

NOTRE DAME REPORT

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FACULTY NOTES

Honors

Panos J. Antsaklis, professor of electrical engineering, was selected a member of the board of governors of the IEEE Control Systems Society for a three-year term beginning Jan. 1, 1994. He will also be the vice president for conference activities of that society for 1994.

Katharina J. Blackstead, associate librarian, has been appointed chairperson of the Library Administration and Management Association's Public Relations Section's Continuing Education Committee.

John G. Borkowski, McKenna professor of psychology, and his wife, Martha, received the Cross of St. Benedict from Benedictine College, Atchison, Kans., at the Governor's Ball in Overland Park, Kans., Feb. 20.

Chau T.M. Le, associate dean of the graduate school, has been named an "officier" in l'Ordre des Palmes Academiques. It is conferred by the French Minister of National Education on professors, writers, scholars and scientists who have distinguished themselves in the field of education and in the advancement of studies in the literary and artistic fields.

David C. Leege, professor of government and international studies, was appointed to the 1993 pilot study committee of the National Election Studies.

Gilbert D. Loescher, professor of government and international studies, has been appointed a member of the editorial board for the United Nations High Commissioner for Refugees Biennial Report, *The State of the World's Refugees*. He has been appointed special rapporteur and international expert on the issue of internally displaced people for five regional UNHCR-NGO conferences to be held in Caracas, Nairobi, Bangkok, Tunis and Budapest and an international U.N. conference in Oslo during 1993.

Michael K. Sain, Freimann professor of electrical engineering, received the Best Presentation Award for his presentation of the paper titled "Acceleration Feedback Control Strategies for Aseismic Protection" co-authored by Billie F. Spencer Jr., associate professor of civil engineering and geological sciences, S.J. Dyke and P. Quast at the Experimental Video Session during the American Control Conference at San Francisco, Calif., June 3. The presentation incorporated a video of the same title which was prepared in the Earthquake Engineering/Structural Dynamics and Control Laboratory at the University of Notre Dame by the authors mentioned above, together with Jeffrey C. Kantor, professor of chemical engineering, and was produced by J. Kellow.

Activities

Mark Alber, assistant professor of mathematics, gave an invited talk "Soliton and Homoclinic Geometric Phases" at the international conference on Geometric Methods in Theoretical and Computational Mechanics held at the Mathematisches Forschungsinstitut Oberwolfach, Germany, July 29.

Panos J. Antsaklis, professor of electrical engineering, gave a series of advanced graduate seminars on "Intelligent Control" while a visiting professor at the Department of Electronic and Computer Engineering at the Technical University of Crete, Greece, during June. He presented a paper titled "On Polynomial and Rational Matrix Interpolation" and lead a panel discussion titled "Towards Autonomous Control Systems" at the IEEE Mediterranean symposium on New Directions in Control Theory and Applications in Chania, Crete, Greece, June 21-23. He served as general chair of the eighth IEEE international symposium on Intelligent Control held in Chicago, Ill., Aug., 25-27.

Hafiz M. Atassi, professor of aerospace and mechanical engineering and director of the Center for Applied Mathematics, gave a seminar on "Unsteady Aerodynamics and Acoustics of Vortical Flows" at the Centre National de la Recherche Scientifique in Paris, France, May 14, and at the University of Lyon, Lyon, France, May 26. He co-authored three papers titled "Direct Calculation of Sound Radiated from a Loaded Cascade in a Gust" with J. Fang, "Acoustic Radiation from a Lifting Airfoil in Nonuniform Subsonic Flows" with S.M. Patrick and C.M. Davis and "High-Frequency Interaction Noise of Loaded Propellers Operating at Low Tip Speeds" with Srinivasan Subramanian at the ASME Fluids Engineering Conference in Washington, D.C., July 20-24.

John G. Borkowski, McKenna professor of psychology, presented two talks "Individualizing the Predoctoral Training Experience" and Winning in the Competitive Renewal Process" at a meeting of training grant directors from the National Institute for Physical and Rehabilitative Medicine at NIH in Bethesda, Md., Feb. 22. He presented a colloquium on "Are Cognitive Declines Inevitable with Advancing Age?" at Rockhurst College in Kansas City, Mo., March 29. He gave the keynote address "The Concept of Possible Selves and the Instruction of the LD Children" to the Italian Society of Special Educators in Catania, Sicily, Italy, April 2.

Jay B. Brockman, assistant professor of computer science and engineering, presented the lecture "Efficient Management of Manufacturing Based Design Tasks" at the Delco Electronics IC Design Center in Kokomo, Ind., May 20. He co-authored the paper "Design Management Using Dynamically Defined Flows" presented at the ACM/IEEE Design Automation Conference in Dallas, Tex., June 17.

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Theodore J. Cachey Jr., associate professor of Romance languages and literatures, gave the invited lecture "Pietro Bembo and the *Questione della Lingua*" at an NEH Summer Institute for College and University Teachers titled "Culture in Crisis: Italy, 1494-1527" at Northwestern University in Evanston, Ill., June 29.

Hsueh-Chia Chang, chair and professor of chemical engineering, presented an invited general lecture titled "Nonlinear Wave Evolution on a Falling Film" at the international union of Theoretical and Applied Mechanics on Nonlinear Instability of Nonparallel Flows at Potsdam, N.Y., July 29.

Kevin J. Christiano, chair and associate professor of sociology, chaired a special "Authors Meet the Critics" session on *The Churching of America, 1776-1990: Winners and Losers in Our Religious Economy* by Roger Finke and Rodney Stark (New Brunswick, N.J.: Rutgers University Press, 1992) at the annual meeting of the Association for the Sociology of Religion in Miami Beach, Fla., Aug. 10-13.

Malgorzata Dobrowolska-Furdyna, assistant professor of physics, gave an invited talk on "Diluted Magnetic Semiconductors as a Tool for Wave Function Mapping in Semiconductor Heterostructures" at the international conference on Luminescence at the University of Connecticut in Storrs, Conn., Aug. 12.

John G. Duman, professor of biological sciences, delivered an invited talk "Extracellular Proteins Involved in Freeze Tolerance: Ice Nucleated and Antifreeze Proteins" at a symposium on "Freeze Tolerance in Nature" at the international congress of Physiological Science held in Glasgow, Scotland, July 27-Aug. 5.

Jeremiah P. Freeman, professor of chemistry and biochemistry presented a seminar titled "Regio- and Stereoselective Syntheses of 1,2-Diamino-acid 1,2,3-Triaminocyclohexane Derivatives" at the University of Hannover, Germany, July 22.

Bei Hu, assistant professor of mathematics, gave an invited talk "Stefan Problem with Kinetic Condition Arising in Semiconductor Processing" at the international conference on Free Boundary Problems: Theory and Application in Toledo, Spain, June 21-26.

Nai-Chien Huang, professor of aerospace and mechanical engineering, presented a paper titled "Analysis of Interface Fracture in Composites" at the ninth international conference on Composite Materials in Madrid, Spain, July 12-16.

Carlos Jerez-Farrán, associate professor of Romance languages and literatures, presented "La liebre como símbolo de ambigüedad sexual en *El publico* de García Lorca" and or-

ganized and chaired the session "Gay and Lesbian Studies in Hispanic Literature" at the Kentucky Foreign Language Conference at the University of Kentucky in Lexington, Ky., April 24.

Kwan S. Kim, professor of economics and faculty fellow in the Kellogg Institute, presented the paper titled "NAFTA and AFTA" at an international symposium on regional integration organized by the Economic Research Institute at Daito Bunka University in Tokyo, Japan, April 23. He presented a co-authored paper with R. Minami on "The Distribution of Income in Prewar Japan: New Findings" at an Institute of Economic Research seminar at Hitotsubashi University, May 19. He delivered a series of lectures on "Comparative Industrial Policies: Japan and Korea" at Hitotsubashi University, February-May, and a two-week seminar on "Open-Economy Macroeconomics" at the University of Innsbruck, Austria, June 16-30. Kim collaborated with the economics faculty of Innsbruck in organizing the joint Notre Dame-Innsbruck conference on "Economic Effects of Regional Integration in Europe and North America" held in Innsbruck, Austria, June 21-23. The title of his paper was "The Political Economy of Trade Liberalization and Integration: The Case of U.S.-Mexico Relations."

David C. Leege, professor of government and international studies, delivered an eight-part lecture series on Religion and Politics to the Camp Arcadia Elderhostel in Arcadia, Mich., June 7-12.

A. Eugene Livingston, professor of physics, co-authored four papers: "Rydberg Transitions in High Angular Momentum States of Si^{10+} ," "Direct Measurements of 2s-2p Energies in High-z Heliumlike Ions," "Measurements of Excited State Lifetimes in Atomic Cesium" and "Branching Ratio for the M1 Decay of the 2s State in One-electron Krypton" at the 1993 annual meeting of the Division of Atomic, Molecular and Optical Physics of the American Physical Society in Reno, Nev., May 16-19. He presented an invited paper titled "Relativistic Atomic Structures in Highly-Charged Ions" at the annual congress of the Canadian Association of Physicists in Vancouver, Canada, June 13-16.

David Lodge, associate professor of biological sciences, gave the paper "Variable Species — Selection by Herbivorous Crayfish: The Importance of Plant Quality" and "Variable Species — Selection by Herbivorous Crayfish Importance of Variation in Macrophyte Quality" at the annual meeting of the Ecological Society of America in Madison, Wis., July 31-Aug. 3.

Gilbert D. Loescher, professor of government and international studies, presented the paper "The UNHCR: Stretched to the Limit?" at a Wilton Park and Twentieth Century Fund Conference on the United Nations: A New Role in a New World Order? at Wilton Park, England, May 26. He

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gave the paper "Internally Displaced People: The International Community's Response" at a U.N. Conference in Caracas, Venezuela, June 30-31. He presented the paper "Refugee Movements and International Stability" at a NATO-German Government conference on national security at Christian-Albrechts University in Kiel, Germany, July 20.

Michael N. Lykoudis, associate professor of architecture, gave the lecture "Contemporary Classical and Traditional Architecture and Urbanism in the United States and Europe" to the Society of Greek Architects in Athens, Greece, June 28.

Anthony N. Michel, McCloskey dean and Freimann professor of engineering, presented a paper titled "Lyapunov Stability of Dynamical Systems Determined by Differential Inequalities with Applications to Robust Stability" at the 12th world congress of the International Federation of Automatic Control held in Sidney, Australia, July 18-23.

Joseph E. O'Tousa, associate professor of biological sciences, gave the invited speech "Molecular Studies on Drosophila Retinal Degeneration Genes" at the FASEB conference on Biology and Chemistry of Vision at Copper Mountain, Colo., June 20-25.

Dean A. Porter, director of the Snite Museum of Art and associate professor of art, art history and design, delivered the lecture "Victor Higgins — Real American Art at Last!" at the Southern Methodist University Fort Bergwyn campus in Taos, N.M., July 8. He spoke on the Taos Founders in the Harwood Museum Collection at the University of New Mexico in Taos, N.M., July 10. He spoke on Victor Higgins and the Taos Society of Artists in the Taos Institute of Arts program on Early Taos Artists at the Martinez Hacienda in Taos, N.M., July 14.

Joachim Rosenthal, assistant professor of mathematics, presented the invited lecture "On Feedback Stabilization of Autoregressive Systems" at the University of Groningen in Groningen, The Netherlands, June 23. He presented the paper "On Subsets of Autoregressive Systems and Stabilization Conditions" at the European Control Conference in Groningen, The Netherlands, June 28-July 1. He gave the talk titled "Transfer Functions, Autoregressive Systems and their Feedback Interconnection" at the Center for Mathematics and Computer Science in Amsterdam, The Netherlands, July 6. He gave the talk "A Generalized Hautus Test of Observability" at the University of Eindhoven in Eindhoven, The Netherlands, July 13.

James H. Seckinger, director of the National Institute for Trial Advocacy and professor of law, served as a faculty member for the NITA Hanley Master Advocates Program at

the University of Colorado School of Law in Boulder, Colo., July 3-8. He was a faculty member for the NITA National Session Program at the University of Colorado School of Law in Boulder, Colo., July 10-15.

Dennis M. Snow, associate professor of mathematics, gave two lectures titled "Dolbeault Co-homology of Homogeneous Line Bundles" and "Weyl Group Orbits" at the meeting of the Clavius Group at Boston College in Boston, Mass., July 19-30.

Andrew J. Sommese, professor of mathematics, gave the talk "The Complete Solution of the Nine-point Path Synthesis Problem for Planar Four-bar Linkages" at the Max-Planck-Institut für Mathematik in Bonn, Germany, July 14.

Nancy K. Stanton, professor of mathematics, gave a colloquium lecture on "Rigid hypersurfaces in \mathbb{C}^n " at the University of Chicago in Chicago, Ill., May 28.

James P. Sterba, professor of philosophy and faculty fellow in the Institute for International Peace Studies, presented "Environmental Justice" at Shawnee State University in Portsmouth, Ohio, March 1. He presented "Environmental Justice" to the International Society of Environmental Ethics and "Reconciling Anthropocentric and Nonanthropocentric Environmental Ethics" to Concerned Philosophers for Peace and chaired a session on political philosophy at the central division meeting of the American Philosophical Society held in Chicago, Ill., April 22-25. He conducted a workshop on environmental ethics to the Aspin in Chicago Institute, May 15-16. He presented "Feminist Justice and Sexual Harassment" at a conference on "Justice: Race, Gender, Class" at the Humanities Center of the University of Oregon in Eugene, Oreg., May 17-19. He gave the plenary lecture "Reconciling Conceptions of Justice" at the World Congress of Philosophy of Law and Social Philosophy held at the University of Iceland in Reykjavik, Iceland, May 27-June 2. He presented "Environmental Justice" at the 10th international Social Philosophy Conference held at the University of Helsinki, Aug. 17-20.

Andrei V. Veselov, research associate in the Radiation Laboratory, presented the paper "Medium Effects on the ESR Spectrum of the Hydrated Electron" co-authored by Richard W. Fessenden, associate director of the Radiation Laboratory and professor of chemistry and biochemistry, at the Rocky Mountain Conference on Analytical Chemistry in Denver, Colo., July 26-29.

Karen J. White, assistant professor of psychology, presented the paper "Peer Group Social Status: Gender Differences in Subjective Experience and Peer Perceptions" with A. Heesacker at the annual meeting of the Midwestern Psychological Association in Chicago, Ill., May 1.

ADMINISTRATORS' NOTES

Appointments

Michelle T. Shakour has been appointed assistant director of the Office of Planned Giving. A 1978 graduate of Saint Mary's College, Shakour obtained a master's degree in Spanish from Middlebury College in 1981, a master's degree in secondary education from Indiana University in South Bend in 1987 and a juris doctor degree from the Notre Dame Law School in 1990. From 1988-90 she taught Spanish at Notre Dame. Following her graduation from the Notre Dame Law School, she was an associate of Jones, Obenchain, Ford, Pankow & Lewis before opening her own law office in January 1992.

Activities

Denis Ellis, executive chef for Notre Dame Food Services, participated in the "Chef's Event for Hunger Relief in Africa" tour in South Africa, Aug. 4-16.

David Prentkowski, director of Notre Dame Food Services, was a panel discussion participant at the "Trends and Opportunities" conference of the National Restaurant Association for Chicago/College Food Service in Chicago, Ill., May 23-25. He gave a presentation of "Strategic Planning" at the national conference of the National Association of College and University Food Services in Nashville, Tenn., July 10. He gave a presentation of "Peer Review Programs" at the conference of Midwestern Food Service Professionals at the University of Iowa in Iowa City, Iowa, July 27.

Jill Riggs, senior manager of the North Dining Hall for Notre Dame Food Services, was invited to participate in the National Association of College and University Food Services Leadership Institute held at the Tyson Institute, Ark., June 5-12. She was recommended to attend this conference based on the positive impact that she has given to Notre Dame Food Services through her highly-regarded leadership qualities and her self-starter working style. She was honored to be chosen as one of 30 participants from 61 applications.

Gary Shumaker, director of Facilities Operations, and Nancy Thomas, director of Academic Facilities Management, gave a presentation on the development and construction of the DeBartolo classroom building at the 15th annual Facilities Conference held at the University of Georgia in Athens, Ga., June 2-4. The presentation provided a historic overview of program development and defined the technology which supports the distributed delivery system for video and computer projection throughout the facility.

Timothy Truesdell, director of development research, presented "The Case for Electronic Screening" at the national conference of the American Prospect Research Association held in St. Louis, Mo., Aug. 4-7.

Publication Schedule for *Notre Dame Report* Volume 23 — 1993-94

Number	Copy Deadline	Publication Date
1	August 18, 1993	September 3, 1993
2	September 1, 1993	September 17, 1993
3	September 15, 1993	October 1, 1993
4	October 6, 1993	October 22, 1993
5	October 20, 1993	November 5, 1993
6	November 3, 1993	November 19, 1993
7	November 17, 1993	December 3, 1993
8	December 1, 1993	December 17, 1993
9	January 5, 1994	January 21, 1994
10	January 19, 1994	February 4, 1994
11	February 2, 1994	February 18, 1994
12	February 16, 1994	March 4, 1994
13	March 2, 1994	March 18, 1994
14	March 16, 1994	March 31, 1994
15	March 30, 1994	April 15, 1994
16	April 13, 1994	April 29, 1994
17	April 27, 1994	May 13, 1994
18	May 18, 1994	June 10, 1994
19	June 22, 1994	July 8, 1994
20	July 13, 1994	July 29, 1994
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Notre Dame Report Submission Information

Faculty Members (all classes: teaching research faculty, special professional faculty, and librarians and special research faculty) may submit information to be printed in *Notre Dame Report* to the Research Division of the Graduate School, 312 Main Building. Standardized cards for submissions of Faculty Notes and Current Publications and Other Scholarly Works are available at the Office of Research in the Graduate School (631-7432).

Faculty Notes:

Appointments include only those University appointments such as deans, department heads, heads of committees, public relations and development professionals and advisory council members. This does not include appointments to faculty positions.

Honors is comprised of non-University appointments in one's field and outright honors. It does not include fellowships, grants, etc. Any grants not published in the Awards Received section of the *Report* should be noted in Activities.

Activities must be of a professional and public nature (such as invited lectures and papers read) and should be related to one's work at the University. Lectures given on campus are only acceptable if they are of a special nature and/or if they are presented to a broader audience than the Notre Dame community. Merely attending a meeting is unacceptable. Information required for each activity submitted includes: name, rank, title of presentation, title of meeting, place and date. No activities are printed ahead of the date, only after the fact. Activities will not be printed over six months out of date.

Current Publications and Other Scholarly Works:

Submissions of current publications are due on the Friday prior to the copy deadlines stated on this page.

Administrators' Notes:

Items are accepted from **Administrative Staff** and follow the same guidelines as Faculty Notes. Standardized cards are available by contacting *Notre Dame Report* (631-5337). Submissions should be sent to 415 Main Building.

Minutes of Meetings:

The only meeting minutes printed in the Documentation section are from the Graduate Council, Academic Council, Faculty Senate, University Committee on Libraries, Committee on Research and Sponsored Programs, and Faculty Board in Control of Athletics. These minutes should be sent to 415 Main Building.

DOCUMENTATION

Official University of Notre Dame Academic Year Calendar for 1994-95

Fall 1994 Semester

August 26 Friday
Orientation, enrollment and registration for new upperclass
and graduate students

August 26-28 Friday-Sunday
Orientation and counseling for freshmen

August 29 Monday
Enrollment for all continuing students and freshmen

August 30 Tuesday
Classes begin at 8 a.m.

September 7 Wednesday
Last date for all class changes

October 21 Friday
Midsemester Deficiency Reports due in Registrar's Office by
4 p.m.

October 22-30 Saturday-Sunday
Midsemester break

October 31 Monday
Classes resume at 8 a.m.

November 4 Friday
Last day for course discontinuance

November 24-27 Thursday-Sunday
Thanksgiving holiday

November 28 Monday
Classes resume at 8 a.m.

December 13 Tuesday
Last class day

December 14, 18 Wednesday, Sunday
Study Days (no examinations)

December 15-17, 19-20 Thursday-Saturday, Monday-Tuesday
Final examinations

December 22 Tuesday
All grades due in the Registrar's Office by 3 p.m.

Spring 1995 Semester

January 16 Monday
Orientation, enrollment and registration

January 17 Wednesday
Classes begin at 8 a.m.

January 25 Wednesday
Last date for all class changes

March 10 Friday
Midsemester Deficiency Reports due in Registrar's Office by
4 p.m.

March 11-19 Saturday-Sunday
Midsemester break

March 20 Monday
Classes resume at 8 a.m.

March 24 Friday
Last day for course discontinuance

April 14-17 Friday-Monday
Easter holiday

April 18 Tuesday
Classes resume at 8 a.m.

May 3 Wednesday
Last class day

May 4-7 Thursday-Sunday
Study days (no examinations)

May 8-12 Monday-Friday
Final examinations

May 16 Tuesday
All degree candidate grades are due in the Registrar's Office
by 3 p.m.

May 17 Wednesday
All other grades are due in the Registrar's Office by 3 p.m.

May 19-21 Friday-Sunday
Commencement weekend

THE GRADUATE SCHOOL OFFICE OF RESEARCH

Jump Start Grants

The following Jump Start Grants have been awarded to individuals planning to use educational technologies in their courses.

Anne McGuire, Department of Theology. Integrating maps, architectural information, sound, and historical representations (icons, mosaics, baptistries, vessels, artistic representations of liturgies such as Eucharist and Baptism) into computer-generated presentations.

Sun-Joo Shin, Department of Philosophy. Using computer technology to help students learn how to reason logically and aide them in solving logical reasoning problems and analytic reasoning puzzles.

Eduardo Wolf, Department of Chemical Engineering. Developing software which permits teaching via interaction between students working on individual terminals. Students will be able to read a problem and choose symbols to write the mathematical formulation of the problem and its solution. The instructor will be able to monitor student progress on another computer.

Zahm Research Travel Fund Awards for 1992-93

The Graduate School announces the following awards from the Zahm Research Travel Fund for the period July 1, 1992, through June 30, 1993.

Tristan Borer, Department of Government and International Relations. Questioning the State: The Rise of Prophetic Christianity, its Implications for Eroding Legitimacy, and Consequences for the South African Struggle. South Africa. \$1,500.

Richard Conroy, Department of Government and International Relations. The United Nations in the Post-Cold War Era. New York, New York. \$300.

Willy W. Cortez, Department of Economics. The Political Economy of Industrial Stagnation: The Case of Peru's Textile Industry. Lima, Peru. \$1,000.

Teresa Elston, Department of Sociology. Public Health Care in Brazil. Sao Paulo, Brazil. \$1,300.

Kelly Hamilton, Department of History. Wittgenstein, Hertz, and Boltzmann: The Philosophical Contribution of Wittgenstein's Scientific Education to the Tractatus Logico-Philosophicus. \$650.

Hannah Elizabeth Kettler, Department of Economics. Firm Organization and Strategy as Explanatory Variables for Direct Investment and Their Impact on Regional Development: The Case of Automobiles in Eastern Germany. Frankfurt, Leipzig, Berlin, Munich and Wolfsburg, Germany. \$1,200.

John E. Klentos Jr., Department of Theology. Liturgical Life in a Twelfth Century Constantinopolitan Monastery. Rome, Italy. \$1,000.

Yung C. Lee, Department of Government and International Relations. A Comparative Study on the Labor Policy Making in Korea, 1970-1988. Pusan and Seoul, Korea. \$1,200.

Luis Fernando Lopez, Department of Economics. Prospects of Medium Term Economic Growth in Columbia. Bogota, Colombia. \$1,000

Thomas Luongo, Medieval Institute. Catherine of Siena: Reading and Rewriting the Holy Authority. Rome, Siena and Florence, Italy. \$650.

Allegra Sedney, Department of History. The Bridgettine Sisters of Syon Abbey and Their Books. London, Exeter and Cambridge England. \$1,000.

THE GRADUATE SCHOOL OFFICE OF RESEARCH

Current Publications and Other Scholarly Works

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

COLLEGE OF ARTS AND LETTERS

Classical and Oriental Languages and Literatures

Amar, Joseph P.

- J.P. Amar. 1993. An Unpublished *Karšūnī* Arabic Life of Ephrem the Syrian. *Le Muséon* 106(Fasc. 1-2):119-144.

Economics

Dutt, Amitava K.

- A.K. Dutt. 1993. Review of The Joan Robinson Legacy, I. Rima, ed. *Business Library Review* 18(2):120-124.

Kim, Kwan S.

- K.S. Kim. 1993. An Alternative Strategy for Equitable Growth in Developing Countries. *Hitotsubashi Journal of Economics* 34(2):47-68.

- K.S. Kim. 1992. Estrategias de Industrialización, Empleo y Distribución de Ingresos en México. Pages 331-361 in, L. Montuschi and H. Singer, eds., *Los Problemas del Desarrollo en América Latina*. Fondo de Cultura Económica, México and Buenos Aires, Argentina.

Wilber, Charles K.

- C.A. Wilber. 1993. Review of Underground Economics: A Decade of Institutional Dissent, by W.M. Dugger. *Journal of Economic Issues* 27(1):250-252.

- C.K. Wilber. 1993. What is NAFTA? Economics and the New World Order. *The Christian Century* 110(19):630-634.

English

O'Rourke, William A.

- W.A. O'Rourke. 1993. Writers Play Out Ambitions on Different Stages. Reviews of Public Life, by E. Akins and At Sea, by T. Olson. *The South Bend Tribune* (06/27/93):9, Section E.

History

Hamlin, Christopher S.

- C.S. Hamlin. 1993. Review of Paris Sewers and Sewermen, by D. Reid. *Bulletin of the History of Medicine* 67:357-359.

Philosophy

Burrell, David B., CSC

- D.B. Burrell, CSC. 1991. Freedom of Creatures of a Free Creator. *Jaarboek Thomas-Institut Te Utrecht* 11:5-23.

- D.B. Burrell, CSC. 1991. Naming God Among Jews, Christians and Muslims. *Reports from Center of Theological Inquiry (Princeton)* (4):20-34.

Program of Liberal Studies

Crosson, Frederick J.

- F.J. Crosson. 1993. Rejoinder to Bruce Marshall. *The Thomist* 57(2).

Psychology

White, Karen J.

- J.E. Lochman, K.K. Wayland and K.J. White. 1993. Social Goals: Relationship to Adolescent Adjustment and to Social Problem Solving. *Journal of Abnormal Child Psychology* 21(2):135-151.

Theology

Bradshaw, Paul F.

- P.F. Bradshaw. 1993. The Offering of the Firstfruits of Creation: An Historical Study. Pages 29-41 in, R.N. McMichael, Jr., ed., *Creation and Liturgy: Studies in Honor of H. Boone Porter*. Pastoral Press, Washington, D.C.

COLLEGE OF SCIENCE

Chemistry and Biochemistry

Castellino, Francis J.

- L. Zhang and F.J. Castellino. 1993. The Contributions of Individual γ -Carboxyglutamic Acid Residues in the Calcium-Dependent Binding of Recombinant Human Protein C to Acidic Phospholipid Vesicles. *Journal of Biological Chemistry* 268(16):12040-12045.

- D.J. Davidson and F.J. Castellino. 1993. The Influence of the Nature of the Asparagine 289-Linked Oligosaccharide on the Activation of Urokinase and Lysine Binding Properties of Natural and Recombinant Human Plasminogens. *Journal of Clinical Investigation* 92:249-254.

- See under Chibber, Bakshy, A.K. 1993. *Proceedings of the National Academy of Science, USA* 90(June):5374-5377.

Chibber, Bakshy A.K.

- A.M. Mhashikar, T. Viswanatha, B.A.K. Chibber and F.J. Castellino. 1993. Breaching the Conformational Integrity of the Catalytic Triad of the Serine Protease Plasmin: Localized Disruption of a Side Chain of His-603 Strongly Inhibits the Amidolytic Activity of Human

THE GRADUATE SCHOOL OFFICE OF RESEARCH

Plasmin. *Proceedings of the National Academy of Science, USA* 90(June):5374-5377.

Fehlner, Thomas P.

K.J. Deck, T.P. Fehlner and A.L. Rheingold. 1993. Communications: Synthesis and Characterization of $(\text{Cp}^*\text{Co})_3(\mu_3\text{-HBH})_2$, an Inorganometallic Analog of Biscarbyne Complex. *Inorganometallic Chemistry* 32:2794-2795.

Thomas, J. Kerry

M.A.T. Marro and J.K. Thomas. 1993. Movement of Small Molecules on a Silica Surface: A Photophysical and Photochemical Study. *Journal of Photochemistry Photobiology A: Chemistry* 72:251-259.

X. Liu, K.-K. Iu and J.K. Thomas. 1993. Preparation, Characterization and Photoreactivity of Titanium (iv) Oxide Encapsulated in Zeolites. *Journal of Chemical Society Faraday Transfer* 89(11):1861-1865.

Mathematics

Dwyer, William G.

W.G. Dwyer, S.M. Jekel and A.I. Suciu. 1993. Homology Isomorphisms between Algebraic Groups Made Discrete. *Bulletin of the London Mathematical Society* 25:145-149.

Physics

Bishop, James M.

H.W.K. Cheung, et al., Notre Dame (J.M. Bishop, J.K. Busenitz, N.M. Cason, J.D. Cunningham, R.W. Gardner, C.J. Kennedy, G.N. Kim, T.F. Lin, E.J. Mannel, R.J. Mountain, D.L. Puseljic, R.C. Ruchti, W.D. Shephard, J.A. Swiatek, Z.Y. Wu and M.E. Zanabria). 1992. High Energy Photoproduction of Charm Baryons. Pages 1082-1085 in, J.R. Sanford, ed., *Proceedings of the XXVI International Conference on High Energy Physics, Volume I, Dallas, Texas*.

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COLLEGE OF ENGINEERING

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LAW SCHOOL

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LOBUND LABORATORY

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COLLEGE OF BUSINESS ADMINISTRATION

Finance and Business Economics

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T.F. Cosimano and J.B. VanHuyck. 1993. Central Bank Secrecy, Interest Rates and Monetary Control. *Economic Inquiry* 31(July):370-382.
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THE GRADUATE SCHOOL OFFICE OF RESEARCH

Summary of Awards Received and Proposals Submitted

In the period July 1, 1993, through July 31, 1993

AWARDS RECEIVED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	9	1,018,009	15	787,973	24	1,805,982
Facilities and Equipment	0	0	1	67,967	1	67,967
Instructional Programs	1	37,500	0	0	1	37,500
Service Programs	0	0	4	23,447	4	23,447
Other Programs	<u>0</u>	<u>0</u>	<u>1</u>	<u>75,000</u>	<u>1</u>	<u>75,000</u>
Total	10	1,055,509	21	954,387	31	2,009,896

PROPOSALS SUBMITTED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	5	268,711	8	8,439,424	13	8,708,135
Facilities and Equipment	0	0	1	496,127	1	496,127
Instructional Programs	0	0	1	60,042	1	60,042
Service Programs	0	0	0	0	0	0
Other Programs	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total	5	268,711	10	8,995,593	15	9,264,304

THE GRADUATE SCHOOL OFFICE OF RESEARCH

Awards Received

In the period July 1, 1993, through July 31, 1993

AWARDS FOR RESEARCH

Aerospace and Mechanical Engineering

Nelson, R.
X-31 Project
NASA - Ames Research Center
\$39,912 12 months

Biological Sciences

Lodge, D.
Food Webs and Nutrients: Benthic Community Responses
National Science Foundation
\$66,034 36 months

Hyde, D.
Molecular Analysis of Phototransduction in *Drosophila*
National Institutes of Health
\$205,344 12 months

Martin, V.
Nervous System Development in Embryonic *Hydra vulgaris*
Sigma Xi
\$500 12 months

Civil Engineering and Geological Sciences

Gaillard, J.
The Fate of Trace Metals in Freshwater Sediments
National Science Foundation
\$30,021 12 months

Chemical Engineering

Varma, A.
Mechanistic Studies of Combustion Synthesis
National Science Foundation
\$20,553 24 months

Mechanistic Studies of Combustion Synthesis
National Science Foundation
\$75,000 24 months

Leighton, D.
Migration in Bidisperse and Polydisperse Suspensions
Lockheed Comp.
\$25,467 12 months

Varma, A., Strieder, W.
Synthesis of Silicon Nitride
ACS Petroleum Research Fund
\$50,000 26 months

Chemistry and Biochemistry

Huber, P.
Protein Binding Domains on Eukaryotic 5S rRNA and rDNA
National Institutes of Health
\$189,643 12 months

Castellino, F., Bretthauer, R.
Oligosaccharide Assembly on Recombinant Proteins
National Institutes of Health
\$204,282 12 months

Jacobs, D.
Dynamics of Molecular Ion Scattering on Surfaces
National Science Foundation
\$126,500 17 months

Smith, B.
Dynamic Control of the Binding of Neutral Biomolecules
National Science Foundation
\$95,000 12 months

Electrical Engineering

Bernstein, G.
Presidential Faculty Fellows Program
National Science Foundation
\$100,000 24 months

German and Russian Languages and Literatures

Gasperetti, D.
Postdoctoral Fellowship in Russian Studies
Social Science Research Council
\$27,000 27 months

Law School

Lewers, W.
Teaching and Research Program in International Human Rights Law
Ford Foundation
\$250,000 36 months

Mathematics

Wong, P.
Theory of Several Complex Variables
National Science Foundation
\$51,139 36 months

Thorbergsson, G.
Differential Geometry of Submanifolds
National Science Foundation
\$26,594 36 months

THE GRADUATE SCHOOL OFFICE OF RESEARCH

Physics

Johnson, W., Sapirstein, J.
Weak Interactions in Atomic Physics
National Science Foundation
\$142,000 24 months

Sapirstein, J.
NIST Institutional Benefit from IPA Agreement
National Institute of Standards and Technology
\$9,019 3 months

Bunker, B.
Materials Research Collaborative Access Team (MRCAT)
Amoco Chemical Research Center
\$25,000

Psychology

Anderson, D.
Behavior-Based Approach to Increased Sales
KitchenAid, Inc.
\$12,549 36 months

Sociology

Glass, J., Fujimoto, K.
U.S.-Japan Gender Comparison of Worker Attitudes
National Science Foundation
\$2,425 12 months

Theology

Ulrich, E.
The Publication of Three Volumes of Dead Sea Scrolls
Oxford Centre for Hebrew Studies
\$32,000 24 months

AWARDS FOR FACILITIES AND EQUIPMENT

Physics

Browne, C., Aprahamian, A., et al.
Upgrading Equipment and Instrumentation
National Science Foundation
\$67,967 24 months

AWARDS FOR INSTRUCTIONAL PROGRAMS

Aerospace and Mechanical Engineering

Mueller, T.
NASA National Space Grant College and Fellowship
Program
Purdue University
\$37,500 12 months

AWARDS FOR SERVICE PROGRAMS

ND Center for Pastoral Liturgy

Bernstein, E.
Center for Pastoral Liturgy
Various Others
\$75 1 month

Center for Pastoral Liturgy
Various Others
\$3,041 1 month

Center for Continuing Formation in Ministry

Cannon, K.
Center for Continuing Formation in Ministry
Various Others
\$20,000 1 month

Programs for Church Leaders

Tebbe, F.
Program for Church Leaders
Various Others
\$331 1 month

AWARDS FOR OTHER PROGRAMS

Institute for Urban Studies

Smith, R.
Lilly Endowment Planning Grant
Lilly Endow., Inc.
\$75,000 24 months

THE GRADUATE SCHOOL OFFICE OF RESEARCH

Proposals Submitted

In the period July 1, 1993, through July 31, 1993

PROPOSALS FOR RESEARCH

Aerospace and Mechanical Engineering

Stanisic, M.

Kinematic Design of Singularity Free Manipulators

NASA - Langley Research Center

\$225,344 36 months

Renaud, J., Batill, S., et al.

Multidisciplinary Design Technology Development

NASA - Langley Research Center

\$782,429 36 months

Biological Sciences

Boyd, S.

Neuropeptide Control of Behavior

National Science Foundation

\$735,674 60 months

Bender, H.

Human Genetics Program - Regional Genetics Center

Indiana State Department of Health

\$67,942 12 months

College of Engineering

Michel, A.

Robust Stability in Power Systems

National Science Foundation

\$223,972 24 months

Physics

Cushing, J.

Studies in Science, Technology and Society

National Science Foundation

\$100,000 27 months

Rettig, T., Tegler, S.

Dynamical and Chemical Evolution of Planet Forming

Material

NASA - Lunar Planetary Institute

\$88,991 36 months

Ruchti, R., Wayne, M., et al.

Scintillating Fiber Tracking

Purdue University

\$70,236 12 months

Bunker, B.

Experimental Facilities Studies at Advanced Photon Source

Department of Energy

\$6,217,277 60 months

X-Ray Studies of II-VI Semiconductor Interfaces and Alloys

Department of the Navy

\$89,533 12 months

Newman, K.

Structural Properties and Phase Diagrams of Semiconductors

Department of the Navy

\$26,000 10 months

Tegler, S., Rettig, T.

Relative Abundance of Ices in Disks of T Tauri Stars

NASA - Lunar Planetary Institute

\$15,000 12 months

Sociology

Chaves, M.

Granting Full Clergy Rights to Women

Louisville Institute

\$65,737 21 months

PROPOSALS FOR FACILITIES AND EQUIPMENT

Computer Science and Engineering

Lumsdaine, A., Chen, Z., et al.

Multiprocessor for Parallel Algorithms and Environments

National Science Foundation

\$496,127 36 months

PROPOSALS FOR INSTRUCTIONAL PROGRAMS

College of Arts and Letters

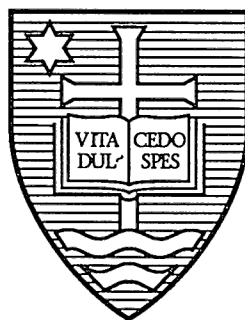
Wegs, J., Buttigieg, J.

Nation-State and Transmission of Culture in E.C.U.S.

Relations

Department of Education

\$60,042 24 months



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