-Institut at the ETH Zurich, Switzerland, May 27, at the RWTH Aachen, June 21, and at DESY, Hamburg, Germany, June 22. He organized a series of seminars on "B physics at LEP" and presented, as part of it, a seminar on "Beauty and Charm Fragmentation" at CERN, Geneva, Switzerland, June 3. He delivered the invited talk "Extracting KM Parameters from Beauty Decays" at a conference on "CP Violation" held at the TECHNION, Haifa, Israel, June 8. He gave a talk on "Heavy Flavour Lifetimes" at the HEP seminar of the University of Padova, Italy, June 2.

Howard A. Blackstead, associate professor of physics, gave the invited talk "Quantum' Confined Metallic Oxygen, the Key to High Temperature Superconductivity" as the College of Science Distinguished Scholar Lecture at the University of Notre Dame, Notre Dame, Ind., April 20. He gave the seminar "Confined Divalent Metallic Oxygen: The Key to High Temperature Superconductivity" at the Department of Physics and Astronomy at the University of Missouri in Columbia, Mo., April 27. He presented "Quantum' Confined Metallic Oxygen, the Key to High Temperature Superconductivity" to the Phys-

FACULTY NOTES

ics Department Colloquium at the University of Missouri, April 27. He gave the contributed talks "Oxide Superconductivity" and "Superlattice Model of Superconductivity" co-authored with J.D. Dow at the Electrochemical Society Meeting in San Francisco, Calif., May 22. He gave the Chemistry Department Colloquium "The Role of Neutral Oxygen in High Temperature Superconductors" at San Jose State University in San Jose, Calif., May 27. He presented "'Quantum' Confined Metallic Oxygen, the Key to High Temperature Superconductivity" at the Solid State Seminar at Purdue University in West Lafayette, Ind., June 15. He gave the contributed talks "Charge-Distribution in YuPr1-uBa2Cu3Ox" with J.D. Dow, J.F. Federici, W.E. Packard and David B. Pulling, assistant professional specialist in physics, "Depression of T_c Caused by Nd⁺³ Pair-Breaking in NdBa₂Cu₃O_x" with J.D. Dow, W.E. Packard and D.B. Pulling, and "Evidence of Superconductivity in PrBa₂Cu₃O₇" co-authored with D.B. Chrisey, J.D. Dow, J.S. Horwitz, A.E. Klunzinger and D.B. Pulling at the fourth international conference on Materials and Mechanisms of Superconductivity, High Temperature Superconductors in Grenoble, France, July 6.

Joan F. Brennecke, associate professor of chemical engineering, presented an invited talk titled "The Influence of Molecular Interactions on Reaction Kinetics in Supercritical Fluids" in the Department of Chemical Engineering at Massachusetts Institute of Technology in Cambridge, Mass., Sept. 16.

John A. Bumpus, associate faculty fellow in the Center for Bioengineering and Pollution Control and associate professor of chemistry and biochemistry, made a presentation titled "Biodegradation of Organic Pollutants Using Fungi" at the annual meeting of the Southern Great Lakes Local Section of the Society of Industrial Microbiologists in Notre Dame, Ind., Oct. 8.

Bruce A. Bunker, professor of physics, presented the invited talk "The IXS Database Project" and co-authored the paper "Glancing Angle XAFS and X-Ray Reflectivity Study of Cu Thermal Vibration Amplitude at the Cu-Al₂O₃ Interface" at XAFS8, the eighth international XAFS conference, in Berlin, Germany, Aug. 29–Sept. 3.

Francis J. Castellino, dean of science and Kleiderer-Pezold professor of biochemistry, presented a seminar titled "Structure-function Relationships of Kringle Domains" to the Biotechnology Research Institute of the National Research Council of Canada in Montreal, Quebec, Canada, Sept. 28.

Danny Z. Chen, assistant professor of computer science and engineering, gave the invited talk "On the All-Pairs Euclidean Short Path Problem" at the Institute of Applied Mathematics, Academia Sinica, in Beijing, China, Aug. 24, and at the Institute of Systems Science, Academia Sinica, Beijing, China, Aug. 26. He gave the presentation "Fast and Efficient Operations on Parallel Priority Queues" at the fifth international symposium on Algorithms and Computation in Beijing, China, Aug. 25–27.

Leonard F. Chrobot, adjunct professor of sociology, presented an invited paper "Inculturation: A Response to the Multicultural Reality of the Catholic Church in America" to the annual convention of the National Conference of Diocesan Vocation Directors in Philadelphia, Pa., Sept. 22.

Sr. Regina A. Coll, C.S.J., professional specialist in theology, served as visiting professor at Loyola Institute for Ministry in New Orleans, La., June 13–July 1. She gave a retreat for Ursuline Sisters in St. Joseph, Ky., July 10–16. She presented three lectures to the Sisters of the Holy Name of Jesus and Mary in Portland, Oreg., Aug. 10–11.

Edmundo Corona, assistant professor of aerospace and mechanical engineering, presented a paper titled "Bending and First Failure of Composite Circular Cylinders" at the international conference on Composites Engineering in New Orleans, La., Aug. 27–29.

Daniel J. Costello Jr., chairman and professor of electrical engineering, gave the invited paper "Alternatives to Complex Convolutional Codes" at the Allerton Conference on Communication, Control and Computing in Monticello, Ill., Sept. 28.

Lawrence S. Cunningham, chairperson and professor of theology, gave seven conferences on "Ecclesiology and Monasticism" at the Abbey of Gethsemani, Ky., Aug. 1–4. He served as an invited theological consultant to the summer seminar on contemporary theology and literary criticism at Calvin College in Grand Rapids, Mich., Aug. 8–10. He presented "Theology of Prayer" to the CCFM participants at Holy Cross College in Notre Dame, Ind., Aug. 29. He was interviewed as a theological spokesperson for a video on angels produced by JMR Productions in Chicago, Ill., Sept. 17. He gave the address "Reflections on the New Catechism" to the Advisory Council of the Notre Dame Institute for Church Life in Notre Dame, Ind., Sept. 22.

James T. Cushing, professor of physics, presented the invited paper "Quantum Tunneling Times in Bohm's Theory" at the third U.K. conference of the Foundations of Quantum Theory and Relativity held in Cambridge, England, Sept. 13–16. He presented the invited talk "What Measurement Problem?" at the conference on Conceptual Problems of Relativistic Quantum Mechanics at the University of Western Ontario in London, Ontario, Canada, Oct. 7–9.

Rev. Regis Duffy, O.F.M., associate professor of theology, gave a series of eight talks to the priests of the diocese of Gary, Indiana, on "Worship and Sacrament in the Contemporary World" in Mundelein, Ill., June 13–16.

William G. Dwyer, professor of mathematics, gave an invited talk titled "Splittings for Groups and Loop Spaces" at the Upstate New York Topology Seminar held at the University of Syracuse in Syracuse, N.Y., Sept. 24.

James P. Earley, assistant faculty fellow in civil engineering and geological sciences, presented "Bioremediation of Hazardous Wastes in Soils" at the annual meeting of the Southern Great Lakes Local Section of the Society of Industrial Microbiologists in Notre Dame, Ind., Oct. 8.

Leonid Faybusovich, associate professor of mathematics, gave the invited lecture titled "Quadratic Semi-definite Programming: Theory and Applications" in the IEEE European workshop on Computer-Intensive Methods in Control and Signal Processing in Prague, Czech Republic, Sept. 7–9. He gave a talk titled "Interior-point Methods as a Tool for Solving Control Problems" in the seminar on Optimization and System Theory at the Royal Institute of Technology in Sweden, Sept. 30.

Barbara J. Fick, associate professor of law, presented "Recent Developments under Title VII and the ADEA" at a workshop for judges of the First and Seventh Circuits sponsored by the Federal Judicial Center in Traverse City, Mich., Sept. 28.

Umesh Garg, associate professor of physics, gave the invited talks "Lifetime Measurement and Shape Coexistence in Nuclei" at the University of Tennessee in Knoxville, . Tenn., May 11. He presented "Evidence for the Isoscalar Giant Dipole Resonance in Inelastic Alpha Scattering at and near 0°" at the international conference on Selected Topics in Nuclear Structure in Dubna, Russia, July 5–9, at the Russian Research Centre-Kurchatov Institute in Moscow, Russia, July 11, at the Soltan Institute of Nuclear Studies in Swierk, Poland, July 12, and at the symposium on Nuclear Structure and Reaction Dynamics — The Interface in Washington, D.C., Aug. 21–22.

Kimberly A. Gray, assistant professor of civil engineering and geological sciences, organized and chaired a session titled "Physical and Chemical Treatment to Enhance the Bioremediation of Hazardous Waste" at the AIChE annual summer meeting held in Denver, Colo., Aug. 15. She presented the paper "Destruction of Dioxin on Soils: Radiolysis of Model and Real Soils" co-authored by Roger J. Hilarides, and was co-author of a paper presented by Jonathan Noris titled "Treatment of High Selenium Wastewaters" at that meeting. Gray gave the invited presentation titled "Radiolytic Treatment of Dioxin Contaminated Soils" co-authored with Roger J. Hilarides at the ninth international meeting on Radiation Processing in Istanbul, Turkey, Sept. 14. She co-authored the presentation given by Daniel Schmelling titled "Organic and Inorganic Transformation Products of TNT Photocatalysis" at the ACS symposium on Emerging Technologies in Hazardous Waste Management VI in Atlanta, Ga., Sept. 19.

Paula Higgins, associate professor of music, gave two invited lectures "Gender, Genius, and the Woman Composer: The Creative Dilemma of Fanny Mendelssohn Hensel" as part of the Voices of Women symposium and "Early Music, Popular Culture, and the 'Return of the Middle Ages'" as part of the symposium Early Music on the Move: The Case of Beethoven's Ninth at the Berkeley International Music Festival held at the University of California in Berkeley, Calif., June 6-11. She delivered two invited papers "Musical 'Parents' and their 'Progeny': The Discourse of Creative Patriarchy in Early Modern Europe" and "Love and Death in the Fifteenth-Century Motet: A Reading of Busnoys's Anima mea liquefacta est/ Stirps Jesse" at the 22nd annual conference on Medieval and Renaissance Music held at the University of Glasgow, Scotland, July 10-13.

Alex A. Himonas, assistant professor of mathematics, organized with Mei-Chi Shaw, professor of mathematics, a special session on "Several Complex Variables and Partial Differential Equations" at the meeting of the American Mathematical Society Central Section in Manhattan, Kans., March 25–26. Himonas gave a talk titled "Analytic Hypoellipticity for Generalized Baouendi-Goulaouic Operators" at that meeting. He gave a colloquium talk "On Regularity of Solutions to Degenerate Elliptic PDE's" in the Department of Mathematics of the University of North Florida in Jacksonville, Fla., Sept. 16.

Thomas Jemielity, professor of English, delivered the paper "Pope's 1743 *Dunciad*: Beating a Dead Blackmore?" at the annual meeting of the Northeast American Society for Eighteenth-Century Studies at Fordham University in New York, N.Y., Oct. 7.

Ahsan Kareem, professor of civil engineering and geological sciences, chaired a technical session titled "Damping Systems for Controlling Wind Induced Motion" and presented a paper titled "Damping Systems for Controlling Wind Induced Motions of Structures" co-authored with Y. Tamura of the Tokyo Institute of Polytechnic in Tokyo, Japan, and the paper "Methods to Control Wind Induced Building Motions" at the American Society of Civil Engineers Structures Congress XII held in Atlanta, Ga., April 24–28. He chaired a special meeting of the Task Committee titled "Damping Systems" and attended a meeting of the editorial board of *Structural Engineering Journal* as one of the associate editors. He attended meet-

ings of the following technical committees of ASCE: Wind Effects, Dynamic Effects, Aerodynamics and Experimental Methods and Analysis.

Lloyd H. Ketchum Jr., associate professor of civil engineering and geological sciences, made a presentation titled "Introduction to Bioremediation Research in the Center for Bioengineering and Pollution Control" at the annual meeting of the Southern Great Lakes Section of the Society of Industrial Microbiologists in Notre Dame, Ind., Oct. 8.

Catherine Mowry LaCugna, professor of theology, lectured on "The Church: Icon of the Trinity" in Cairns, Queensland, Australia, July 21. She gave the workshop "Images of God and their Implications for the Theological, Pastoral, and Liturgical Life of the Church" at Newman College in Melbourne, Victoria, Australia, July 23. She gave the Shirley Macdonald Memorial Lecture titled "Enriching the Sacramental Life of the Church. Expanding Roles in Theology and Ministry" at the Star of the Sea College in Melbourne, Victoria, Australia, July 25. She presented a colloquium titled "The Christian Experience of God," served on a panel discussion and gave the lecture "The Church: Icon of the Trinity" at Christ Campus, Australia Catholic University, in Melbourne, Victoria, Australia, July 26-27. She gave the keynote lecture at the Women and the Australian Church Conference titled "Women as Ministers and Theologians in the Church Today" and served on a panel discussing "Women in Theology Today" at Our Lady of Mercy College in Parramatta, N.S.W., Australia, July 30-31. LaCugna lectured on "A Church for Our Times: What Is at Stake?" at the Catholic Adult Education Centre in Sydney, N.S.W., Australia, Aug. 3. She gave the workshop "Who Is God for Us? Exploring How Our Images of God Affect Our Everyday Life and Worship" at Sydney Adventist College in Sydney, N.S.W., Australia, Aug. 4. She gave the colloquium "Trinity and Other Theological Topics" and the lecture "The Church: The Inclusive Household of God" in Brisbane, Queensland, Australia, Aug. 9.

David C. Leege, professor of government and international studies, served as one of the two U.S. representatives at the Conference on Comparative Election Studies held by the International Committee for Research on Elections and Representative Democracy in Berlin, Germany, Aug. 19–21. He chaired the panel "Religion and the American Mass Public" at the annual convention of the American Political Science Association in New York, N.Y., Sept. 2–5.

David T. Link, Matson dean and professor of law, gave the keynote talk titled "Notre Dame Law School: A Different Kind of Lawyer" at the President's Luncheon for Michiana Business Leaders at the University of Notre Dame, Notre Dame, Ind., Oct. 5. A. Eugene Livingston, professor of physics, presented a paper titled "Measurement of Fine Structure Transition Energies for n=2 States in Helium-like Ions" and co-authored a paper titled "Spectral Distribution of the Two-Photon Decay of Helium-like Krypton" at the seventh international conference on the physics of Highly-Charged Ions in Vienna, Austria, Sept. 19–23. He presented an invited talk titled "Measurements of Radiative and Relativistic Corrections in Highly-Charged Ions" at the international workshop on Lamb-Shift Measurements in Highly-Charged Ions in Darmstadt, Germany, Sept. 26–27.

Nicos Makris, assistant professor of civil engineering, presented a paper titled "Dynamic Analysis of Generalized Viscoelastic Systems with the Boundary Element Method" at the second international conference on Computational Structures Technology in Athens, Greece, Aug. 30–Sept. 1.

Anthony N. Michel, McCloskey dean and Freimann professor of electrical engineering, presented the paper titled "Stability Analysis of Hopfield Neural Networks with Delays" with Hui Ye and chaired a technical session titled "Neural Networks and Learning Control" at the 32nd annual Allerton conference on Communication, Control and Computing at the University of Illinois in Champaign-Urbana, Ill., Sept. 28–30.

Rev. Wilson D. Miscamble, C.S.C., associate professor of history, chaired and acted as discussant on a panel on "American Diplomacy Toward Germany 1945–1955" at the 20th annual meeting of the Society for Historians of American Foreign Relations in Waltham, Mass., June 25. He presented the address "Kennan Nitze and the Origins of Containment" at the National War College of the National Defense University in Washington, D.C., Sept. 15. He gave the address "Kennan and the Problem of Containment" at the History Department of Ohio University in Athens, Ohio, Sept. 26. He led an invited seminar on his book, George F. Kennan and the Making of American Foreign Policy, 1947-1950, at the Contemporary History Institute at Ohio University in Athens, Ohio, Sept. 26. He presented the Hesburgh Alumni Lecture titled "The End of the Cold War and the Future of American Foreign Policy" to the Notre Dame Club of Indianapolis in Indianapolis, Ind., Sept. 28.

H. Fred Mittelstaedt, associate professor of accountancy, presented "Factors Underlying the Decision to Reduce Coverage in Employer-sponsored Retiree Health Care Plans" at the 1994 Miami University Pension and Retirement Research Conference in Oxford, Ohio, June 3. He gave that same presentation to the Department of Accounting Research Workshop at Columbia University in New York, N.Y., Oct. 7.





Alven Neiman, assistant dean and concurrent associate professor in the arts and letters core course, gave the paper titled "Rorty's Dewey: Philosophy, Education and the Public Sphere" at the biennial meeting of the International Network of Philosophers of Education at Catholic University of Leuven, Belgium, Aug. 17–20.

James S. O'Rourke IV, associate professional specialist in the College of Business Administration, concurrent associate professor of management and director of the Center for Business Communication, presented a case study titled "Excel Industries, Inc: Family Issues of Employees — A Conflict with the Public Perception" to the 1994 conference of the European Business Network at the University of St. Gallen, Switzerland, Sept. 14–16.

Catherine Perry, instructor in Romance languages and literatures, delivered the paper "Anna de Noailles' Revision of 'l'absente de tous bouquets'" at the Mallarme: Music, Art, Letters conference at Indiana University in Bloomington, Ind., Sept. 25.

Alvin Plantinga, O'Brien professor of philosophy, presented "Christian Philosophy at the end of the 20th Century" at a conference titled Christian Philosophy at the Close of the 20th Century held in Hoeven, The Netherlands, Aug. 23.

Wolfgang Porod, professor of electrical engineering, coauthored the presentations "Electronic Scattering States in the Vicinity of Defects in Open Two-Dimensional Electronic Systems" with Henry K. Harbury and "Quantum Cellular Automata" with Craig S. Lent, associate professor of electrical engineering, and P. Douglas Tougaw at the 21st international symposium on Compound Semiconductors held in San Diego, Calif., Sept. 19–22. He served on the Technical Program Committee of that conference (subcommittee on Simulation and Modeling).

Dean A. Porter, director of the Snite Museum and professor of art, art history and design, delivered two lectures on "Collecting Art Created West of Patterson, New Jersey" at the Eiteljorg Museum for American Indian and Western Art in Indianapolis, Ind., July 15. He conducted a Museum Assessment Program of the University Gallery for the American Association of Museums at the University of Memphis in Memphis, Tenn., Aug. 14–16. He delivered the lecture "Patronage in Taos, New Mexico: 1898–1960" at the Harwood Foundation Museum of the University of New Mexico in Taos, N.Mex., Oct. 9.

John E. Renaud, Clark assistant professor of aerospace and mechanical engineering, presented a paper titled "Design Driven Concurrent Optimization in System Design Problems Using Second Order Sensitivities" and chaired a session titled "Design Optimization" at the AIAA/NASA/USAF/ISSMO fifth symposium on Multidisciplinary Analysis and Optimization in Panama City, Fla., Sept. 7–9.

Charles E. Rice, professor of law, taught on the subject of the Bill of Rights and the Fourteenth Amendment at the Judicial Seminar for federal and state judges held at the Center for Judicial Studies in Boston, Mass., Sept. 13–18.

Ken Sauer, assistant professor of electrical engineering, presented the paper "Temporal Prediction of Block Motion Vectors with Local Ambiguity-Based Adaptivity" at the SPIE symposium on Visual Communications and Image Processing in Chicago, Ill., Sept. 25–29.

Robert P. Schmuhl, chairperson and associate professor of American studies, discussed "The 1994 Political Landscape" during the radio program "Extension 720" on WGN in Chicago, Ill., Sept. 13. He delivered invited remarks on "Politics and the Media: Today and Tomorrow" at the meeting of the League of Women Voters of Elkhart County in Elkhart, Ind., Sept. 22. He talked about his new book, *Demanding Democracy*, on "Media Talk," a program of the Ideas Network of Wisconsin Public Radio, Oct. 2.

Mihir Sen, professor of aerospace and mechanical engineering, delivered a series of lectures on the "Application of Chaos Theory to Heat Transfer" at an international seminar on New Frontiers in Mechanical Engineering to celebrate the 25th anniversary of the Graduate Division of the Faculty of Engineering at the National Autonomous University of Mexico in Mexico City, Mexico, Aug. 22–26. He spoke on the "Effect of Chaotic Advection on Heat Transfer" to the faculty of Mechanical, Electrical and Electronic Engineering at the University of Guanajuato in Salamanca, Mexico, Aug. 22.

Adolph L. Soens, associate professor of English, presented "*The Invention of Flight*: Susan Neville's Local Vision of Quotidian Necessity" at NEH, ICH, Let's Talk About It, at the Elkhart Public Library in Elkhart, Ind., Sept. 28. He presented "rex quondam suturusve: Time, Wyrd and Death Cloaked in Comedy and Arthurian Costume" at Let's Talk About It, NEH, ICH, at the Middlebury Public Library in Middlebury, Ind., Oct. 4.

Michael M. Stanisic, associate professor of aerospace and mechanical engineering, presented two papers titled "Robotic Software Development Using Object-Oriented Design" with I.A.D. Nesnas and "Second-Order Geometry-Based Path Tracking of Industrial Arm-Subassemblies" with S.J. Lorenc, chaired the session "Robot Configuration Singularities" and attended a meeting of the Mechanisms Committee at the 23rd American Society of Mechanical Engineers Biennial Mechanisms Conference in

Minneapolis, Minn., Sept. 11–14. He served as the faculty advisor to the First Place Award winner, Michael Caradonna, and the Third Place Award winner, Karl Etzel, in the National Student Mechanism Design Competition which is a part of the mechanisms conference.

Rev. Patrick J. Sullivan, C.S.C., adjunct assistant professor of sociology, addressed a "Labor Day" gathering of the St. Joseph's County United Religious Community in South Bend, Ind., Sept. 1. This interfaith group was challenged to recall and support the Jewish-Protestant-Catholic heritage on behalf of union organizing of workers in manufacturing and service industries, as well as in their own religious institutions.

Anthony M. Trozzolo, Huisking professor emeritus of chemistry and biochemistry, served as session chairman at the third international symposium on Magnetic Field and Spin Effects in Chemistry held in Chicago, Ill., Sept. 25–30.

Arvind Varma, Schmitt professor of chemical engineering, authored a paper titled "A Comparison Between Uniform and Nonuniform Catalyst Distribution for Inorganic Membrane Reactors" presented at the international symposium on Synthetic Membranes in Science and Industry held in Tubingen, Germany, Aug. 29–Sept. 1. He authored a paper titled "Microstructure of Gasless Combustion Waves" presented at the Zeldovich Memorial International Conference on Combustion in Moscow, Russia, Sept. 12–16.

Kathleen Maas Weigert, faculty liaison/academic coordinator in the Center for Social Concerns, concurrent associate professor of American studies and faculty fellow in the Kroc Institute, gave a workshop for faculty on "Service Learning: The Promise and the Pitfalls of a Pedagogy" at Indiana University Purdue University in Indianapolis, Ind., Sept. 21.

Henry Weinfield, assistant professor in the Program of Liberal Studies, presented a paper titled "Containing the Uncontainable: Mallarmé and the Problem of Poetic Technique" at a conference on "Mallarmé: Music, Art and Letters" held at Indiana University in Bloomington, Ind., Sept. 23–25.

James F. White, professor of theology, gave the lecture "Inculturation in the Liturgy" to missionaries from Africa at Moreau Seminary, Notre Dame, Ind., July 2. He presented the three lectures "Advent," "Christmas" and "Epiphany" at the Region Six Convention of the Evangelical Lutheran Church of America in Fort Wayne, Ind., July 6–8. He gave three lectures "Liturgy and Justice for All," "The Building Always Wins" and "Worship and the Mega-Church" at the 39th annual Dayton Church Music Workshop in Dayton, Ohio, Oct. 11.

Eduardo E. Wolf, professor of chemical engineering, presented an invited lecture titled "Estudios Transientes de Reacciones de Oxidacion" at the XIV Simposio Iberoamericano de Catalisis in Concepcion, Chile, Sept. 12–16. He presented a paper "Infrared Thermography Studies of CO Oxidation on Supported Catalysts" coauthored by graduate student F. Qin at the 13th international symposium on Chemical Reaction Engineering (ISCRE-13) in Baltimore, Md., Sept. 25–28.

Kwang-tzu Yang, Hank professor of engineering, presented a paper titled "Experimental Study of Enhanced Heat Transfer from a Microprocessor Chip to a Ducted Oscillatory Air Flow with Zero Mean" at the first international conference on Flow Interaction held at the University of Hong Kong in Hong Kong, Sept. 5–9. During that time he presented an invited seminar on "Simulation of Full-Scale Fire Tests in a Complex Compartment" in the Department of Mechanical Engineering of the Hong Kong Science and Technology University and conducted a workshop on "Environmental Technology in Buildings" for faculty and graduate students in the Department of Building Services of the Hong Kong Polytechnic University.



Opening Mass Homily Timothy O'Meara September 11, 1994

Once again we come together to open the new academic year in prayer just as the faculty has always done since the very earliest days of the University. Once again we celebrate the Mass of the Holy Spirit in which we ask God to enlighten us in our search and give direction to our work. We do so because we believe that our search for truth in every area — in the arts or sciences, in business or law, in engineering — is implicitly a desire for the vision of God.

Today's readings from Scripture are the same as those being proclaimed in churches of many denominations throughout the world on this particular Sunday. Over a span of time these Sunday readings speak to us in the direct and simple language of the Hebrew Bible and in the words of Jesus about ideals for living a good life as members of a community of faith and learning. A year ago on this day the Gospel was from Matthew and the message was plain and simple: The forgiveness of God is infinite. At the heart of today's readings is a question from Mark — the question which Jesus put to his disciples in Caesarea Philippi:

But who do you say that I am?

And the answer which Peter gave was:

You are the Messiah.

This is the question which Jesus asks you and me this morning. Not *Who is Jesus?* but *Who do you say Jesus is?* It is a fascinating question in the sense that we will not have a complete answer before the end of time. And if the person of Jesus brings us face to face with God then Jesus' question ultimately is a question of who God is. It is in searching for answers through the centuries that we continue to enrich our faith and reveal the many faces of God.

The first time that I can remember making a statement about Jesus that did not come from a textbook was in 1950. At the time I had just left South Africa by ship for graduate studies in Princeton. 1950 had been declared a Holy Year by Pius XII, and so I broke my journey with a three-week stay in Europe. I went on a pilgrimage by motorcycle from London to Rome, stopping at every shrine and church I passed along the way. On my return to London I found a Catholic bookshop close to Westminster Cathedral. What I experienced there was absolutely amazing. The shop was full of mass-produced holy statues of the sentimental variety which were found in churches in those days, from 6 inches high to life size. And you could actually buy them! Within an hour I had

bought six 4-foot statues, which were crated and shipped to my family and friends in South Africa. In that day and age, that was a clear statement of my relationship with Jesus. Some time later I returned to that bookshop and bought several books. One was Ronald Knox's English translation of the Bible, the first Bible which I, or my family for that matter, had ever owned. Another was The Problem of Jesus, a title which intrigued me because as a mathematician I am naturally attracted to problems and because I had no idea that Jesus ever had a problem of any kind at all. As I look back I realize that my brief visits to that bookshop signaled a turning point in my life after which it became increasingly clear that it was possible to explore our faith, not apologetically, but critically with intellectual freedom and with love. Perhaps you have had similar experiences where a facet of the mystery of God appeals in one circumstance of our lives and not in another.

Just as each person is challenged, so is each age challenged to answer the question put by Jesus — *Who do you say that I am?* The art forms of a particular era reveal to us how the people of that time perceived the person of Jesus. Many images come to mind, all of them formed by artists for whom, obviously, there had been no primary description of the physical characteristics of Jesus. Nevertheless we have been given artistic portrayals of Jesus the infant, the good shepherd, the teacher, the judge, the king, the noble and ideal man, Jesus crucified and risen from the dead, Jesus human and divine.

Were these artists, through their creativity, answering in part the question that had been posed by Jesus — *Who do you say that I am*?

Prior to the Renaissance but even later in the orthodox tradition, religious art and iconography were symbolic, stylized and highly structured, in strict conformity with the Church as teacher and as patron of the arts. Arising from the individualism of the Renaissance, radically new images of the humanity of Jesus appeared, images which reached an apex in the heroic religious art of Michelangelo. From Rembrandt and his dramatic etchings of the life of Jesus through to Rouault and Chagall of the 20th century, our vision of Jesus has been enriched. Can there be any doubt that Salvador Dali has responded to the central question posed in today's Gospel through his surreal portrayal, with passion, of a transcendental vision of Jesus both human and divine.

To take the matter closer to home, right here in this basilica we have the magnificent Pieta of Mestrovich. If you have not seen this masterpiece, perhaps after Mass you could walk to the side chapel on the right of the main altar and see how the sculptor has indeed responded in his own way to the question which Jesus has posed.



Artists of song, of music, also give expression to the mystery of God. In fact, for me the most profound expression of spiritual inspiration through individual creativity comes from music, specifically from the music of Bach. We think, for example, of the St. Matthew Passion or the Bach Cantatas with their distinctive Christian imagery. But in fact, in all of Bach's compositions, people of all beliefs can find expressions of a God-filled universe. Our musicians, having led us into this celebration with an inspiring work which has no scriptural association and is simply entitled "Organ Piece BWV 572," have reaffirmed for me the fundamentally spiritual nature, intrinsic to the music itself, of the work of Bach. One of Thomas Merton's biographers says Merton would have defined monastic life using a quotation from Bach about music: It is for the glorification of God and the re-creation of humankind.

In a few minutes we will recite the ancient creed in which the Church confesses who Jesus is. But reciting who Jesus is is not enough. For if our faith is not reflected in how we treat our neighbor, in how we do our work, in the values that guide us, then, in the words of James,

What good is it, my brothers and sisters, if you say you have faith but do not have works? Faith by itself, if it has no works, is dead.

So the answer to the question of Jesus is to be realized, not in scholarly affirmation, nor in verbal acclamation, but in what we do with our lives, and in how we live in community. Many of us can recall a time - for me it was centered on 1950 - when the emphasis on faith and devotion overshadowed the emphasis on good works, both in our lives and in the apologetics of the day. Indeed James' text was perceived as something that distinguished Catholics from Protestants — Catholics for faith, Protestants for works. Can there be any doubt that Jimmy Carter's Christian faith and sense of Christian community are the inspiration for his work with Habitat for Humanity? The most prominent and beloved 20th-century spokesman for restoring our sense of belonging to and being responsible for community in the Church was John XXIII, horrified as he was in his earlier years by Hitler and the Holocaust and the events of the Second World War: Why did good people do evil things out of respect for authority? Why did individual consciences fail to accept full responsibility for their actions?

It was also to a great extent through the inspiration and encouragement of John XXIII and his *aggiornamento* that we have found whole new ways of seeing Jesus and discovering God in our lives today. We are blessed with a new breed of artists and theologians — men and women of all cultures — who through their diverse backgrounds are finding new expressions for the infinite number of images of God. We have paintings by a Carmelite sister of Reno of *The God of the Dance* and *The God who Gives Birth*. We are moved by the radically new perceptions of God's relationship with God's people that are being articulated by a leading theologian, a leading woman theologian, at Notre Dame. And in all our intellectual endeavors we have a keen sense of participating with God in revealing the grand design of the universe and transmitting it to the next generation.

All of this is to say that the mystery of God revealed to us is so vast we can never fully exhaust it — that no one image can fully capture it. Here at Notre Dame, as a community of people from many religious traditions and many intellectual and academic backgrounds, we are blessed in having access to a rich variety of ways of pursuing the truth and enriching our faith in God. At this moment, participating in the Mass of the Spirit of Wisdom, we can hardly do better than pray that we continue in our pursuit with passion, with honesty and with love.

President's Address to the Faculty Rev. Edward A. Malloy, C.S.C. October 4, 1994

Dear Colleagues,

0

At the beginning of this academic year, I sent you a letter in which I covered three main topics: (i) academic planning, with a specific focus on the evolving roles of the Academic Council and the Provost Advisory Committee (PAC), (ii) a brief description of the framework plan, which will set the context for the future physical and facility development of the campus, and (iii) a review of our budgetary situation at the end of the 1993–94 fiscal year, including the disposition of monies from unrestricted sources of revenue.

In my remarks today, I will both look back to certain significant events of the last several months as well as look forward to a number of academic challenges and opportunities that we face during this current academic year and beyond.

I. EVENTS OF THE RECENT PAST

(1) XVIII Assembly of the International Federation of Catholic Universities — From August 2 to August 6 Notre Dame played host to the world-wide Assembly of the International Federation of Catholic Universities (IFCU). Every three years delegates from Catholic universities from every continent gather on a member campus to combine intense discussion of matters of common interest and concern with social, recreational and liturgical time together. It is a prime opportunity to enlarge one's



vision of higher education and to explore possibilities for collaboration and exchange. In addition, the council of IFCU meets to chart a direction for the next three years and to elect new leadership.

The last two assemblies had been in Toulouse, France, and Jakarta, Indonesia. Only twice before had IFCU scheduled its Assembly on the North American continent, once in Boston and the other time in Toronto. So in one sense, it was a coup to have the meeting outside a large metropolitan area. On our behalf, we were eager to welcome the delegates to our campus and to acquaint them with our faculty and students, facilities and programs.

In retrospect, I can simply tell you that the assembly was a roaring success. A special thanks to Matt Cullinan, my assistant, who oversaw the planning. The logistics of handling the 400 participants went smoothly, the quality of the papers was quite high and the ensuing discussions were lively. Cardinal Pio Laghi, the head of the Vatican Congregation on Education, was present for all four days, participated by delivering a paper and leading a discussion and was highly complimentary about Notre Dame.



At the conclusion of the assembly and through letters received later many of the delegates were quite laudatory about their experience of the assembly and about their perceptions of Notre Dame. We had representatives of the Liturgical Choir and the Folk Choir, two of our student music groups, oversee the music for the liturgies and their presence was much appreciated. Many of our first time visitors were awed by the natural beauty of the campus as well as the friendliness of the people. But most of all the delegates expressed their opinion that no other Catholic university in the world is as well situated to provide academic and moral leadership for society and the Church as we are. I take these unsolicited kind words, not only as a source of comfort and re-enforcement, but also as a call to action.

I personally was reelected to the IFCU council for another term. I consider it extremely important that Notre Dame maintain and enhance its leadership role in this important international organization. The Catholic Church as a body and indeed our culture, need great Catholic universities, institutions devoted to outstanding scholarship, committed teaching and generous service in the context of full academic freedom. Let us hope and pray that we can be worthy of this high calling.

(2) The Ecumenical Institute at Tantur — In the latter part of May a number of Notre Dame faculty and administrators gathered at the Ecumenical Institute at Tantur, Israel, to participate in a special conference entitled "Fundamentalisms: Jewish, Christian, Muslim." Along with the conference we had a meeting of the advisory board of the institute. Professor Larry Cunningham, chair of our theology department, supervised the planning of the conference, invited the distinguished group of speakers, and served as host of the sessions. Rev. Tom Stransky, C.S.P., highly regarded director of Tantur, saw to the publicity at the local level and there was an excellent turnout of Jews, Muslims and Christians (Arab and non-Arab). Professors Nathan Hatch, Scott Appleby and Michael Signer (as well as Larry Cunningham and Tom Stransky) assured that Notre Dame was well represented among the formal paper presenters.

The topic of fundamentalism, which is the subject of so much scholarly evaluation today (especially the multivolume project of Martin Marty and Scott Appleby), turned out to be an ideal theme to utilize effectively the resources of Tantur. The Ecumenical Institute is on land owned by the Vatican but the building was constructed with money raised by Father Hesburgh at the behest of Pope Paul VI. We manage the property, oversee its finances and provide some subsidy to its yearly operation from an account set aside for that purpose. The library resources are excellent and the living quarters and meeting space are aesthetically attractive and comfortably laid out for scholarly activity.

The geopolitical and religious realities that make Tantur an ideal location for an ecumenical center have also limited its ability to realize all of its original goals. The property is within the present boundaries of Israel but is immediately adjacent to the West Bank, including an Israeli army check point. During our visit each day we saw several hundred Palestinians clandestinely going through our property to avoid harassment on their way to jobs in Jerusalem. Presumably, they did not have the proper documents. Memories are long and vivid in this part of the world and there has been violence on all sides. What is hopeful is that progress toward peace is being made.

Tantur has survived well despite all the obstacles. The conference on fundamentalism was a great sign of the future role that the institute might play — in promoting respectful and creative dialogue among Judaism, Christianity and Islam; in serving as an educational entry point into the history, archeology and cultures of the Holy Land; and in encouraging a first-hand exposure to the sacred sites that have been so determinative for the three great monotheistic religions.

I know that I came away from the time in Tantur eager to return and excited about the potential that the institute possesses.

(3) U.S. News and World Report Survey — I am sure that among us there are a wide variety of points of view about the significance and relative reliability of national surveys to evaluate the academic quality of whole institutions of higher education or specific programs within them. Like

it or not, this form of comparative measurement is not about to disappear. In fact, there is growing evidence that these surveys have a strong influence over where students choose to apply, particularly talented students. This seems to be true at both the undergraduate and graduate levels, and appears to have a profound impact on professional schools.

One of the dangers of these instruments is that they may be taken to have a precision that their constructors never claimed for them. The difference between 1 and 50 may be statistically verifiable but that is not the case between 1 and 10. A further problem lies in the criteria included and the relative weight they are assigned. When a given journal, like U.S. News and World Report keeps tinkering with the determinants and the assigned weight, the final results may be seen to be more or less just depending on how your own institution makes out.

My biggest fear, particularly with regard to the evaluation of professional degree programs, is that the surveys will breed a short-term mindset, much like quarterly reports of corporations are accused of doing. Schools that see themselves declining in the polls will rush in resources to one academic area of the institution to the detriment of the long-term development of the institution as a whole. This is not inevitable but it is a problem to be watched.

With all of this as a caveat, I am gratified that we jumped six places from 25 to 19 in the recent U.S. News and World Report evaluation of the undergraduate programs at national research universities. If such surveys will continue to have an influence on parents and prospective students, and I believe they will, then it is better to be included solidly among the best 25 universities in the country than in the next rank. We must be doing some things right when we appear so high in student graduation rates, alumni satisfaction, and quality of faculty, among other things. At least for this year we find ourselves ahead of Washington University, Cal Berkeley, Johns Hopkins and Georgetown. A word of thanks to all of you for bringing us to this point.

(4) Day Care Center — On Sunday, September 18, we celebrated the formal opening of the new day care facility on Bulla Road with an open house and blessing, followed by a Mass at Stepan Center and a picnic in the fields behind. Not only was it a sunny, warm day, but all the participants were excited, especially the two-, three-, fourand five-year-olds. I even got to have my face painted in the colors of the rainbow.

On the previous Friday, I had the opportunity to visit the center, in the company of Sr. Kathleen Cannon, associate provost. She, along with Roger Mullins and the board members of ECDC, was so instrumental in bringing the project to completion. Sr. Kathleen and I were delighted

with what we found. The interior of the building is so bright and attractive, and the play area outside so conducive to fun, that I felt like starting my educational journey all over again. The well-trained, professional staff was eager to show off the facility and the children entertained us with a couple of songs.

In my heart of hearts, I really believed that the original recommendation that such a facility be considered as an on-campus supplement to the Early Childhood Development Center at Saint Mary's College would be able to be speedily implemented. The Task Force Reports on Family Life and on Women, early in this administration pointed us in that direction. But as is often the case, the issues related to day care were more complicated and less easily resolved than they originally seemed. We had to determine what the demand would be, what charges could be borne by various families, what the administrative structure would be, and whether the new facility would conform to the ECDC model. The final result is, I believe, a facility and a program that everyone can be proud of. Even if you do not have young children, I encourage you to stop by for a visit. Thanks to all who carried the original proposal through to completion.

(5) Alliance for Catholic Education — This past summer a group of recent Notre Dame graduates spent a concentrated two months on the campus participating in the preparatory stages of the newly-created Alliance for Catholic Education (ACE). This is a Notre Dame effort under the direction of Father Tim Scully, C.S.C., vice president and associate provost, to provide volunteer teachers for Catholic grade schools and high schools, initially in the south and southeast regions of the country. Many of these schools serve poor children in rural and inner-city areas. Through a cooperative arrangement with the School of Education at the University of Portland, the students will receive credit for the courses taken and for the practice teaching that they did in the South Bend school district. In their various assignments, these volunteer teachers will live in communities of colleagues and will be supervised by school officials. It is hoped that those who continue in the program will attend summer program classes here next year and continue in the program for a second year. ACE has recently been awarded a fairly large Americorp Grant from the Corporation for National and Community Service.

As all of you know, Notre Dame has a strong and valued tradition of service by its students, both during their time here and after graduation. The Center for Social Concerns, Holy Cross Associates, and the service activities of the Alumni Association are all noteworthy in this regard. The nation has been placing greater urgency with each passing year on the quality of primary and secondary education, particularly in inner-city settings. The Alliance for Catholic Education, along with the newly-energized

Urban Institute for Community and Educational Initiatives, should allow us to respond with greater focus on *education* as a service priority and as an area for scholarly research and collaborative activity.

(6) Enrollment — The final figures for undergraduate admissions for 1994 show an increase of approximately 2,000 in the application pool. There are various theories to account for this increase. Our position in the U.S. News and World Report survey the previous year, the movie Rudy, our overall academic reputation, and the success of the football team are offered as possible explanations. But no one really knows for sure. The Admissions Office, under Kevin Rooney, has worked hard to increase Notre Dame's visibility and to produce attractive brochures and other informative materials. On-campus presentations to prospective students and visits to targeted high schools are also integral components of the overall effort. The yield rate from the pool of applicants has maintained the standards of academic quality while allowing us to achieve our goal of 44 to 45 percent female and 17 percent members of historical minority groups (both figures being the highest in the University's history). The situation is quite positive in general. One matter of concern is that the percentage of African-American students is still lower than we would like it to be despite signs of improvement and many efforts along this line.

The single most important determinant that influences the decision of students who are accepted but do not enroll is financial aid. If our education were free, we would probably change the mix in the student body but how much is hard to say. We are fortunate that we have had major additions to our financial aid endowments (this year almost \$10 million from unrestricted sources not counting new scholarship benefactions). Without these additional monies we would be losing ground relative to tuition inflation.

In the final analysis, admissions and financial aid go hand in hand at all academic levels. As a private university, we must charge a fairly high price in order to pay the bills. The ultimate fear is that the public will someday not consider the value of Notre Dame education to be worth what it costs. That is why we must simultaneously work on academic quality, maintaining an efficient operation and maximizing our financial resource base.

II. FUTURE ACADEMIC CHALLENGES AND OPPORTUNITIES

My initial reflections have been related to various events of the last six months or so. Now I would like to move on to the analysis of a series of crucial academic concerns that need attention from all of us during the coming year.

(1) Accreditation — Last year we participated in a University-wide 10-year accreditation visit by the North Central Accrediting Association. The results of this evaluation were quite positive in the main and we have officially been granted full accreditation for another 10 years. On the basis of the data that they received as well as feedback from representatives of the faculty, staff, administration and student body, the accreditation team tried to provide a balanced perspective which included areas for improvement. The only requirement as such was that we report back about our processes for assessment of learning outcomes. This issue of assessment is quite controversial, especially in state university systems. Skeptical legislators and parents are asking what difference a college education is making in the preparation of graduates — what are they actually learning? Whether or not we think the answer is self-evident at Notre Dame, we will still have to satisfy this requirement.

It is gratifying to be favorably evaluated by a distinguished group of peers. But there is a fundamental concern being debated at the national level about the whole function of *accreditation*. During my term of service as Chair of the American Council on Education (ACE) and through conversations with Bob Atwell, the President of ACE, I came to appreciate how divisive accreditation has become. Fundamentally, accreditation is a uniquely American system of voluntary self-regulation. It is the primary way amidst the diversity of 3,400 colleges and universities that quality can be assured. At its best it filters out non-credible institutions and programs and offers a candid view to institutions so that they may avoid complacency or exaggerated appraisals of excellence. It is because we do not have a national Ministry of Education that the voluntary accreditation system has evolved as an alternative.

There are four primary areas of concern that have called voluntary accreditation into question: (i) congressional dissatisfaction with improper monitoring of student financial aid, (ii) amendments attached to the 1992 federal Higher Education Act which mandate certain regulations, (iii) concern by administrators that specialized accreditation has gotten out of hand, and (iv) complaints about the fairness and consistency of regional accreditation groups.

The number of specialized accrediting agencies is now more than 50. Some institutions have 20 or 30 programs that need to be accredited. This is an expensive and time-consuming process. There is a suspicion that some of these specialized agencies exist to promote a specific agenda.

At the national level the Council on Postsecondary Accreditation has gone out of existence. Now efforts are under way to establish an alternative structure. Reform is in the air but the final result is still uncertain.

The aspect of this that perhaps ought to be the greatest concern for us at Notre Dame is the newly-created State Post Secondary Review Entities that will have the authority to conduct virtually a top-to-bottom review of any institution that sets off any one of the 11 triggers defined in the law. Such review includes issues of program quality, faculty hiring and placement rates. Furthermore, Congress moved toward federalizing accreditation by imposing extensive new requirements on accrediting agencies that seek recognition from the Department of Education. Only schools that receive such recognition are eligible to participate in federal student aid programs.

At Notre Dame we have our periodic outbreaks of paranoia about the potential interference of ecclesiastical figures in our legitimate autonomy as a Catholic university. We will continue to be alert to these risks. But I can honestly say that I think the potential for interference is much, much greater that the federal government will eat away through a variety of regulatory mechanisms at our distinctiveness as a private, independent institution. The cynical scuttlebutt among higher educational lobbyists in Washington is that under the last two Republican administrations we received little money and little interference but that with a Democratic administration we get less money and a lot of regulation.

(2) Computing — In 1987 the Task Force on Computing, chaired by Roger Schmitz, vice president and associate provost, issued a final report. It described the University as a "late follower" in integrating computer technology into our educational mission and recommended a major expansion of the University's computing program. In 1988 I announced dramatic plans to upgrade and expand the University's computing facilities. The commitment was to cost about \$27 million of additional funds over five years. Since that time an immense amount has been accomplished-the mainframe was replaced, new computing systems were purchased, computing clusters were opened around the campus, and a fiber-based network was put in place. Computers were made available to individual faculty. More recently, work has begun to link the campus computing network to the residence halls.

Over the summer, Don Spicer, assistant provost for computing, and his associates produced a report on the University of Notre Dame Computing Initiative which reviews the steps taken since 1988 and makes a number of recommendations about how to sustain the exciting momentum that has been achieved. A full review of this report is best left to the Academic Council, the Provost Advisory Committee and the Officers of the University, but I would like to highlight several salient points that have emerged from our experience over the last six years.

First, the provision of first-class computer facilities and services has increased both the level of use and the gen-

eral expectation for future accessibility. A good example is the DeBartolo classroom building where faculty utilization of the pedagogical technology has led to an increased demand for support personnel.

Second, exciting possibilities are opening up in our institutional participation in national and international data and communication systems. Up to now our campus has been connected to Internet at a minimal cost. However, the National Science Foundation will be reducing significantly its subsidy for this system. Future costs for accessibility are projected to go up.

Third, the need for additional staff in the computing area with the concomitant demand for more space is a less glamorous but no less compelling component of future planning in this area.

I encourage you to read this helpful report. Having made the rapid passage from a middling position to one of real strength in computing, we must continue to build on the solid foundation that has been laid.

(3) Post-Colloquy Reports - I indicated in my recent letter to the faculty at the beginning of this academic year that I will ask both the Academic Council and the Provost Advisory Committee (PAC) to receive the five post-Colloquy committee reports and to discuss what priority to give to the various recommendations in light of the more sweeping picture of the academic life recommendations of the Colloquy and relative to the prospect for funding from either increases to the operating budget or campaign targets. I further went on to suggest that the Academic Council is best suited through its committee structure to discuss proposals philosophically and to approve changes in general academic policies. The Provost Advisory Committee, on the other hand, is constitutively better prepared to recommend to the Officers of the University what priority to give to different components of the recommendations of the various post-Colloquy committees.

With this in mind I believe that we are in a favorable position at this point in our history to entertain the possibility of building into our increases in the operating budget a percentage over the next five years comparable to what we did for computing in 1988. This would have to be done within the projected guidelines for keeping tuition and room and board fees under control. It also cannot interfere with our commitment to increase significantly our resources for financial aid.

I am proposing that we try to put together a multi-million dollar commitment to one, or perhaps two, critical academic needs of the University. Over the course of the next five years this would be built into the operating budget so that the impact of this incremental increase would be substantial and ongoing.





I am convinced that we can realize all of the academic recommendations of the Colloquy over the next decade or so. Some goals are clearly dependent on successful fund raising and the building of our endowment resources. It is projected, for example, that two-thirds of the new faculty positions will have to be supported in this fashion. Yet the more quickly we can put in place the essential elements that have broad pan-University significance the more salutary the influence will be on the vitality and reputation of our academic environment.

Therefore, I would propose to all of you, but especially to the Academic Council and to PAC, that we move forward to develop a coherent, staged, realizable plan over the next five years to increase substantially the resources available through the operating budget (i) for the University libraries and (ii) for graduate education.

My personal first priority for such an infusion of funds is the University libraries. As I said in my Epilogue to the Final Report of the Colloquy, "the academic expectations of Notre Dame in teaching, learning and research depend on first-rate library resources and services. We need to expand our collections, increase the size of the library faculty and staff, plan for future space allocations, integrate the latest technology for information retrieval and assure proper preservation of materials."

The excellent Report of the Ad Hoc Committee on University Libraries specifies in great detail what is necessary and how much it will cost. This report includes recommendations for the Kresge Law Library as well. It does not seem feasible that the full scope of the recommendations of this report can be realized simply by percentage increases in the University's operating budget. But this method could make a huge difference in jump-starting the ambitious goals that the report includes. With proper discipline in the budget building process we can keep tuition increases under control and move forward with dispatch in realizing some of the academic goals of the Colloquy more quickly than would otherwise be possible.

It may be that we will have sufficient financial flexibility to implement only one costly, multi-year academic priority through increases in the operating budget. If that proves to be the case, then my top priority is the University libraries. If, however, we can entertain a more ambitious set of possibilities, then I would include the broad area of graduate education as a second priority in this budget-building strategy.

By graduate education I mean that which was included under Recommendation 14 of the Colloquy Final Report which reads, "the University must seek over the next decade an endowment for the Graduate School of \$40 to \$50 million in order to achieve excellence in graduate education. This endowment would provide funds for the recruitment and support of graduate students, with the intent to increase the number of prestigious fellowships fivefold by the end of the decade. In addition, in the same period the number of graduate assistantships should be increased by half. The value and duration of both fellowships and assistantships should be competitive with those of departments at peer institutions." Thus the challenging words of Recommendation 14.

The Report of the University Committee on Research, Scholarship and Infrastructure focused more on research climate and support systems within the graduate school than on graduate students as such. Among its recommendations it gave attention to questions such as: the budget for capitalization of new faculty and for upgrading research equipment, endowment for research development and research institutes and other matters which will enhance the support for research activity and for graduate education. Both sets of recommendations might selectively be included in the five-year plan if we are able to fund a second major priority from increases in the operating budget.

(4) The Provost Office — In a letter to the faculty this past summer Timothy O'Meara announced that he would be stepping down as provost in the summer of 1996. Tim and I have worked closely together for more than 12 years, first in the Provost's Office when I served as vice president and associate provost and most recently as president and provost, the two top officers of the University. We have always enjoyed a cordial, cooperative and mutually respectful relationship. Our disagreements have been few and were always resolved amicably.

In the 1995-96 academic year, we will have suitable occasions to celebrate Tim's many accomplishments as provost. But now that a change is in the offing in the position of chief academic officer, I will lay out how I intend to proceed in choosing the next provost.

In Article II of the Academic Articles of the University which can be found in the Faculty Handbook, it specifies, "When such an appointment is to be made, the President so advises the University through the Academic Council. The Council then elects five members from its elected faculty representatives and one from its student representatives to constitute a committee chaired by the President. This committee receives and considers nominations including those received from the faculty. In addition, the President and the Board of Trustees receive nominations from appropriate sources, both within and without the University. When this procedure is completed, the President consults with the elected faculty members of the Academic Council regarding all serious candidates. Later, the President reports the complete results of this consultation to the Board of Trustees, along with a personal recommendation."

A time of change, especially with regard to such an important and influential position in the life of an institution, can breed a certain amount of anxiety and even idle speculation.

I consider it one of the strengths of Notre Dame that we always have been able to find the right person, and combination of persons, for the major leadership responsibilities at each stage in our history. I am confident that the same will be true in our search for a new provost.

It is my intention to ask the Academic Council in its first meeting of the second semester in January of 1995 to elect a Provost Search Committee according to the procedures indicated in Article II of the Academic Articles. That would give the committee approximately 18 months to complete its task. I will personally chair the committee. If possible, I hope that we can present a provost recommendation to the Trustees long before the deadline, but we will take whatever time is required.

I do not personally know who the next provost might be. I do not start the process with a personal favorite candidate. I am open, as I am sure the committee will be, to that person who would provide the very best academic leadership for Notre Dame at this stage of its institutional life and as we move toward the year 2000. On the basis of what I hear from other universities, it will be a difficult search process. The job is demanding and there is not a surfeit of interested and well-qualified candidates.

It may be easier to articulate what would disqualify someone from consideration than it is to put together the ideal portfolio. But here are a few qualities which can serve as a starting point. The new provost must have strong academic credentials as a teacher-scholar, must have significant administrative experience, and must personify and be sympathetic with Notre Dame as a Catholic university. Bearing these qualities in mind, I do not rule out in advance any category of candidate. We will attempt to bring to light all possible internal candidates as well as those from outside. I will take seriously the expectation that we look at female prospects as well as male, faculty from every type of disciplinary background, and even those who might be slightly unconventional.

All of you individually and representatively will have an opportunity to contribute to the process and to assist the committee and me in our work. In the end it is my fervent hope that the committee and I will reach an operative consensus on the best person for the job. My recommendation to the Board of Trustees for our next provost will be someone in whom I have confidence and with whom I look forward to sharing the responsibility for Notre Dame's next period of academic greatness. Once the new provost is chosen, that person will have responsibility for assembling a team of assistants to share the burdens of the Provost's Office. In order to make such administrative service more attractive, I asked the Trustees at their meeting last May to create a second vice president and associate provost position. These two vice presidents, along with other associate or assistant provosts, will perform such duties and exercise such authority as may be delegated by the provost. Their only authority within the office is derived from the provost and their personal formal responsibilities will most likely depend on the range of abilities and interests within the provost's group. I believe that the provost should have a relatively free hand in putting together his or her own team. The vice presidents and the other members of the provost's office are distinguishable from the vice president for graduate studies and research, who reports to the provost but who oversees a semiautonomous area of academic responsibility.

In my mind there are two advantages to this second vice presidential position within the Provost's Office. First, it provides sufficient prestige and visibility to attract academics of experience and distinction to assist the provost. Secondly, it can increase the academic presence and strength within the officers' group, where final decisions are made about matters that affect the academic future of the University. I am pleased that Father Tim Scully, C.S.C., will have two years of experience as vice president and associate provost so that he can assist the new provost in a time of transition.

(5) *The new campaign* — At the first meeting of the Academic Council this year, Bill Sexton, vice president for University Relations, made a detailed presentation of the plans and goals for the new fund-raising campaign. We are already hard at work in the early stages of preparation and solicitation. Two fly-in weekends have been held and over 40 more are planned. Our network of potential benefactors has been expanded way beyond previous efforts. The printed materials, the video presentations, and the support infrastructure have been developed and are now being refined.

Although the new campaign will not be formally announced until 1997, everyone in Bill Sexton's operation is already hard at work. The final numerical target will be \$767 million, a sum which will exceed all of our previous campaigns combined. The determination of the final figure was driven by the dollar amounts attached to the various goals laid out in the Final Report of the Colloquy and given in greater detail by the Provost Advisory Committee and the Officers of the University. Proportionally, the dollar amounts will be concentrated heavily on people and programs over buildings and things in roughly a four-to-one proportion.

The Officers of the University and I, as well as the Trustees, see the new campaign as a major responsibility over the next seven years. Without the resources we cannot realize our dreams. We will be asking many of you to assist in this campaign by hosting potential benefactors, by articulating clearly and convincingly the nature and importance of your academic work and by clarifying for our development staff the most cogent way to solicit support for your particular projects. I thank you in advance for your willingness to assist.

III. CONCLUSION

I end these remarks by expressing my appreciation to all of you for the fine spirit of our common life. In most, if not all, of our academic units a genuine climate of colleagueship prevails from year to year. Those of you who serve as chairs of departments, deans of schools or colleges, directors of centers or institutes, all carry heavy administrative burdens in addition to your faculty responsibilities. For this sacrifice and commitment to the broader University, I am especially grateful. The same applies to those of you who serve on the numerous committees and representative bodies that both enliven and sometimes slow down the speed of decision-making in the modern university. You, too, have helped carry the load.

In my judgment we have been especially blessed as a university in our recent history. Our books are in order. Our sense of purpose is clear. Our level of support from graduates and friends remains among the strongest in the nation. Our faculty has grown in size and in academic stature. Our physical plant is attractive and well-maintained. Our students are bright, hard-working and generous.

What we need to do over this coming year and beyond is to sustain the momentum and to enlarge our sense of what we are called to become. I remain confident that our mission is grace-filled and providential. Thank you for your attention and your support.

Rev. Edward A. Malloy, C.S.C. President

Board of Trustees Executive Summary May 5-6, 1994

Diana Lewis, West Palm Beach, Fla., and Terrence J. McGlinn, Wyomissing, Pa., were recommended to the Fellows of the University for trusteeship and were elected. The following current trustees were elected by the fellows to additional terms on the board: John Burgee, Robert Conway, J.M. Haggar Jr., Philip Hawley, Donald Keough, Jane Pfeiffer, Robert Siegfried, Robert Welsh and Judge Ann Williams. It was announced that Elizabeth Kennan is retiring from the presidency of Mount Holyoke College and is also stepping down from the board. Rev. Timothy Scully, C.S.C., was elected a vice president and associate provost of the University.

The president of the University reported to the board on a variety of matters, including work of post-Colloquy committees; the status of the study on implementation of *Ex Corde Ecclesiae*, the papal statement on Catholic institutions of higher learning; and the North Central accreditation visit.

Rev. E. William Beauchamp, C.S.C., executive vice president, presented on behalf of an ad hoc facilities and site planning committee a framework plan that looked at existing campus conditions in identifying sites of future construction. Following discussion, a motion to site the previously approved two new residence halls on what is now the Notre Dame golf course was approved.

Robert Wilmouth reported for the Finance and Investment Committee that the market value of the University's pooled endowment fund had reached \$924.1 million at the end of the March quarter, a return for the fiscal year to date of 9.5 percent.

The board discussed a preliminary draft of a report of its Athletic Affairs Committee.

Father Beauchamp discussed the issue of expansion of Notre Dame Stadium, and after discussion the board approved expansion by about 20,000 seats, a continuance of the bowl structure as preferred design, and the issuance of tax-exempt bonds as the primary source of funding.

Provost Timothy O'Meara introduced a panel of endowed professors — Rabbi Michael Signer, Thomas Mueller, Thomas Frecka, Xavier Creary, Robert Blakey and Veronica Blasquez — who discussed their teaching and research at the University.

Vice President for Student Affairs Patricia O'Hara introduced a panel of students who discussed two Campus Ministry peer-ministry programs successful in dealing with the challenge of adult Christian living — Notre Dame Encounter Retreats and Communities ND.

University Committee on Libraries April 26, 1994

The meeting was called to order at 10 a.m. in the office of the director of libraries by the chairman, W. Robert Scheidt. Also in attendance were Thomas Fehlner, Paula Higgins, James Kohn, Robert Miller, Marsha Stevenson and secretary Melodie Eiteljorge.

The minutes of the meeting of March 22 were approved with an addition.

Robert Miller reported that the Ad Hoc Committee on University Libraries has almost completed its work. A report will go to the Academic Council on May 16 calling for increases in the annual budget. There might also be an expansion and revision in the structure of the University Committee on Libraries (UCL). Miller suggested that UCL begin planning at least one forum with faculty for early fall.

Miller reported that it has been suggested that some reference-type materials be housed in the stacks on a non-circulating basis. Robert Scheidt asked if other libraries have done this and, if so, what problems they have experienced. Marsha Stevenson replied that the problems are minimal and fairly routine. She noted that there are currently 40,000 volumes in Reference, twice the ideal maximum. Paula Higgins observed that art and music have been arguing in favor of this change for some time, based on the convenience of having some reference works housed with other material. One example is the New Grove Dictionary. The libraries will pursue the practical issues of making this change and will solicit recommendations from faculty.

The main agenda item was the final report of the Library Space Planning Task Force. Marsha Stevenson, who chaired the task force, gave an overview of the report, which she distributed. The primary recommendation is to hire a consultant in the near future. Another major recommendation is to install compact shelving in the basement of the Hesburgh Library building, which opened 30 years ago and is now at capacity. The task force does not feel that renting off-site storage or removing reader space would be appropriate. The current seating capacity is 29 percent, which is about average. According to national standards, there is a deficit in staff space. The recommended goal is to increase both collection and staff space while maintaining reader space. Fifty thousand square feet, or one-sixth of the usable part of the building, is occupied by non-library units. The task force recommends that recovering this space be a priority. Stevenson noted that removing the auditorium and/ or lounge were not options for the committee or its report. Miller added that other issues could not be addressed, i.e., delivery of video outside the classroom and the impact of the new music library.

Miller stated that he hopes to have a space consultant hired within the next year. Beyond that, a priority is to regain the space occupied by non-library units. Thomas Fehlner observed that the best scenario would be to move out all non-library units at once so that a complete renovation could be done. Stevenson replied that, while she agrees this would be best, some of the work could be done in phases. Miller added that the long-range costs for compact shelving in the basement would be far less if it were purchased and installed all at one time. Higgins suggested that allowing a consultant carte blanche, with no restrictions for one version, might be useful. Miller invited the committee to peruse the report and to contact Stevenson with any comments or suggestions. Two copies of the report are available in the Reserve Book Room of the Hesburgh Library for anyone interested in reviewing it.

The date of the next meeting was not set. There being no further business, the meeting adjourned at 11:10 a.m.

Respectfully submitted,

Melodie Eiteljorge Secretary



University Committee on Libraries September 22, 1994

The meeting was called to order at 3 p.m. in the office of the director of libraries by the chairman, W. Robert Scheidt. Also in attendance were Thomas Fehlner, John Halloran, Paula Higgins, James Kohn, Robert Miller, Donald Sniegowski, Marsha Stevenson and secretary Melodie Eiteljorge.

The minutes of the meeting of April 26 were approved as written.

The next order of business was the election of a chair for 1994–95. Scheidt announced that he preferred not to serve a third term as chair. He therefore called for a written ballot. Thomas Fehlner was subsequently elected.

The next agenda item was a meeting schedule for the semester. The following dates were set:

October 6, 3:30 p.m. November 10, 3:30 p.m. December 15, 4 p.m. All meetings will be held in the office of the director of libraries.

Miller reported that last week the provost initiated the process for the five-year review of the director of libraries. The library faculty is in the process of electing three representatives, and the University Committee on Libraries must elect two members from the teaching and research faculty.

Fehlner asked if anyone on the committee would be willing to serve. Sniegowski noted that all should be willing. Higgins added that she is on leave this semester but would otherwise be happy to serve. She would, however, like to have a member of the College of Arts and Letters on the committee.

After some discussion, it was agreed that members of the committee over the past five years should be given the opportunity to stand for election. Fehlner will send a letter to those members, asking that they contact the secretary by October 5 if they are not willing to stand for election. At the October 6 meeting there will be two ballots, one for arts and letters and one for the other colleges.

Miller next reported that the report on the Ad Hoc Committee on Libraries has been published in *Notre Dame Report*. One of the recommendations is that UCL be restructured and expanded to include students, a representative from law, etc. This will require approval of the Executive Committee of the Academic Council and the Board of Trustees. He asked if, in the meantime, it might be useful to invite members of these groups to sit in on meetings as observers. Fehlner replied that his interpretation of the recommendation was that the purpose of the restructuring is to change the purview, not simply the membership. It was therefore agreed that inviting representatives from other groups at this time would be premature.

Miller next reported on developments in the libraries. New endowments have been received for the humanities and for East European literature and culture. In late summer word was received that a second phase grant for preservation microfilming had been received from NEH for a two-year project. Subsequently, another grant was received from the Culpeper Foundation for the construction of a preservation laboratory facility in the Reyniers laboratory.

INFOSHARE is now operational and includes a number of databases. There are plans to add General Science Abstracts as soon as more memory is available. Books in Print is another possible addition, and the bookstore has indicated that it would partially underwrite it.

Plans are under way for the Business Information Center in the new business facility, which should be opened by the fall semester. A proposal has been submitted for some additional funding. Steve Hayes has been named the new business services librarian.

The libraries have acquired the library of A.A. Luce, editor of the standard biography of George Berkeley. Marsha Stevenson reported that the libraries have also received Dissertation Abstracts, 1861–1981, on compact disk.

Halloran inquired about how people across campus are notified of the acquisition of electronic products. Miller replied that the *Access* newsletter reports major acquisitions, which are also listed in the catalog. Fehlner asked if there is a news component of UNLOC. Miller replied that there is, but that it has not been kept current. Scheidt suggested that a listserve on e-mail might be useful. Miller will explore that possibility. Sniegowski added that a listing in *Access*, in addition to specific articles, might be helpful.

Miller next reported that the libraries are exploring the possibility of acquiring a new automated system to replace UNLOC. P.S.S. Tapestry, which is being offered with some external support, is a BLIS based system founded on ADABAS and NATURAL.

Scheidt asked why a consortium such as OCLC has not developed an automated system. Miller replied that there are a number of financial restraints. Fehlner asked about the lifetime of a given system. Miller replied that he would estimate seven to 10 years. Higgins asked if any other institution has tried Tapestry and if there would be a risk involved. Miller replied that Tapestry is not fully implemented anywhere and that there would be some risk. He emphasized that there has been no commitment and that the libraries are only testing the system. There will be a UNIX box on campus with software loaded for testing. There will also be dial-in access to a larger machine.

Higgins asked why the libraries are considering a change from NOTIS. Stevenson replied that there have been problems with NOTIS, which is now the academic division of Ameritech. Higgins asked if peer institutions are migrating from NOTIS. Miller replied that several are in the process. The INNOVATIVE system is a popular alternative, but it is expensive. Higgins asked if we are looking at anything other than Tapestry. Miller replied that we are not at this time.

Miller also announced that the position of Assistant Director for Systems and Administrative Services has been reconfigured into two assistant director positions, one for Administrative Services, Planning and Budget and the

other for Library Systems. Robert Wittorf will continue as assistant director for Administrative Services, Planning and Budget; James Wruck, formerly director of Systems and Operations in the Office of University Computing, has joined the libraries as assistant director for Library Systems.

There being no further business, the meeting adjourned at 4:10 p.m. Agenda items for the next meeting are: the election of two teaching and research faculty members to the review committee; a discussion of collection development; and how to provide linkage for the libraries and the University Committee on Libraries in the work of the Collection Development Committee.

Respectfully submitted,

Melodie Eiteljorge Secretary

Faculty Board in Control of Athletics September 12, 1994

In attendance: Rev. E. William Beauchamp, C.S.C., chair; Professor Joseph Bauer; Professor JoAnn DellaNeva; Professor Alexander Hahn; Dr. Kathleen Halischak, recorder; Professor George Howard; Professor David Kirkner; Ms. Sheryl Klemme; Professor William Nichols; Professor Patricia O'Hara; Mr. Richard Rosenthal Absent: Professor George Craig

The meeting was called to order at 4:39 p.m.

1. Father Beauchamp introduced the new members of the board: Professor Alex Hahn from the Department of Mathematics replaces Dr. Roland Smith as an appointed member, and Sheryl Klemme, a second-year law student, replaces Mary Quinn as an appointed member from the student body.

2. The minutes of the August 1, 1994, meeting were accepted.

3. Father Beauchamp presented for board consideration the following actions which he took during the summer as authorized by the board at its May 5, 1994, meeting: approval of monograms for softball, men's and women's track, men's tennis, baseball, and for Meredith Siegfried in women's tennis; approval of Liz Goetz and Andrea Keys as captains for softball; approval of a fifth year of eligibility for William Sutton in lacrosse and for Chris Hajnik in men's fencing. The board unanimously approved adding the above actions as an official part of the board minutes.

4. Father Beauchamp presented for board consideration a request for a fifth year of eligibility for Sean Ryan in men's basketball. After a brief discussion, the board unanimously recommended approval of the petition.

5. Father Beauchamp presented for board consideration recommendations for Mike Keeley and Andy Kiley as captains of the men's swimming team. The board recommended approval.

6. Mr. Rosenthal updated the board regarding the Big East Conference and the scheduling of men's basketball.

7. Father Beauchamp asked the board to list issues for future consideration. He pointed out that the report to the Academic Council from the board regarding the Colloquy recommendations should be a priority and asked Dr. Halischak to have a draft prepared for the next meeting. Professor Nichols offered the topics suggested at the August 1, 1994, meeting as appropriate for board discussion and action. Professor Kirkner asked that the minutes appear in a more timely fashion.

8. Father Beauchamp presented for board consideration recommendations for the playing schedules of men's and women's cross country, men's golf, softball, men's and women's swimming, and men's tennis. The board recommended approval of the schedules. These lists are attached to these minutes and hereby incorporated by reference as an official part of the board minutes.

The meeting was adjourned at 6:07 p.m.



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

American Studies

Schmuhl, Robert P.

- R.P. Schmuhl. 1994. In Richard Nixon's Last Book, A Look Forward: Review of Beyond Peace, by R. Nixon. *Philadelphia Inquirer* 26 June, sec. F, p. 3.
- R.P. Schmuhl. 1994. Independents Put Politics in Free Fall. *Chicago Tribune* 19 July, sec. 1, p. 13.
- R.P. Schmuhl. 1994. Max Lerner on Law and Justice in America. Pages 315-320 *in*, R. Cummings, ed., Nine Scorpions in a Bottle: Great Judges and Cases of the Supreme Court, by Max Lerner. Arcade Publishing, New York, New York.
- R.P. Schmuhl. 1994. An Overabundance of Communication. *Notre Dame Magazine* 23(2):48-49
- R.P. Schmuhl. 1994. "Politics as Paranoia" Review of Watergate: The Corruption of American Politics and the Fall of Richard Nixon, by F. Emery. *Chicago Tribune Books* 7 August, sec. 14, p. 3.

Anthropology

Gaffney, Patrick D., C.S.C., Rev.

Rev. P.D. Gaffney, C.S.C. 1994. Africa: Why Christians are Turning Toward Islam. Pages 11-17 in, H. Küng and J. Moltmann, eds., Concilium. SMC Press, London, England.

Murphy, Martin F.

M.F. Murphy. 1994. Review of Between Two Islands: Dominican International Migration, by S. Grasmuck and P. Pessar. *Nieuwe West-Indische Gids* 68(1&2):166-168.

Classical and Oriental Languages and Literatures

Cheang, Alice W-C.

A.W-C. Cheang. 1993. Poetry, Politics, Philosophy: Su Shih (1037-1101) as the Man of the Eastern Slope. *Harvard Journal of Asiatic Studies* 53(2):325-387.

Communication and Theatre

Godmilow, Joan

J. Godmilow. 1994. Feature Film. Roy Cohn/Jack Smith. 16 mm., 90 mins. Producers: The Laboratory for Icon and Idiom, Inc., The Pomodori Foundation, and Good Machine, New York, New York.

Economics

Kim, Kwan S.

K.S. Kim. 1994. Economic Integration in the Asian Pacific Region: Issues and Prospects. Pages 32-53 *in*, H-S. Hwang, ed., Papers and Proceedings: The Ninth Annual Meeting of the Korea-America Economic Association. Korea-America Economic Association, Boston, Massachusetts.

English

Psomiades, Kathy A.

K.A. Psomiades. 1994. Review of Fiction of the Home Place: Jewett, Cather, Glasgow, Porter, Welty and Naylor, by H.F. Levy; Jane Austen Among Women, by D. Kaplan; To Kiss the Chastening Rod, by G.M. Goshgarian; and The Daughter's Dilemma, by P.M. Cohen. Signs: Journal of Women in Culture and Society 20(1):188-193.

Sayers, Valerie L.

V.L. Sayers. 1994. Review of Henry and Clara, by T. Mallon. New York Times Book Review 21 August, sec. 7, p.11.

Government and International Studies

Dowty, Alan K.

- A.K. Dowty. 1994. Building a Civic State: Israel's First Decade. Pages 31-50 *in*, S.I. Troen and N. Lucas, eds., Israel: The First Decade of Independence. State University of New York Press, Albany, New York.
- A.K. Dowty. 1994. Zwiespältige Erfahrungen mit Sanktionen-das Beispiel Irak. *Europa Archiv* 49(11):315-324.

Leege, David C.

D.C. Leege. 1994. The Catholic University: Living with ND (Necessary Dissonances). Pages 127-140 *in*, Rev. T.M. Hesburgh, C.S.C., ed., The Challenge and Promise of a Catholic University. University of Notre Dame Press, Notre Dame, Indiana.

Mainwaring, Scott P.

- S.P. Mainwaring and Rev. T.R. Scully, C.S.C. 1994. A Institucionalizacao dos Sistemas Partidarios na America Latina. *Dados* 37(1):43-79.
- S.P. Mainwaring. 1994. Religion and Politics in Ordinary Lives: Review of Popular Voices in Latin American Catholicism, by D.H. Levine. *Review of Politics* 56(2):391-394.

McAdams, A. James

A.J. McAdams. 1994. The New Diplomacy of the West German Ostpolitik. Pages 537-563 in, G.A. Craig and F. Loewenheim, eds., The Diplomats: 1939-1979. Princeton University Press, Princeton, New Jersey.

Scully, Timothy R., C.S.C., Rev.

See under Mainwaring, Scott P. 1994. Dados 37(1):43-79.

History

Biddick, Kathleen A.

- K.A. Biddick. 1994. Bede's Blush: Postcards from Bali, Bombay, Palo Alto. Pages 16-44 *in*, J.H. Van Engen, ed., Past and Future of Medieval Studies. University of Notre Dame Press, Notre Dame, Indiana.
- K.A. Biddick. 1994. Imperial Machines/Jubilee Machines: Empires of Memory in the Sciences and the Humanities. *Stanford Humanities Review* 4(1):34-38.
- K.A. Biddick. 1994. Review of Alienated Minority: Jews in Medieval Latin Europe, by K. Stow. *History of Education Quarterly* 34(3):362-364.

Nugent, Walter

W. Nugent. 1994. Review of Prairie Populism: The Fate of Agrarian Radicalism in Kansas, Nebraska and Iowa, 1880-1892, by J. Ostler. *Indiana Magazine of History* 90(September):304-305.

Van Engen, John H.

J. Van Engen, ed. 1994. Past and Future of Medieval Studies. University of Notre Dame Press, Notre Dame, Indiana. xi + 431 pp.

Psychology

Howard, George S.

- G.S. Howard. 1994. And Binding Nature Fast in Fate, Left Free the Human Will. *Journal of Theoretical and Philosophical Psychology* 14:73-76.
- E.A. Delgado and G.S. Howard. 1994. Changes in Research Productivity in Counseling Psychology: Revisiting Howard (1983) a Decade Later. *Journal of Counseling Psychology* 41:1-5.
- G.S. Howard. 1994. The Coming of Age of Narrative Psychology. Review of Stories We Live By: Personal Myths and the Making of the Self, by D. McAdams. *Contemporary Psychology* 39:356-357.
- G.S. Howard. 1994. Foreword to J. Martin's, The Construction and Understanding of Psychotherapeutic Change. Pages vii-ix. Teacher's College Press, New York, New York.
- G.S. Howard. 1994. In Praise of Scholarly Reactions: Thoughts on Tinsley's and Mahoney's Insights. *Counseling and Values* 38:103-106.
- G.S. Howard and P.E. Nathan. 1994. Introduction: The Problem of Alcohol Use and Misuse on College Campuses. Pages 1-12 *in*, G.S. Howard and P.E. Nathan, eds., Alcohol Use and Misuse by Young Adults. University of Notre Dame Press, Notre Dame, Indiana.
- G.S. Howard. 1994. The Poetics of Science: Creativity in the Construction of Causality. Pages 141-169 *in*, L. Hoshmond & J. Martin, eds., Method Choice and Inquiry Process: Lessons from Programmatic Research in the Therapeutic Practice. Teacher's College Press, New York, New York.

- G.S. Howard. 1994. Reflections on Change in Science and Religion. *International Journal of Psychology and Religion* 4:127-143.
- G.S. Howard. 1994. A Science of Meaning-Makers. Review of The Human Difference: Animals, Computers and the Necessity of Social Science, by A. Wolfe. *Contemporary Psychology* 39:721-723.
- G.S. Howard. 1994. Sex Must Be a Four-Letter Word. International Journal of Psychology and Religion 4:157-163.
- G.S. Howard. 1994. Some Varieties of Free Will Worth Practicing. *Journal of Theoretical and Philosophical Psychology* 14:50-61.
- G.S. Howard. 1994. The Tragedy of Maximization. Review of Living within Limits, by G. Hardin. *Contemporary Psychology* 39:582-583.
- G.S. Howard. 1994. Why do People Say Nasty Things about Self-Reports? *Journal of Organizational Behavior* 15:175-180.
- G.S. Howard. 1994. Why Would Someone Make Questionable Methodological Judgments? *The Counseling Psychologist* 22:165-170.

Theology

Blenkinsopp, Joseph

- J. Blenkinsopp. 1994. Introduction to the Pentateuch. Pages 305-318 *in*, L.E. Keck et al., eds., The New Interpreter's Bible, Vol. 7. Abingdon Press, Nashville, Tennessee.
- Coll, Regina A., C.S.J.
 - R.A. Coll, C.S.J. 1994. Do We Have to Worry about Calling God "Him"? Syndicated by the Catholic News Service (08/20/94).
- Cunningham, Lawrence S.
 - L.S. Cunningham. 1994. Pure Evil. Notre Dame Magazine 23(2):42-44.
 - L.S. Cunningham. 1994. Religious Booknotes: Reasons for Hope. *Commonweal* CXXI(09/23/94):27-29.
 - L.S. Cunningham. 1994. Review Essay: Spirituality and History. Bulletin of Monastic Spirituality of Cistercian Studies Quarterly 29(1):7-10.
 - L.S. Cunningham. 1994. Review of Saints and Sinners, by L. Wright. *Horizons* xxi(Spring):221-222.
 - L.S. Cunningham. 1994. Teaching Thomas Merton in Asia. *The Bridge of the East Asian Pastoral Institute* (Midyear):6-8.
 - L.S. Cunningham. 1994. Theology for the Church. *Church* 10(3):16-20.
- Yoder, John H.
- J.H. Yoder. 1994. Christianity and Protest. Faith and Freedom 3(2):8-11.

The Graduate School Office of Research

્ર

COLLEGE OF SCIENCE

Biological Sciences

Grimstad, Paul R.

P.R. Grimstad. 1994. California Group Viral Infections. Pages 71-79 *in*, G.W. Beran et al., eds., Handbook of ZOONOSES, Second Edition, Section B: Viral. CRC Press, Boca Raton, Florida.

Lodge, David M.

- D.M. Lodge, M.W. Kershner, J.E. Aloi and A.P. Covich. 1994. Effects of an Omnivorous Crayfish (Orconectes Rusticus) on a Freshwater Littoral Food Web. Ecology 75(5):1265-1281.
- E.J. Willman, A.M. Hill and D.M. Lodge. 1994. Response of Three Crayfish Congeners (Orconectes spp.) to Odors of Fish Carrion and Live Predatory Fish. American Midland Naturalist (132):44-51.

Pollard, Morris

M. Pollard and P.H. Luckert. 1994. Activation of Dormant Cancer Cells in the Prostates and Seminal Vesicles of Lobund-Wistar Rats. *Cancer Letters* 82:141-144.

Chemistry and Biochemistry

Fehlner, Thomas P.

See under Shang, Maoyu. 1994. Journal of the American Chemical Society 116:8408-8409.

Freeman, Jeremiah P.

S. Zhao, J.P. Freeman, P.F. Von Voightlander, W.J. Howe and J. Szmuszkovicz. 1994. Structure-Activity-Relationship Pertaining to the North-West Region of the Kappa Opioid Agonist, U-50,488. *Bioorganic & Medicinal Chemistry Letters* 4(17):2139-2144.

Miller, Marvin J.

A.R. Ritter and M.J. Miller. 1994. Amino Acid-Derived Chiral Acyl Nitroso Compounds: Diastereoselectivity in Intramolecular Hetero Diels-Alder Reactions. *Journal of Organic Chemistry* 59:4602-4611.

Scheidt, W. Robert

- M.K. Safo, F.A. Walker, A.M. Raitsimring, W.P. Walters, D.P. Dolata, P.G. Debrunner and W.R. Scheidt. 1994. Axial Ligand Orientation in Iron(III) Porphyrinates: Effect of Axial π -Acceptors. Characterization of the Low-Spin Complex [Fe(TPP)(4-CNPy)₂]ClO₄. Journal of the American Chemical Society 116:7760-7770.
- C.E. Schulz, H. Song, Y.J. Lee, J.U. Mondal, K. Mohanrao, C.A. Reed, F.A. Walker and W.R. Scheidt. 1994. Metalloporphyrin π -Cation Radicals. Molecular Structure and Spin Coupling in a Vanadyl Octaethylporphyrinate Derivative. An Unexpected Spin Coupling Path. *Journal of the American Chemical Society* 116:7196-7203.

Shang, Maoyu

K.J. Deck, Y. Nishihara, M. Shang and T.P. Fehlner. 1994. Preparation and Structure of (Cp*Cr)₂B₄H₈. An Unsaturated Metallaborane Cluster with an Unexpected Structure. *Journal of the American Chemical Society* 116:8408-8409.

Szmuszkovicz, Jacob

See under Freeman, Jeremiah P. 1994. Bioorganic & Medicinal Chemistry Letters 4(17):2139-2144.

Thomas, J. Kerry

- X. Liu, K-K. Iu and J.K. Thomas. 1994. Photophysical Properties of Pyrene in Zeolites: A Direct Time-Resolved Diffuse Reflectance Study of Pyrene Anion Radicals in Zeolites X and Y. *Journal of Physical Chemistry* 98:7877-7884.
- Y. Mao and J.K. Thomas. 1994. Reactions of Electrons Generated in Photolysis of Pyrene on Silica Gel Surface. *Chemical Physics Letters* 226(08/12/94):127-131.

Mathematics

Faybusovich, Leonid

- L. Faybusovich. 1994. On the Linearization of the LRalgorithm. Pages 673-676 *in*, U. Helmke, R. Mennicken and J. Saurer, eds., Systems and Networks: Mathematical Theory and Applications, Vol. II. Akademie Verlag, Berlin, Germany.
- L. Faybusovich. 1994. Quadratic Semi-definite Programming: Theory and Applications. Pages 159-166 *in*, L. Kulhava, M. Karny and K. Warwick, eds., Proceedings of the Workshop: Computer-Intensive Methods in Control and Signal Processing. Institute of Information Theory and Automation, Academy of Sciences, Prague, Czech Republic.
- Hu, Bei
 - B. Hu. 1994. A Free Boundary Problem Arising in Smoulder Combustion. *Journal of Partial Differential Equations* 7(3):193-214.

COLLEGE OF ENGINEERING

Aerospace and Mechanical Engineering

Batill, Stephen M.

R.S. Sellar, S.M. Batill and J.E. Renaud. 1994. Optimization of Mixed Discrete/Continuous Design Variable Systems Using Neural Networks. Pages 910-921 *in*, Proceedings of the AIAA/NASA/USAF/ISSMO 5th Symposium on Multidisciplinary Analysis and Optimization, Paper No. 94-4348. American Institute of Aeronautics and Astronautics, Washington, D.C. Gad-el-Hak, Mohamed

M. Gad-el-Hak. 1994. Interactive Control of Turbulent Boundary Layers: A Futuristic Overview. AIAA Journal 32(9):1753-1765.

The Graduate School Office of Research



Nee, Victor W.

Q.D. Liao, V.W. Nee and K-T. Yang. 1994. Experimental Study of Enhanced Heat Transfer from a Microprocessor Chip to a Ducted Oscillatory Air Flow with Zero Mean. Pages 235-237 *in*, N.W.M. Ko, H.E. Fiedler and B.H.K. Lee, eds., Proceedings of the First International Conference on Flow Interaction. Hong Kong University Press, Hong Kong, Republic of China.

- B. Wujek and J.E. Renaud. 1994. Design Driven Concurrent Optimization in System Design Problems Using Second Order Sensitivities. Presented at the AIAA/NASA/USAF/ISSMO 5th Symposium on Multidisciplinary Analysis and Optimization, Paper No. 94-4276. American Institute of Aeronautics and Astronautics, Washington, D.C.
- See under Batill, Stephen M. 1994. Pages 910-921 in, Proceedings of the AIAA/NASA/USAF/ISSMO 5th Symposium on Multidisciplinary Analysis and Optimization, Paper No. 94-4348.

Sen, Mihir

- T.G. Zaki, M. Sen and M. Gad-el-Hak. 1994. Numerical and Experimental Investigation of Flow Past a Freely Rotatable Square Cylinder. *Journal of Fluids and Structures* 8(6):555-582.
- Yang, Kwang-tzu
- K-T. Yang, Q. Xia and V. Nicolette. 1994. Simulation of Strong Turbulent Buoyant Flow in a Vented Complex Enclosure. *Computational Mechanics* 14(5):468-479.
- See under Nee, Victor W. 1994. Pages 235-237 *in*, Proceedings of the First International Conference on Flow Interaction.

Civil Engineering and Geological Sciences

Gray, Kimberly A.

L. Weitzman, K. Gray, F. Kawahara, R. Peters and J. Verbicky. 1994. Innovative Site Remediation Technology: Chemical Treatment. American Academy of Environmental Engineers, Annapolis, Maryland. 200 pp.

Kareem, Ahsan

X. Song and A. Kareem. 1994. Combined System Analysis of Tension Leg Platforms: A Parallel Computation Scheme. Pages 123-134 *in*, OMAE 94, Proceedings of the 13th International Conference on Offshore Mechanics and Arctic Engineering, Vol. 1, Offshore Technology. American Society of Mechanical Engineers, New York, New York. A. Kareem and J. Zhao. 1994. Stochastic Response of Tension Leg Platform: Statistical Quadratization and Cubicization Approaches. Pages 281-292 in, OMAE 94, Proceedings of the 13th International Conference on Offshore Mechanics and Arctic Engineering, Vol. 1, Offshore Technology. American Society of Mechanical Engineers, New York, New York.

Makris, Nicos

N. Makris, G.F. Dargush and M.C. Constantinou. 1994. Dynamic Analysis of Generalized Viscoelastic Systems with the Boundary Element Method. Pages 283-290 *in*, M. Papadrakakis and B.V. Topping, eds., Advances in Computational Mechanics. Civil-Comp Press, Edinburgh, United Kingdom.

N. Makris, D. Badoni, E. Delis and G. Gazetos. 1994. Prediction of Observed Bridge Response with Soil-Pile-Structure Interaction. *Journal of Structural Engineering, ASCE* 120(10):2992-3011.

Spencer, Billie F., Jr.

B.F. Spencer, Jr., M.K. Sain, C-H. Won, D.C. Kaspari and P.M. Sain. 1994. Reliability-Based Measures of Structural Control Robustness. *Structural Safety* 15:111-129.

Westerink, Joannes J.

C.A. Blain, J.J. Westerink and R.A. Luettich. 1994. The Influence of Domain Size on the Response Characteristics of a Hurricane Storm Surge Model. *Journal of Geophysical Research* 99(C9):18467-18479.



Chen, Ziyi D.

Z.D. Chen and X. Hu. 1994. Fast and Efficient Operations on Parallel Priority Queues. Pages 279-287 in, D-Z. Du and X-S. Zhang, eds., Proceedings of the Fifth International Symposium on Algorithms and Computation, Lecture Notes in Computer Science No. 834. Springer-Verlag, New York, New York.

Electrical Engineering

Sain, Michael K.

See under Civil Engineering and Geological Sciences; Spencer, Billie F., Jr. 1994. *Structural Safety* 15:111-129.

COLLEGE OF BUSINESS ADMINISTRATION

Marketing Management

Urbany, Joel E.

M.C. Moore and J.E. Urbany. 1994. Blinders, Fuzzy Lenses and the Wrong Shoes: Pitfalls in Competitive Conjecture. *Marketing Letters* 5(3):247-258.

Renaud, John E.

The Graduate School Office of Research

- J.E. Urbany and P.R. Dickson. 1994. Evidence on the Risk-Taking of Price-Setters. *Journal of Economic Psychology* 15(1):127-148.
- J.W. Alba, S.M. Broniarczyk, T.A. Shimp and J.E. Urbany. 1994. The Influence of Prior Beliefs, Frequency Cues and Magnitude Cues on Consumers' Perceptions of Comparative Price Data. *Journal of Consumer Research* 21(2):219-235.
- P.R. Dickson and J.E. Urbany. 1994. Retailer Reactions to Competitive Price Changes. *Journal of Retailing* 70(1):1-21.

LAW SCHOOL

Fick, Barbara J.

B.J. Fick. 1994. Law and the Workplace. Pages 394-466 *in*, American Bar Association, ed., Family Legal Guide. Times Books, New York, New York.

INSTITUTE FOR CHURCH LIFE

Philibert, Paul J., O.P.

P.J. Philibert, O.P., ed. 1994. Living in the Meantime: Concerning the Transformation of Religious Life. Paulist Press, Mahwah, New Jersey. x + 222 pp.



LOBUND LABORATORY

Luckert, Phyllis H.

See under College of Science; Biological Sciences; Pollard, Morris. *Cancer Letters* 82:141-144.

RADIATION LABORATORY

Chipman, Daniel M.

V.A. Rassolov and D.M. Chipman. 1994. Lithium Atom Spin Density from the Hiller-Sucher-Feinberg Identity. *Theoretica Chimica Acta* 88:339-349.

Ferraudi, Guillermo J.

N.M. Iha and G.J. Ferraudi. 1994. Photochemical and Photophysical Properties of *fac*-[Re(CO)₃(L)₂Cl] (L=quinoline or isoquinoline). *Journal of Chemical Society Dalton Trans.* (1):2565-2571.

Fessenden, Richard W.

I. Bedja, S. Hotchandani, R. Carpentier, R.W. Fessenden and P.V. Kamat. 1994. Chlorophyll *b*-Modified Nanocrystalline SnO₂ Semiconductor Thin Film as a Photosensitive Electrode. *Journal of Applied Physics* 75:5444-5446.

George, Manapurathu V.

See under Kamat, Prashant V. Pages 513-525 in, Proceedings of the Indian Academy of Sciences— Chemical Sciences. Kamat, Prashant V.

- P.V. Kamat, I. Bedja and S. Hotchandani. 1994. Photoinduced Charge Transfer Between Fullerenes and TIO₂ Semiconductor Colloids. Pages 964-975 *in*, K.M. Kadish and R.S. Ruoff, eds., Recent Advances in the Chemistry and Physics of Fullerenes and Related Materials. The Electrochemical Society, Inc., Pennington, New Jersey.
- K.R. Gopidas and P.V. Kamat. 1993. Photoinduced Charge Transfer Processes in Ultrasmall Semiconductor Clusters. Photophysical Properties of CdS Clusters in Nafion Membrane. Pages 505-512 *in*, Proceedings of the Indian Academy of Sciences— Chemical Sciences. The Indian Academy of Sciences, Bangalore, India.
- S. Das, K.G. Thomas, P.V. Kamat and M.V. George. 1993. Photosensitizing Properties of Squaraine Dyes. Pages 513-525 *in*, Proceedings of the Indian Academy of Sciences—Chemical Sciences. The Indian Academy of Sciences, Bangalore, India.

See under Fessenden, Richard W. 1994. Journal of Applied Physics 75:5444-5446.

LaVerne, Jay A.

See under Wojnarovits, Laszlo. 1994. Journal of Physical Chemistry 98:8014-8018.

Wojnarovits, Laszlo

L. Wojnarovits and J.A. LaVerne. 1994. Radiolysis of Cyclooctane with γ-Rays and Helium Ions. *Journal of Physical Chemistry* 98:8014-8018.

UNIVERSITY LIBRARIES

Tarragó, Rafael E.

R.E. Tarragó. 1994. Reporte de los resultados de un cuestionario sobre colecciones cubanas en instituciones miembros del SALALM. SALALM Newsletter 22(1):25-28.



NOTRE DAME REPORT

Volume 24, Number 5

November 4, 1994

Notre Dame Report (USPS 7070-8000) is an official publication published fortnightly during the school year, monthly in the summer, by the University of Notre Dame, Office of the Provost. Second-class 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 Julie E. Rogers, Publication Assistant Gerard Jacobitz, Indexer Publications and Graphic Services 415 Main Building Notre Dame, IN 46556 (219) 631-5337

© 1994 by the University of Notre Dame, Notre Dame, IN 46556. All rights reserved.