

THE UNIVERSITY

- 449 Lewis and McGlinn Elected to Board of Trustees
- 449 Mensch Fellowships Established 449 Alumni Support Ranks 12th

FACULTY NOTES

- 450 Faculty Honors450 Faculty Activities

Administrators' Notes

455 Administrators' Activities

THE GRADUATE SCHOOL

- 456 Current Publications and Other Scholarly Works 460 Awards Received and Proposals Submitted
- 461 Awards Received
- 463 Proposals Submitted

JULY 8, 1994 • NUMBER 19

Lewis and McGlinn Elected to Board of Trustees

Notre Dame alumni Diana Lewis and Terrence J. McGlinn have been elected to the Board of Trustees.

Lewis, a partner in the West Palm Beach, Fla., law firm of Gay, Ramsey & Lewis, P.A., was graduated from Notre Dame in 1974 with a bachelor's degree in sociology. After receiving a master's in education degree from Florida Atlantic University in 1976, she returned to Notre Dame and earned her law degree in 1982.

A member of the Guild of Catholic Lawyers, Lewis also is active in professional societies including the American Academy of Hospital Attorneys and the National Health Lawyers Association. She has been a member of the Law School Advisory Council for five years.

McGlinn is the founder, president and principal stockholder of McGlinn Capital Management, Inc., based in Reading, Pa., with total assets of more than \$2.8 billion under discretionary management. He also is co-owner of Lily's of Beverly Hills, a California-based sportswear design and manufacturing company.

McGlinn was graduated from Notre Dame in 1962 with a bachelor's of business administration in accounting and earned his MBA in 1964 from the University of Pennsylvania's Wharton School of Business. With his wife, Barbara, he is among the five principal benefactors underwriting the new \$23-million College of Business Administration complex which is scheduled for completion for the fall 1995 semester.

An 11-year member of the College of Business Administration Advisory Council, McGlinn also serves on the University's President's Development Committee. He is a director of Narrow Fabric Corporation, a Reading-based textile manufacturing firm; a member of the board and executive committee of the Reading Hospital and Medical Center; and chairman of Colonial Oaks Foundation, a Reading-based charitable organization. He has been active in fund raising for numerous charitable and religious organizations including Alvernia College, the Boy Scouts, St. Ignatius Loyola Church, the March of Dimes and the United Way.

Mensch Fellowships Established

Notre Dame has received a \$240,000 commitment from William D. Mensch Jr., chairman and chief executive officer of the Western Design Center, Inc., of Mesa, Ariz., to establish graduate fellowships and summer stipends for students in computer science and engineering and electrical engineering.

The commitment provides for an annual series of 12 \$14,000 gifts to establish the William D. Mensch Jr. Fellowships for graduate students in the departments of computer science and engineering and electrical engineering. It also provides for an annual series of 12 \$6,000 gifts to establish the William D. Mensch Jr. Summer Stipends. The stipends will support the summer design projects of graduate or undergraduate students in the same departments.

Mensch, a native of Ottsville, Pa., worked on computer development for various corporations nationwide before founding his own firm, the Eastern Design Center, Inc., in 1978 in his home in Mesa. He is the inventor of several revolutionary microprocessors, including one used in the Apple II personal computer.

Alumni Support Ranks 12th

Notre Dame ranks in the top 20 among American colleges and universities in alumni giving, according to the recently released survey "Voluntary Support of Education, 1963."

Conducted by the New York-based Council for Aid to Education, the survey reports on all contributions made to 1,106 institutions of higher learning.

Notre Dame alumni donated \$30.1 million to their alma mater in 1992–93, a total that ranks 12th overall and first among Catholic universities.

Cornell University ranks first with \$94.7 million in alumni contributions, followed by: Yale, Harvard and Stanford Universities, the University of Pennsylvania, Columbia University, the University of California at Berkeley, Princeton University, Dartmouth College, University of Michigan and Massachusetts Institute of Technology.

The report was co-sponsored by the Council for Advancement and Support of Education and the National Association of Independent Schools.

Honors

Rev. Edward A. Malloy, C.S.C., president and professor of theology, has been named to the AmeriCorps and National Civilian Community Corps (NCCC) Advisory Board. The board will provide programming advice and guidance for the NCCC, which is designed to offer 18 to 24 year olds the opportunity to participate in urban and rural service projects. In exchange for an 11-month commitment to such projects, volunteers will receive living allowances and \$4,725 to be applied to their educations. Malloy has been appointed by Governor Evan Bayh to the Indiana Commission on Community Service, which will oversee the state's implementation of the national service initiative. Under the national legislation, some two-thirds of the funds available for service programs will be awarded by the state commissions.

Scott P. Mainwaring, professor of government and international studies, has been appointed to the Premio Iberoamericano Book Award Committee of the Latin American Studies Association for 1994–95. The Premio Iberoamericano Committee presents an award for the best book published in Spanish or Portuguese on a Latin American subject.

Roger C. Mayer, assistant professor of management, has been named a recipient of a 1994 Amoco Teaching Award for outstanding undergraduate teaching sponsored by the Amoco Foundation.

Joseph M. Powers, assistant professor of aerospace and mechanical engineering, was selected to serve a threeyear term as a member of the American Institute of Aeronautics and Astronautics' Committee on Propellants and Combustion. He has been named a recipient of a 1994 Amoco Teaching Award for outstanding undergraduate teaching sponsored by the Amoco Foundation.

John E. Renaud, Clark assistant professor of aerospace and mechanical engineering, was elected treasurer of the St. Joseph Valley chapter of the American Society of Mechanical Engineers for the 1994–95 term.

Arvind Varma, Schmitt professor of chemical engineering, has been appointed to the awards committee of the American Institute of Chemical Engineers for a five-year term, 1994–99.

Raimo Väyrynen, professor of government and international studies and Regan director of the Kroc Institute, has been appointed by the Danish Ministry of Research and Technology as a board member of the Center for Peace and Conflict Research in Copenhagen for the period 1994–97. In its first meeting in May the board elected him as its chairperson for 1994–95. James L. Wittenbach, assistant chairperson and professor of accountancy, has been named a recipient of a 1994 Amoco Teaching Award for outstanding undergraduate teaching sponsored by the Amoco Foundation.

Activities

Joseph P. Amar, assistant professor of classical and Oriental languages and literatures, presented the paper "Reconstructing the 'Golden Age' of Syriac Literature" at the annual meeting of the North American Patristic Society at Loyola University in Chicago, Ill., May 26–28.

Charlotte Ames, librarian, presented a paper titled "Manual and Electronic Retrieval Sources in Religious Studies and American Catholicism" at the College Theology Society Convention at Saint Mary's College, Notre Dame, Ind., May 27.

Scott Appleby, associate professor of history, presented "The Findings of the Fundamentalism Project" at the Praemium Erasmianum Foundation Conference in Amsterdam, The Netherlands, May 9. He presented the paper "Roman Catholic Responses to the Darwinian Revolution" at the National Science Foundation Conference in Dunedin, New Zealand, May 12.

Peri E. Arnold, professor of government and international studies, presented an invited talk titled "The National Performance Review in Historical Perspective" at the Center for United States Studies of the Woodrow Wilson International Center for Scholars in Washington, D.C., May 16.

J. Matthew Ashley, visiting assistant professor of theology, presented "The Relationship Between Theology and Spirituality: A Theologian's Overview" at the annual meeting of the Catholic Theological Society of America in Baltimore, Md., June 10.

Jacqueline Vaught Brogan, professor of English, presented "Planets on the Table: Stevens, Bishop, Rich, and Jordan" at the American Literature Association Meeting in San Diego, Calif., June 3. She presented "Strange Fruits in *The Garden of Eden*" at the Hemingway/Fitzgerald Conference in Paris, France, July 5.

John G. Brokowski, McKenna professor of psychology, presented the keynote paper "Major Trends in the Development of Theories, Models, and Measurements of Executive Functioning: A View from an Information Processing Perspective" at an NIH-sponsored conference on Attention, Memory and Executive Functioning in Bethesda, Md., Jan. 4. He participated in an NIH site visit to the

Faculty Notes

MRCDC at the University of Washington in Seattle, Wash., Jan. 10-12. He presented a talk on "Racism, Prejudice, and Early Childhood Development" at Bridges School in Granger, Ind., Feb. 12. He participated in the meeting of the MRDD study section of NIH in Bethesda, Md., March 9-11. Borkowski presented an invited address titled "Organismic-environmental Covariations: Implications for Cognitive Instruction, Self-regulation, and Mental Retardation" at a conference on Research and Theory in Mental Retardation and Developmental Disabilities in Gatlinburg, Tenn., March 22-25. He presented the papers "Explaining and Predicting Developmental Outcomes of Children of Adolescent Mothers" and "Antecedents, Correlates, and Consequences of Functional Play in Children of Adolescent Mothers" with Thomas Whitman, professor of psychology, and graduate students at that conference. He moderated a symposium and presented a position paper on "Life-long Learning: Is it all Smoke and Mirrors?" at the annual meetings of the American Educational Research Association in New Orleans, La., April 5-7. He was the discussant for a roundtable symposium on strategy instructions for learning disabled students at that meeting. He presented the address "Improving the Memory Skills of Young Children with Cognitive Impairment: Developing Efficient Strategies in the Early Years" at the University of Toledo in Toledo, Ohio, April 18. Borkowski presented the keynote address titled "Executive Functioning and Motivation in Children with Attentional Deficit Disorders" to the Italian Society for the Study of Attentional Deficit Disorders in Ferrara, Italy, April 28-29.

Joan F. Brennecke, assistant professor of chemical engineering, presented a paper titled "Spectroscopic Probes of Local Compositions in Liquid Mixtures and Comparison with g^E Models" co-authored by Olivier R. Carre and Christina B. Dirk at the second international Beijing symposium on Thermodynamics in Chemical Engineering and Industry in Beijing, China, May 24–27.

Linda Buyer, assistant professor of psychology, presented the poster "Representational and Strategic Differences Produced by Metacognitive Processing" at the sixth annual American Psychological Society Convention in Washington, D.C., July 2.

James J. Carberry, professor of chemical engineering, and C. Benjamin Alcock, Freimann professor of electrical engineering and director of the Center for Sensor Materials, received Patent No. 5,286,698, "Metal Oxide Catalysts" assigned to the University of Notre Dame.

Ian C. Carmichael, associate professional specialist in the Radiation Laboratory, presented the paper "Hyperfine Interactions in Some Nitrogenous Radical Ions From ab initio Calculation" at the XXVIIth Midwest Theoretical Chemistry Conference at the University of Missouri-Columbia in Columbia, Mo., May 19–21.

Neal M. Cason, professor of physics, presented an invited seminar titled "Photoproduction of the L=1 Charmed Mesons" at the University of Maryland in College Park, Md., April 27.

John E. Chateauneuf, associate professional specialist in the Radiation Laboratory, presented the paper "Picosecond Spectroscopic Investigations of Diphenylcarbene Protonation" at the 25th Reaction Mechanisms Conference at the University of Notre Dame, Notre Dame, Ind., June 10–15.

Daniel M. Chipman, professional specialist in the Radiation Laboratory, presented the paper "Structures and Fundamental Vibrations of p-Benzosemiquinone- and Phenoxyl-Related Radicals" at the XXVIIth Midwest Theoretical Chemistry Conference at the University of Missouri-Columbia in Columbia, Mo., May 19–21, and at the 18th DOE Solar Photochemistry Research Conference in Tahoe City, Calif., June 5–9.

Lawrence S. Cunningham, chairperson and professor of theology, taught a one-week course on the history of Christian spirituality and gave a public lecture on "The Continuing Relevance of Thomas Merton" at the East Asian Pastoral Institute of the Ateneo de Manila in the Philippines, March 7–12. He served as a consultant to the Lilly funded "Catholic Pluralism" project meeting at Purdue University in West Lafayette, Ind., April 15. He gave a presentation on "The Catechism of the Catholic Church" to the meeting of the Midwestern Superintendents of Education for Catholic Schools at the University of Notre Dame, Notre Dame, Ind., April 25. He presented the Catholic Studies Chair lecture "Mysticism and the Catholic Imagination" at the University of Toledo and at St. Patrick's Church in Toledo, Ohio, May 4.

Peter Diffley, associate dean in the graduate school, gave the invited presentation "Purposes and Problems of Consortia" as part of a panel discussion involving members of the Midwest Catholic Graduate School Group at a meeting on Jesuit Higher Education in the Heartland at Loyola University in Chicago, Ill., May 24.

William G. Dwyer, professor of mathematics, gave the invited lecture titled "The Centralizer Diagram for BG" at the Barcelona Conference on Algebraic Topology held in San Feliu de Guixols, Spain, June 1–7. He was one of the principal lecturers in the summer school on "The Steenrod Algebra and Compact Lie Groups in Homotopy Theory" held in the Mathematical Institute at the University of Warsaw in Warsaw, Poland, June 9–17. As part of the school's activities he delivered 10 lectures at the university on a variety of topics.

Faculty Notes

Guillermo J. Ferraudi, professional specialist in the Radiation Laboratory, presented the paper "Magnetokinetic Effects in Reactions of Inorganic Compounds" at the 18th DOE Solar Photochemistry Research Conference in Tahoe City, Calif., June 5–9.

James A. Glazier, assistant professor of physics, presented the invited seminars "Grain Growth in 2 and 3 Dimensions" and "Fractal Analysis of DNA Sequences" at the Department of Solid State Physics at the University of Barcelona in Barcelona, Spain, May 10, 12. He gave the invited seminar "The Energetics of Cell Sorting" to the Department of Materials Engineering at the Instituto Superior Técnico in Lisbon, Portugal, May 16.

Kimberly A. Gray, assistant professor of civil engineering and geological sciences, presented an invited paper titled "Treatment of Soils and Sediments: Radiolytic Dechlorination of Dioxins Using Colbalt–60" at the NSF workshop on Applications of Ionizing Radiation for Decontamination of Environmental Resources in Miami, Fla., June 2.

George S. Howard, professor of psychology, delivered the Psi Chi keynote address titled "Ecological Psychology: A New Area for Social Activism" at Western Missouri University in St. Joseph, Mo., March 16. He gave a talk titled "Steps Toward a Science of Free Will" at the Department of Psychology at Iowa State University in Ames, Iowa, March 17, the Department of Psychology at the University of Nebraska in Lincoln, Nebr., March 18, and the Department of Psychology at the University of New Mexico in Albuquerque, N.Mex., March 21. He presented a paper titled "The Perils of Prediction: Are Academically Ill-prepared Student Athletes Worth the Risk?" at Purdue University in West Lafayette, Ind., March 29, and at the Great Lakes Conference on Counseling Psychology at the University of Notre Dame, Notre Dame, Ind., April 16.

Gordon L. Hug, associate professional specialist in the Radiation Laboratory, presented the paper "Photoinduced Electron Transfer between Sulfur-Containing Carboxylic Acids and the 4-Carboxybenzophenone Triplet State in Aqueous Solution" at the 18th DOE Solar Photochemistry Research Conference in Tahoe City, Calif., June 5–9.

Prashant V. Kamat, professional specialist in the Radiation Laboratory, presented the invited papers "Semiconductor Particulate Films for the Photocatalytic Degradation of Organic Contaminants," "Nanocrystalline Semiconductor Thin Films" and "Photoinduced Charge Transfer Between C₆₀ and Colloidal TiO² Semiconductor Suspensions" at the 185th Electrochemical Society Meeting in San Francisco, Calif., May 22–25. He was chairman of the Fullerenes General Session at that meeting. He gave the invited seminar "Photoelectrochemical Behavior of Naked and Surface Modified Semiconductor Nanocrystallites" at the Biochemistry/Physical Chemistry Seminar Series at the University of California in Santa Cruz, Calif., May 26. He delivered the paper "Photoelectrochemical Behavior of Naked and Surface-Modified Nanocrystalline SnO₂ Semiconductor Films" at the 18th DOE Solar Photochemistry Research Conference in Tahoe City, Calif., June 5–9.

Kwan S. Kim, professor of economics and faculty fellow in the Kellogg Institute, presented a week-long seminar on "Equador's participation in free trade agreements from the perspective of open regionalism" jointly with Clark Reynolds, professor at Stanford University, at a workshop organized by FLASCO and USAID in Quito and Guayaquil, Equador, June 13–20.

Gary A. Lamberti, assistant professor of biological sciences, presented the paper titled "Influence of Exotic Invertebrates in Stream Ecosystems: Zebra Mussels and Rusty Crayfish in Indiana and Michigan" and coauthored the poster titled "Effects of Crayfish (*Orconectes* spp.) on Macroinvertebrate Assemblages in Northern Michigan Streams" at the annual meeting of the North American Benthological Society in Orlando, Fla., May 26.

A. Eugene Livingston, professor of physics, presented an invited talk titled "Spectroscopy of n= 2 States in Heliumlike Ions" at the National Institute of Standards and Technology in Gaithersburg, Md., June 14.

George A. Lopez, professor of government and international studies and fellow in the Kroc Institute, gave the Todd Sullivan Memorial Lecture titled "'Wicked Problems' and the Future Study of Violence and Peace" at the Indiana University Center for Global Peace and Change in Bloomington, Ind., May 13.

Scott P. Mainwaring, professor of government and international studies, gave a presentation on "Possibilities for Comparing Party Systems in New Democracies" at the Central European University in Budapest, Hungary, June 14.

Ralph M. McInerny, Grace professor of medieval studies, director of the Maritain Center and professor of philosophy, gave the lecture "Mystery Books" at the Indiana Library Association in Indianapolis, Ind., April 7. He presented the lecture "Authors Interlude" at the Arlington Heights Memorial Library in Arlington, Ill., April 15. He gave the commencement address and received an honorary Doctor of Humane Letters degree at St. John Fisher College in Rochester, N.Y., May 21. He lectured on "The Object on Which the Conscience Passes Judgment" in Orvieto, Italy, May 25. McInerny gave the lecture "History and Jacques Maritain" at the Canadian Maritain Society in Calgary, Canada, June 9. He presented "Christian Philosophy" at the Basics of Catholicism Conference in Notre Dame, Ind., June 11.

Daniel J. Pasto, professor of chemistry and biochemistry, served as the local chair of the 25th Reaction Mechanisms Conference which focused on the applications of physical and theoretical concepts to reactions in biochemistry, inorganic and organic chemistry at the University of Notre Dame, Notre Dame, Ind., June 10–15. He presented two posters titled "Oxidative C-S Bond Cleavage in the Self-Sensitized Singlet Oxygen Oxidation of Alkyl 4-Nitrophenyl Sulfides and Sulfoxides" and "Reactions of Alkoxy Radicals Generated by the Photo-Induced, Homolytic Dissociation of 4-Nitrobenzenesulfenates" and gave an oral presentation titled "Generation and Reactions of Alkoxy Radicals" at that conference.

Larry K. Patterson, faculty fellow in chemistry and assistant director of the Radiation Laboratory, presented the paper "Electron Transfer from Lipid Functionalized Pyrene in Langmuir Films to Lipid Bound and Bulk Phase Acceptors" at the 18th DOE Solar Photochemistry Research Conference in Tahoe City, Calif., June 5–9.

Wolfgang Porod, professor of electrical engineering, served as a member of the external review team for the graduate program in the Department of Electrical and Computer Engineering at the University of New Mexico in Albuquerque, N.Mex., Feb. 24–26.

Joseph M. Powers, assistant professor of aerospace and mechanical engineering, presented a paper titled "Multi-Dimensional Detonation Theory for Application to the Ram Accelerator" at the second Wright Laboratory/AFOSR Workshop on Integrated Theory and Numerics for Design Applications at Eglin Air Force Base in Okaloosa Island, Fla., June 15.

John E. Renaud, assistant professor of aerospace and mechanical engineering, presented a paper titled "Parametric Investigation of Plastic Snap Fastener Design" at the first S.M. Wu symposium on Manufacturing Science in conjunction with the 22nd North American Manufacturing Research Conference at Northwestern University in Evanston, Ill., May 27–29.

Jonathan R. Sapirstein, professor of physics, gave the talk "Theory of 2S-2P Transitions in Highly Charged Uranium" at the Lawrence Livermore National Laboratory in Livermore, Calif., June 1.

Steven R. Schmid, assistant professor of aerospace and mechanical engineering, chaired a session titled "Metal Forming - 1" at the 1994 meeting of the North American Manufacturing Research Institution of the Society of Manufacturing Engineers (NAMRC XXII) at Northwestern University in Evanston, Ill., May 26. Robert H. Schuler, Zahm professor of chemistry and biochemistry and director of the Radiation Laboratory, presented the paper "Mechanism of the Oxidation of Benzoquinone by Radiolytically Produced OH Radicals" at the 25th Reaction Mechanisms Conference at the University of Notre Dame, Notre Dame, Ind., June 10–15.

Rev. Timothy R. Scully, C.S.C., vice president and associate provost, associate professor of government and international studies and faculty fellow in the Kellogg Institute, gave the presentation "Decentralization: Limits and Possibilities" at a conference titled "Is Smaller Always Better?: Political Decentralization and Democracy in Latin America" at the Woodrow Wilson International Center for Scholars in Washington, D.C., June 7.

James H. Seckinger, director of the National Institute for Trial Advocacy and professor of law, served as program coordinator and a faculty member for the NITA/Fish & Neave Deposition Program in New York, N.Y., April 21-24. He gave a lecture and conducted a workshop for the faculty on Effective Teaching Techniques. He delivered a lecture and conducted a workshop for the faculty on Effective Teaching Techniques for the NITA/Western New York Trial Lawyers Association Program in Buffalo, N.Y., May 10-11. He was the program coordinator and a faculty member for the NITA/Pennie & Edmonds Deposition Program in New York, N.Y., May 20-22. He gave a lecture and conducted a workshop for the faculty on Effective Teaching Techniques. Seckinger served as program coordinator and a faculty member for the NITA/McCarthy Tetrault Trial Advocacy Program in Toronto, Canada, May 26–28. He gave a lecture and conducted a workshop for the faculty on Effective Teaching Techniques.

Mei-Chi Shaw, professor of mathematics, gave an invited talk titled " L^2 Estimates and Local Existence Theorems for the Tangential Cauchy-Riemann Operator" at the University of Washington in Seattle, Wash., May 23.

Daniel J. Sheerin, chairperson and professor of classical and Oriental languages and literatures, delivered the paper "Rhetorical and Hermeneutical Synkrisis in Some Greek Patristic Texts" at the annual meeting of the North American Patristics Society in Chicago, Ill., May 26.

Steven B. Skaar, associate professor of aerospace and mechanical engineering, received Patent No. 5,300,869, "Nonholonomic Camera Space Manipulation" assigned to Iowa State University. He received a foreign-travel grant from the U.S. Office of Naval Research to visit several centers including Oxford, London and Cambridge, England; Bielefeld and Bochum, Germany; Toulouse, Montpellier and Grenoble, France; and Barcelona, Spain, where ongoing research is being conducted which pertains to computer-vision guidance of various robotic devices, June 2–July 3.

Faculty Notes

Dennis M. Snow, associate professor of mathematics, was a guest professor supported by the DFG-Schwerpunkt "Komplexe Mannigfaltigkeiten" at the Ruhr-University in Bochum, Germany, May 11–June 8. He gave a lecture on "A Vanishing Theorem for Generalized Flag Manifolds" at that university.

Adolph L. Soens, associate professor of English, presented "Perception as Ethic: Native American Attentiveness and Ethical Reflexes" and "Immanent Holiness and Ethical Respect: Native American Poetry and Delight in the Sea of Holiness Surrounding" at Ethics in Daily Life at Southern Methodist University at Fort Burgwin, N.Mex., May 26–29.

James P. Sterba, professor of philosophy and faculty fellow in the Kroc Institute, presented a paper titled "Environmental Justice" at a colloquium on Our Changing Environment held at St. Louis University in St. Louis, Mo., Feb. 24. He gave a paper titled "From Rationality to Morality" at the Rochester Institute of Technology in Rochester, N.Y., March 17. He presented the paper "How to Make People Moral" at the University of South Florida in St. Petersburg, Fla., March 23. He presented a paper titled "The Justification of Morality and the Challenge of Cognitive Science" at a conference on Ethics and Cognitive Science held at Washington University in St. Louis, Mo., April 8-10. He presented two lectures titled "Reason and Morality" and "Reconciling Anthropocentric and Nonanthropocentric Environmental Ethics" at Knox College in Galesburg, Ill., April 11-13. Sterba presented "Feminist Justice and Sexual Harassment" as the Samuel Thompson Memorial Lecture at Monmouth College in Monmouth, Ill., April 14. He presented a paper titled "The Relevance of Alan Donagan's Moral Philosophy to Issues of War and Peace" at a conference on the Moral Philosophy of Alan Donagan held in the Peace Institute at the University of Notre Dame, Notre Dame, Ind., April 16–18. He presented a symposium paper on "Benhabib's Communicative Ethics and Rawls's Contractualism" and chaired a session on environmental ethics at the American Philosophical Association Central Division meeting held in Kansas City, Mo., May 4-7. Sterba and Janet Kourany, adjunct associate professor of philosophy, conducted a workshop on Ethics Across the Curriculum as well as a humanities workshop for over 50 faculty.members at Utah Valley State College in Provo, Utah, May 9-19.

Kathleen Maas Weigert, associate professional specialist and faculty liaison/academic coordinator in the Center for Social Concerns, faculty fellow in the Kroc Institute and concurrent associate professor of American studies, organized the justice and peace education conference "Educating for Citizenship and Discipleship" sponsored by the Association of Catholic Colleges and Universities and held at John Carroll University in Cleveland, Ohio, June 11–13.

John P. Welle, associate professor of Romance languages and literatures, gave an invited lecture "Dante and the Cinema" at the Italian Cultural Institute of Chicago in Chicago, Ill., May 19. He gave the invited lecture "L'Impero fantasma ed il professore" at the international conference "Visioni d'Europa" held at the University of Urbino in Urbino, Italy, May 27–30.

Rev. Oliver F. Williams, C.S.C., associate professor of management, presented "Report on the South African Elections" at the Kroc Institute for International Peace Studies at Notre Dame, Ind., May 10.

Laszlo Wojnarovits, associate professional specialist in the Radiation Laboratory, gave the invited lecture "Photolysis and Radiolysis of Liquid Alkanes" at the National Institute of Standards and Technology, U.S. Department of Commerce, in Washington, D.C., May 31.

Administrators' Notes

Activities

Michael Langthorne, associate director of Educational Media, presented information on educational technologies for the Illinois State Board of Education and selected chief financial officers at the First Chicago Capital Markets seminar in Chicago, Ill., March 31.

Nancy L. Thomas, director of Academic Facilities Management, and Gary Shumaker, director of Facilities Operations, co-chaired the 15th annual Facilities Planning Conference held at the University of Notre Dame, Notre Dame, Ind., June 6–8. Over 40 colleges and universities, as well as architects and planning consultants combined to explore and share current technology and practical experience in the areas of facilities development, utilization and management.

Ralph Vogel, team leader for Administrative Information Services, participated in a panel discussion on "TQM: Does It Deliver the Goods?" with representatives from the University of Louisville and the University of Michigan at the CUMREC Conference in Columbus, Ohio, May 4. CUMREC is an international association of college and university computer users.

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

Economics

Goulet, Denis A.

- D.A. Goulet. 1994. Material and Moral Incentives as Economic Policy Instruments. *Humanomics* 10(1): 5-24.
- Kim, Kwan S.
 - K.S. Kim. 1994. The Political Economy of Trade Liberalization and Integration: The Case of U.S.-Mexico Relations. Pages 31-55 *in*, J.C. Chen and C. Smekal, eds., Economic Effects of Regional Integration in Europe and North America. University of Innsbruck Press, Innsbruck, Austria.

English

Vanden Bossche, Chris R.

C.R. Vanden Bossche. 1994. Review of David Saunders, Authorship and Copyright. *Victorian Studies* 36:487-489.

Government and International Studies

Mainwaring, Scott P.

- S.P. Mainwaring. 1994. Review: The Political Economy of Argentina: Power and Class Since 1930 and Argentine Workers: Peronism and Contemporary Class Consciousness. *American Political Science Review* 88(1):240-241.
- S.P. Mainwaring. 1994. The Role of Elites: Review of Elites and Democratic Consolidation in Latin America and Southern Europe. *Journal of Democracy* 5(1):144-146.

Scully, Timothy R., CSC, Rev.

- Rev. T.R. Scully, CSC. 1994. What is Catholic About a Catholic University? Pages 313-329 *in*, Rev. T.M. Hesburgh, CSC, ed., The Challenge and Promise of a Catholic University. University of Notre Dame Press, Notre Dame, Indiana.
- Rev. T.R. Scully, CSC. 1993. Reconsidering the Shape of West European Electorates, 1885-1985. *Review of Politics* 55(1):185-189.

Music

- Smith, Peter H.
 - P.H. Smith. 1994. Brahms and Schenker: A Mutual Response to Sonata Form. *Music Theory Spectrum* (Spring).
 - P.H. Smith. 1994. Liquidation, Augmentation, and Brahms' Recapitulatory Overlaps. *Nineteenth-Century Music* (Spring).

Philosophy

McInerny, Ralph M.

R.M. McInerny. 1994. Jacques Maritain. Pages 563-565 in, J.A. Dwyer, ed., The New Dictionary of Catholic Social Thought. The Liturgical Press, Collegeville, Minnesota.

Romance Languages and Literatures

Olivera-Williams, María R.

M.R. Olivera-Williams. 1994. La muerte como fuerza creadora en la poesía de José Emilio Pacheco. Pages 134-144 *in*, H. Verani, ed., La Hoguera y el viento: José Emilio Pacheco ante la crítica. Era & Universidad Nacional Autónoma de México, Mexico City, Mexico.

Welle, John P.

J.P. Welle. 1994. Review of Pier Paolo Pasolini, Poetry, trans. by A. Mazza. *Quaderni d'italianistica* 14(1):173-175.

Sociology

Christiano, Kevin J.

K.J. Christiano. 1994. Pierre Elliott Trudeau: Reason Before Passion. ECW Press Limited, Toronto, Ontario, Canada. 165 pp.

COLLEGE OF SCIENCE

Biological Sciences

Kulpa, Charles F., Jr.

R. Boopathy, C.F. Kulpa, Jr., J. Manning and C.D. Montemagno. 1994. Biotransformation of 2,4,6-Trinitrotoluene (TNT) by Co-Metabolism with Various Co-Substrates: A Laboratory-Scale Study. *Bioresource Technology* 47:205-208.

Tweedell, Kenyon S.

K.S. Tweedell and D. Harnisch. 1994. Letter to the Editor - Intraocular Bioassay of a Pronephric Tumor Cell Line Cultivated on Macroporous Microcarrier Beads. *In Vitro Cellular Development Biology* 30A:85-86.

Mathematics

Faybusovich, Leonid

L. Faybusovich. 1994. On the Rutishauser's Approach to Eigenvalue Problems. Pages 87-102 *in*, P. Van Dooren and B. Wyman, eds., Linear Algebra for Control Theory. Springer-Verlag, New York, New York.

- X. Wang and J.J. Rosenthal. 1994. A Cell Structure for the Set of Autoregressive Systems. *Linear Algebra Applied* 205/206:1203-1226.
- M.S. Ravi and J.J. Rosenthal. 1994. A Smooth Compactification of the Space of Transfer Functions with Fixed McMillan Degree. Acta Applicandae Mathematicae 34:329-352.
- J.A. Ball and J.J. Rosenthal. 1994. Pole Placement, Internal Stablization and Interpolation Conditions for Rational Matrix Functions: A Grassmannian Formulation. Pages 21-30 *in*, P. Van Dooren and B. Wyman, eds., Linear Algebra for Control Theory. Springer-Verlag, New York, New York.

Sommese, Andrew J.

- A. Lanteri, M. Palleschi and A.J. Sommese. 1994. On Triple Covers of Pⁿ as Very Ample Divisors. Pages 277-292 *in*, C. Ciliberto, E.L. Livorni and A.J. Sommese, eds., Contemporary Mathematics 162. Classification of Algebraic Varieties, L'Aquila, Italy.
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Computer Science and Engineering

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Electrical Engineering

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See under Chemical Engineering; Varma, Arvind. 1994. Journal of Materials Research 9(5):1184-1192.

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COLLEGE OF BUSINESS ADMINISTRATION

Accountancy

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Management

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LAW SCHOOL

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INSTITUTE FOR INTERNATIONAL PEACE STUDIES

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RADIATION LABORATORY

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UNIVERSITY LIBRARIES

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Summary of Awards Received and Proposals Submitted

In the period May 1, 1994, through May 31, 1994

AWARDS RECEIVED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	8	484,189	18	901,282	26	1,385,471
Facilities and Equipment	0	0	1	50,000	1	50,000
Instructional Programs	2	271,958	2	105,900	4	377,858
Service Programs	1	30,000	3	8,253	4	38,253
Other Programs	<u>0</u>	<u>0</u>	<u>0</u>	Q	<u>0</u>	. 0
Total	11	786,147	24	1,065,435	35	1,851,582

PROPOSALS SUBMITTED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	12	1,745,815	22	6,749,590	34	8,495,405
Facilities and Equipment	0	0	0	0	0	0
Instructional Programs	0	0	0	0	0	0
Service Programs	1	39,464	1	6,692	2	46,156
Other Programs	1	204,928	<u>2</u>	38,559	<u>3</u>	243,487
Total	14	1,990,207	25	6,794,841	39	8,785,048

Awards Received

In the period May 1, 1994, through May 31, 1994

AWARDS FOR RESEARCH

Aerospace and Mechanical Engineering

Renaud, J.

Multidisciplinary Design Optimization Development National Science Foundation \$30,000 30 months Nelson, R. Tail Buffeting Due to Vortex Breakdown NASA - Ames Research Center \$39,599 12 months

Anthropology

Schurr, M., Bellis, J. Geophysical Equipment for Archaeology National Science Foundation \$19,150 24 months

Biological Sciences

Lodge, D. REU Supplement National Science Foundation \$4,133 36 months

Civil Engineering and Geological Sciences

Gaillard, J. The Fate of Trace Metals in Freshwater Sediments National Science Foundation 30 months \$33,853 Spencer. B. Analysis and Visualization of Stochastic Systems National Science Foundation \$47,804 12 months Makris, N., Hill, D. Seismic Protection of Structure National Science Foundation 30 months \$70,000 Pyrak-Nolte, L. Computer-Aided Visualization of Crack and Fracture Geometry Department of the Navy 36 months \$94,968 Seismic Wave Attenuation during Frictional Sliding National Science Foundation \$45,000 12 months

Chemical Engineering

Chang, H. Wave Dynamics on Failing Films Department of Energy 12 months \$59,774 Smith, B. Artificial Metal Cation/Saccharide Cotransporters Research Corp. \$50.000 60 months Castellino, F., Christiansen, W. Structure-Function Relationships of Protein C American Heart Association - Ind. \$10,000 12 months Creary, X. Carbanion, Carbocation, Carbenic, and Electron Transfer National Science Foundation 36 months \$88,000

Chemistry and Biochemistry

Castellino, F., Prorok, M. Properties of Synthetic Peptide Analogs of Protein C Domains American Heart Association - Ind. \$18,600 12 months

Cushwa Center for the Study of American Catholicism

Appleby, R. Conservative American Catholics Indiana University, Bloomington \$10,000 12 months

Electrical Engineering

Porod, W., Lent, C., et al. Quantum Cellular Automata Department of the Navy \$302,949 36 months

Government and International Studies

Leege, D. National Election Studies Institute for Social Research \$600 45 months

Mathematics

Taylor, L., Dwyer, W. Algebraic and Geometric Topology National Science Foundation \$112,800 42 months

Rosenthal, J.

Algebraic Methods in Systems Theory National Science Foundation \$60,000 36 months

Physics

Dobrowolska-Furdyna, M., Furdyna, J., et al. **Optical Studies of Heterostructures** National Science Foundation \$90,000 36 months Wiescher, M. 18 F Reaction Branching in the Hot CNO Cycles North Atlantic Treaty Organization \$8,105 24 months Glazier, J. Senior Visiting Fellowship Royal Irish Academy \$880 6 months Ruggiero, S. Single Electron Tunneling and Spectroscopy Department of Energy \$47,530 12 months Livingston, A. Highly Charged Ions in an Electron Beam Ion Trap National Institute of Standards and Technology \$37,067 12 months Tegler, S., Rettig, T. Relative Abundance of Ices in Disks of T Tauri Stars NASA - Lunar Planetary Institute \$15,000 36 months Psychology

Borkowski, J., Whitman, T. Research Training in Mental Retardation National Institutes of Health \$89,659 12 months

AWARDS FOR FACILITIES AND EQUIPMENT

Electrical Engineering

Minniti, R., Bernstein, G. Microelectronics Laboratory Equipment International Business Machines \$50,000

AWARDS FOR INSTRUCTIONAL PROGRAMS

Center for Bioengineering and Pollution Control

Irvine, R.

GAANNP Scholarships in Environmental Research Department of Education \$235,458 12 months

Chemistry and Biochemistry

Lappin, A. Research Experiences for Undergraduates in Chemistry National Science Foundation \$36,500 36 months

O.S.I.P.A.

Borelli, M. PWMEGS Department of Education \$99,900

12 months

Physics

Glazier, J. NYI Supplement for Disabled Undergraduate National Science Foundation \$6,000 24 months

AWARDS FOR SERVICE PROGRAMS

Biological Sciences

Craig, G. St. Joseph County Vector Surveillance Program St. Joseph County Health Department \$30,000 8 months

ND Center for Pastoral Liturgy

Bernstein, E. Center for Pastoral Liturgy Various Others \$1,864 1 month Center for Pastoral Liturgy Various Others \$5,639 1 month

Center for Continuing Formation in Ministry

Lauer, E. Center for Continuing Formation in Ministry Various Others \$750 1 month

Proposals Submitted

In the period May 1, 1994, through May 31, 1994

PROPOSALS FOR RESEARCH

Aerospace and Mechanical Engineering

Mueller, T. NASA National Space Grant College and Fellowship Program Purdue University \$107,179 12 months Dunn, P., Brach, R. Study of the Impact Dynamics of Microparticles with Surfaces Central Indoor Air Research \$307,941 36 months

Anthropology

Press, I. Patient Satisfaction as a Quality of Care Indicator National Institutes of Health \$326,414 12 months

Biological Sciences

Muller, T. Analysis of T Cells in Secondary Leishmania Infection National Institutes of Health \$129,360 12 months Hyde, D. Molecular Analysis or Phototransduction National Institutes of Health \$264.980 12 months McAbee, D. Molecular Basis of Lactoferrin-Cell Interactions National Science Foundation 48 months \$1,128,641 Bender, H. Human Genetics Program-Regional Genetics Center Indiana State Department of Health \$186.501 24 months Carlton. R. Control of Methane Release from Lake Sediments **Environmental Protection Agency** 24 months \$171,754 Martin, V. Molecular Examination of Embryogenesis National Science Foundation 36 months \$395,998

Fraser, M. Genetic Analysis of the IFP2 Transposon of Trichoplusia ni National Science Foundation \$596,124 36 months Eldon, E. Cellular Interactions Mediating Morphological Movements March of Dimes Birth Defects 24 months \$73,259 **Civil Engineering and Geological Sciences** Halfman, J. Modern Sedimentation Processes in Lake Malawi National Science Foundation \$31,448 24 months Pyrak-Nolte, L. Seismic Visualization of DNAPL Distribution in Soils **Environmental Protection Agency** \$365.205 36 months Gray, K. Photocatalytic and Radiolytic Processes National Science Foundation 12 months \$118,223 Neal, C. Development of Laser Probe ICP-MS Analytical Capabilities National Science Foundation \$120.136 24 months Kareem, A. Northridge Earthquake Modelling and Damage Diagnostics National Science Foundation \$79,902 12 months **Chemical Engineering** Wolf, E. Pd Based Catalysts for Methane Oxidation Gas Research Institute \$423.505 36 months Brennecke, J.

Presidential Young Investigator Award National Science Foundation \$120,747 12 months

Chemistry and Biochemistry

Basu, S. Glycosyltransferases in Avian Embryos Exposed to Biochemistry Univ. Di Milano \$43,581 12 months

Castellino, F., Bretthauer, R. Oligosaccharide Assembly on Recombinant Proteins National Institutes of Health \$270,908 12 months

Castellino, F. Blood Coagulation Protein-Metal Ion-Lipid Interactions National Institutes of Health \$317,383 12 months

Economics

 Kim, K., Betson, D.
Economic Conditions for Social and Political Stability National Science Foundation \$18,073
30 months

Electrical Engineering

Antsaklis, P., Lemmon, M. Hybrid Feedback Control of Manufacturing Systems Department of the Air Force \$417,353 36 months Costello, D. Properties of Self-Assembling Quantum Dots in 1nGaAs/GaAs University of California, Santa Barbara \$891,668 60 months

Physics

Kolata, J. Nuclear Structure Research National Science Foundation \$13.312 12 months Tegler, S., Rettig, T. Relative Abundance of Ices in Disks of T Tauri Stars NASA - Lunar Planetary Institute \$22,100 12 months Ruchti, R. High Energy Collider Physics Department of Energy \$134,327 12 months Livingston, A. Atomic Physics Using an ECR Ion Source University of Alberta \$3.473 36 months Rydberg States in Multiply Charged Ions Department of Energy \$132,916 12 months Glazier, J. National Young Investigator Award National Science Foundation \$57,239 12 months

Wiescher, M.

Reaction Rates and Nucleosynthesis at Novae Conditions University of Arizona \$111,191 36 months

Psychology

Bergeman, C. Optimal Aging; A Longitudinal Family Study National Institutes of Health \$33,934 12 months

Theology

Ulrich, E., VanderKam, J. The Publication of Four Volumes of Dead Sea Scrolls National Endowment for the Humanities \$677,117 24 months

South Bend Center for Medical Education

Olson, K. Volume Regulation and Cardiovascular Homeostasis in Fish I.U. School of Medicine \$403,511 36 months

PROPOSALS FOR SERVICE PROGRAMS

Biological Sciences

Craig, G. St. Joseph County Vector Surveillance Program St. Joseph County Health Department \$39,464 8 months

Academic Services for Student Athletes

Marlowe, D. NYSP-ND Indiana Department of Education \$6,692 1 month

PROPOSALS FOR OTHER PROGRAMS

O.S.I.P.A.

Borelli, M. CANDAX McNair Department of Education \$204,928

12 months

Program of Liberal Studies

Power, F.

Russian Awards Program and Eurasian Awards Program NAFSA/Association of International Educators \$26,720 12 months

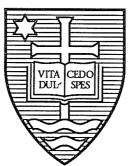
South Bend Center for Medical Education

O'Malley, J.

Internet Library Services for Indiana Medical Education I.U. School Medicine

\$11,839

12 months



NOTRE DAME REPORT

Volume 23, Number 19

July 8, 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 Willa Murphy, Gerard Jacobitz, Layout Publications and Graphic Services 415 Main Building Notre Dame, IN 46556 (219) 631-5337

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