



# NOTRE DAME REPORT

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JULY 25, 1997 • NUMBER 20

## University Receives Four CASE Awards

Notre Dame has captured four 1997 Circle of Excellence Awards from the Council for Advancement and Support of Education (CASE).

*Notre Dame*, the University's quarterly magazine, earned three awards for writing. John Monczunski, associate editor, received a gold medal for a story on urban planning and architecture; Kerry Temple, editor, received a silver medal for an essay on homosexuality; and Kent Meyers, a freelance contributor, earned a bronze medal for his article on the value of animals.

Publications and Graphic Services received a silver medal in the visual design in print category for the cover of the summer 1996 issue of *Notre Dame Review*, a biannual publication of the Creative Writing Program. The cover was designed by Patrick Ryan and edited by Marilyn Bellis.

## Graduation-Rate Rankings for Student-Athletes Announced

Notre Dame ranks third among the nation's Division I-A colleges and universities in the cumulative graduation rate of all student-athletes and is first in women's sports, according to an annual report compiled by the National Collegiate Athletic Association (NCAA).

The 1997 NCAA Graduation-Rates Report, the seventh such survey issued by the association, covers students who enrolled between 1987 and 1990 at 306 Division I institutions. NCAA graduation rates are based on the comparison of the number of students who entered an institution and the number of those who graduated within six years. The report regards students who leave or transfer, regardless of academic standing, as nongraduates. Among Notre Dame student-athletes who complete their eligibility at the University, 99 percent earn a degree.

Based upon the NCAA's primary standard, Notre Dame graduated 87 percent of its student-athletes, trailing only Duke University at 91 percent and Boston College at 88 percent. The national average was 59 percent.

Notre Dame graduated 97 percent of women competing in varsity athletics at the University, tops among the 110 Division I-A schools. The 84-percent graduation rate of male student-athletes ranks third nationally.

Notre Dame football players graduate at a 77 percent rate, seventh nationally, and 84 percent of Notre Dame men's basketball players graduate, third highest in the Big East Conference.

Notre Dame's 87-percent graduation rate is first among the top 20 universities in the 1997 Sears Directors Cup rankings of all-around athletic excellence, demonstrating that academic and athletic success need not be mutually exclusive.

Among the general student body, Notre Dame's graduation rate of 94 percent trails only Harvard, Princeton and Yale Universities.

# FACULTY NOTES

## Appointments

**Daniel J. Saracino** has been named to the newly created position of assistant provost for enrollment, effective July 1. This new position replaces that of director of admissions. Saracino, who graduated from Notre Dame in 1969 with a bachelor's degree in government and international relations and earned his master's degree in education administration in 1975, has been the top admissions professional at Santa Clara University for 20 years, most recently as dean of enrollment management. He has held a series of positions of ascending responsibility at Santa Clara since 1977 — first as director of admissions, then as dean of undergraduate admissions from 1984 to 1994, and finally as dean of enrollment management, a position in which he oversaw an entire new division encompassing admissions and related student services. His career in admissions began at Notre Dame, where he served as assistant director from 1969 to 1975 and associate director from 1975 to 1977. Saracino has played leadership roles in professional associations including the College Board's Western region, the Catholic College Admission Association, the National Association for College Admission Counseling, the Conference of Jesuit Admissions Directors, and the Association of Independent California Colleges and Universities.

## Honors

**Philip Gleason**, professor emeritus of history, was elected president of the Immigration History Society, April 19, after serving three years as vice president and president-elect. To honor his retirement, a conference titled "Understandings of America: Ethnicity, Intellectual History, and American Catholicism" was held at the University of Notre Dame, Notre Dame, Ind., April 25.

**Sr. Mary Catherine Hilkert, O.P.**, associate professor of theology, has received the first Sophia Award from the Washington Theological Union. The award was established this year to honor theologians whose work has contributed to an understanding of the contemporary church.

**Sophia K. Jordan**, librarian, was elected a member-at-large for 1997-99 for the Preservation and Reformatting Section of the Association for Library Collections and Technical Services, a division of the American Library Association.

**Albin A. Szewczyk**, professor of aerospace and mechanical engineering, has been appointed as an adjunct professor in the Division of Applied Marine Physics at the University of Miami Rosenstiel School of Marine and Atmospheric Science in Miami, Fla.

## Activities

**John H. Adams**, assistant professor of biological sciences, presented the invited speech for the featured symposium "Contributions of Molecular Biology in Solving Problems in Parasitology" at the annual Midwestern conference of Parasitologists at Butler University in Indianapolis, Ind., June 5-7.

**Ani Aprahamian**, associate professor of physics, gave the invited seminar titled "Nucleosynthesis in Explosive Astrophysical Scenarios" at the Czech Technical University in Prague, Czech Republic, May 15. She gave the invited talk titled "Nuclear Masses in the  $A = 80$  Region" at the international conference for Nuclear Data in Science and Technology in Trieste, Italy, May 19. She gave an invited talk titled " $K = 0^+$  Excitations in Deformed Nuclei" at the workshop on Nuclear Physics with GEANIE at LANSCE in Taos, N.Mex., June 23.

**Albert-Laszlo Barabási**, assistant professor of physics, gave the seminar "Scaling Properties of Ion-Bombarded Surfaces" at the Central Institute of Physics at the Hungarian Academy of Science in Budapest, Hungary, June 5. He gave the invited talk "Epitaxial Growth and Self-Ordering in Semiconductors" at the XXVI International School on Physics of Semiconducting Compounds in Jaszowiec, Poland, June 8. He presented the invited talk "Self-assembled Quantum Dot Formation on Semiconductor Surfaces" at the Gordon Research Conference on Thin Films and Crystal Growth Mechanisms at Plymouth State College in Plymouth, N.H., July 10.

**Scott D. Bridgham**, assistant professor of biological sciences, presented an invited symposium talk titled "An Experimental Approach to Determining Climate Change Impacts on Southern Boreal Peatlands" to Biogeomon at the third international symposium on Ecosystem Behavior at Villanova University in Villanova, Pa., June 21-25.

**Ian C. Carmichael**, associate professional specialist in the Radiation Laboratory, presented "Atomic Spin Densities from Correlation Consistent Basis Sets" at the ninth international congress of Quantum Chemistry in Atlanta, Ga., June 9-14.

**Daniel M. Chipman**, professional specialist in the Radiation Laboratory, presented "New Quantum Mechanical Operators for ESR Hyperfine Coupling and NMR Spin-Spin Coupling Constants" at the ninth international congress of Quantum Chemistry in Atlanta, Ga., June 9-14. He co-authored the presentation by graduate student Chang-Guo Zhan titled "An Effective Implementation of Volume Polarization in the Self-Consistent Reaction Field Theory" at that congress.

# FACULTY NOTES

**Michael J. Crowe**, professor in the Program of Liberal Studies and in the graduate program in history and philosophy of science, served as co-program chair and local arrangements chair for the third biennial History of Astronomy Workshop held at the University of Notre Dame, Notre Dame, Ind., June 19–22. He presented a poster paper titled “Calendar of the Correspondence of Sir John Herschel” at that conference, June 20. He gave an invited talk on “The History of the Extraterrestrial Life Debate” at a panel on Science and Religion in the Golden Age of Astronomy at a meeting of the Astronomical Society of the Pacific in Chicago, Ill., June 28.

**Alan Dowty**, professor of government and international studies, presented the paper, “Changing Norms in International Responses to Domestic Disorder” with **Gilbert D. Loescher**, professor of government and international studies, at the Canadian-U.S. Symposium on Global Governance at the Joan B. Kroc Institute for International Peace Studies, Notre Dame, Ind., May 10. Dowty gave a briefing to Turkish journalists on Israeli politics which was sponsored by the U.S. Information Agency in Istanbul, Turkey, May 14. He presented the lecture “The Arab-Israel Conflict and Israeli Domestic Politics” to the Department of Political Science at Bogazici (Bosphorus) University in Istanbul, Turkey, May 15. Dowty and Loescher presented the paper “Changing Norms in International Responses to Domestic Disorder” at the international conference on International Norms: Origins, Significance, and Manifestation at the Leonard Davis Institute for International Relations at Hebrew University in Jerusalem, Israel, May 26. Dowty lectured on “Haim Kayemet Politika Yehudit? (Is There a Jewish Politics)” to the Department of Political Science and the Jaffee Center for Strategic Studies at Tel Aviv University in Tel Aviv, Israel, June 5. He presented “Refugee Flows as Grounds for International Action” to a panel on Refugees and Conflict: Cause or Effect? for the Association of the Bar of the City of New York in New York, N.Y., June 10. He served as organizer and chair of the keynote session on “Zionism — Marking 100 Years” which included his own presentation on “Zionism and Jewish Politics” at the annual conference of the Association for Israel Studies in Atlanta, Ga., June 22.

**William G. Dwyer**, Hank professor of mathematics, gave the invited plenary speech “Natural Transformations” at the international conference on Algebraic Topology held at Kazimierz, Poland, June 12–19.

**Barbara J. Fick**, associate professor of law, gave television interviews regarding her new book *ABA Guide to Workplace Law* and on worker rights on “Fox on Money,” Fox News Channel, June 14, and “CNN Morning News,” CNN, June 24.

**Michael Francis**, professor of government and international studies, delivered a paper on “NAFTA: Globalization versus Regional Competition” at the Midwest Political Science Association meeting in Chicago, Ill.

**Philip Gleason**, professor emeritus of history, presented the paper “Immigrant Assimilation and Changes in the Civic Culture in the 1960s” at a conference sponsored by the Social Science Research Council held in Santa Fe, N.Mex., May 1–4.

**Denis Goulet**, O’Neill professor in education for justice, economics, delivered a paper on “What Is Development, After Post-Modernism” to the world congress on Convergence in Knowledge, Space and Time in Cartagena, Colombia, June 2. He delivered closing remarks to the Plenary Assembly of the congress, June 5. He gave two classes on “Using Development Indicators” to the Escuela de Lideres, Alternativa (Centro de Investigación Social y Educación Popular) in Lima, Peru, June 9, 11. He presented a public lecture on “Desarrollo Humano: Debates Actuales e Indicadores” to the Instituto Bartolomé de Las Casas in Lima, Peru, June 10. Goulet gave a public lecture on “Desarrollo Humano Integral: Una Perspectiva Etica” to the Centro Oscar Romero, Grupo de Iniciativa Economía Solidaria, in Lima, Peru, June 11. He served as resource for a workshop on Building Grassroots Development Indicators for the leaders of Community Kitchens, Los Olivos (Cono Norte), in Lima, Peru, June 12.

**Dirk M. Guldi**, associate professional specialist in the Radiation Laboratory, presented “Photoinduced Electron Transfer in Supramolecular Fullerene/Ferrocene Systems” at the 21st DOE Solar Photochemistry Meeting in Copper Mountain, Colo., June 7–11.

**Alan L. Johnson**, professor of biological sciences, presented a poster titled “*c-myc* mRNA and Protein in Hen Ovarian Follicles: Relationship to Follicle Development and Granulosa Cell Apoptosis” at the Endocrine Society Meeting in Minneapolis, Minn., June 11–13.

**Sophia K. Jordan**, librarian, gave the preconference presentation “Scanning for Beginners” at the annual meeting of the American Library Association in San Francisco, Calif., June 27.

**Ahsan Kareem**, professor of civil engineering and geological sciences, was named a member of the Technical Program Committee of the 1997 National Hurricane Conference. He delivered an invited keynote lecture titled “Jousting With the Wind: A Reflection on the Past Lessons and Outlook for the 21st Century” at that conference in Houston, Tex., April 22–25.

# FACULTY NOTES

**Charles F. Kulpa Jr.**, professor of biological sciences, gave the invited presentation "The Utilization of Microbial Activities for Solving Environmental Problems: Biodegradation or Biotransformation of Hazardous Compounds" at CIENTEC '97 meeting in Panama City, Panama. He gave the invited talk on the topic "Environmental Research at Notre Dame" to the Notre Dame Alumni Club of Panama in Panama City, Panama, May 28-June 4.

**Grant Mathews**, professor of physics, gave the invited talk titled "Heavy Ion Collisions with  $A=10^{58}$ : Methods of General Relativistic Hydrodynamics" at Spacetime '97 at Michigan State University in East Lansing, Mich., May 28. He presented the Astrophysics Colloquium titled "General Relativistic Numerical Hydrodynamics for Close Neutron Star Binaries" at the University of North Carolina in Chapel Hill, N.C., June 13. He gave the invited talks "Relativistic Studies of Close Neutron Star Binaries" and "Gamma-Ray Bursts from Neutron Star Binaries" at the eighth Marcel Grossmann meeting on General Relativity at the Givat Ram Campus of the Hebrew University in Jerusalem, Israel, June 25-27. He presented the invited lectures "Galaxy Formation and Light Element Abundances" and "Comments on Standard, Nonstandard and Inhomogeneous Primordial Nucleosynthesis" at the international workshop on the Synthesis of Light Nuclei in the Early Universe at the European Centre for Theoretical Studies in Nuclear Physics and Related Areas in Trento, Italy, July 1-3.

**Rev. Wilson D. Miscamble**, C.S.C., associate professor of history, gave the invited lecture "How Containment Came About: The Evolution of the Truman Administration's National Security Strategy" at Old Dominion University in Norfolk, Va., March 25. He presented "The Challenges of Reconstruction: Lessons from History" at a conference on Building Bridges Between Relief and Development sponsored by the U.N. Department of Humanitarian Affairs and the U.N. Development Programme at the U.N. Staff College Project in Turin, Italy, April 13. He presented the invited papers "Preparation: The Evolution of an [American] Internationalist" and "Inheritance: Franklin Roosevelt's Uncertain Legacy" to the Cold War History Seminar at the University of California in Santa Barbara, Calif., April 22.

**William A. O' Rourke**, professor of English, gave a reading from *Campaign America '96: The View from the Couch* at the Flint Public Library in Flint, Mich., June 4.

**Wolfgang Porod**, professor of electrical engineering, served as the external thesis opponent for a Ph.D. dissertation defense at Chalmers University of Technology in Gothenburg, Sweden, June 9. He presented a research seminar on "Quantum-dot Cellular Automata" at that institution.

**Joachim Rosenthal**, associate professor of mathematics, presented the invited talks "Inverse Eigenwertprobleme, Polvorgabe und Beziehungen zum Quantum-Ring der Grassmann-Varietaet" im Fachbereich Algebraic Geometry and "Faltungscodes und Systeme ueber endliche Koerpern" im Graduierten-Kolleg Techno-Mathematik at the University of Kaiserslautern, June 9-13.

**Uri Sarid**, assistant professor of physics, delivered the invited seminar "Gauge-Mediated Supersymmetry Breaking with a Large Higgs Hierarchy" at the University of Michigan Physics Department in Ann Arbor, Mich., April 25. He chaired the session on Gauge-Mediated SUSY Breaking at SUSY '97, The fifth international conference on Supersymmetries in Physics, at the University of Pennsylvania in Philadelphia, Pa., May 28.

**Patrick J. Schiltz**, associate professor of law, gave a presentation on legal ethics at the annual convention of the Kentucky Bar Association in Louisville, Ky., June 20.

**Steven R. Schmid**, assistant professor of aerospace and mechanical engineering, chaired a session "Modeling and Simulation of Manufacturing Processes" and presented the paper "Nano-Scale Friction and Wear Study Using Atomic Force Microscopy" at the McNu'97 conference.

**Robert Schmuhl**, chairperson and professor of American studies, discussed "The Media and Politics" on the Australian Broadcasting Corporation's radio program "Drive-Time 720," July 1. He delivered an invited public lecture titled "Who's Winning the Communications Revolution?" at the University of Notre Dame Australia in Fremantle, Australia, July 2.

**Thomas L. Shaffer**, Short professor of law, delivered the keynote address "Faith Disrupts Legal Order" at a conference on the Role of Religion in the Work of a Lawyer at Fordham University in New York, N.Y., June 1. He presented a paper on teaching legal ethics clinically at a national conference on the teaching of legal ethics at the College of William and Mary in Williamsburg, Va., March 20-22.

**Susan Guise Sheridan**, assistant professor of anthropology, presented an invited lecture titled "Biocultural Analysis of a Monastic Community: Human Adaptability Reconstructed from Ossuary Remains" to the Department of Anthropology at California State University in Los Angeles, Calif., June 6.

**Thomas Gordon Smith**, chairperson and professor of architecture, gave a "Presentation of the Curriculum of the School of Architecture" for the Indianapolis summer program of the American Institute of Architects in Noblesville, Ind., May 11.

# FACULTY NOTES

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Billie F. Spencer, Jr., professor of civil engineering and geological sciences, chaired the meeting of the Committee on Structural Control, Structural Division, of the American Society of Civil Engineers, May 15. He delivered an invited seminar titled "Reliability of Seismically Excited Structures using Magnetorheological Damping" in the Center of Mechanics at the Institute for Fundamental Technological Research at the Polish Academy of Sciences in Warsaw, Poland, June 16. He delivered an invited lecture titled "Seismic Protection of Structures: Current Status and Future Trends" at the Summer School on "Durability Studies of Environmental Protection Structures" in the Institute for Fundamental Technological Research at the Polish Academy of Sciences in Warsaw, Poland, June 17.

Erhard M. Winkler, professor emeritus of civil engineering and geological sciences, gave the invited talk "The Use of Dimension Stone in External Cladding" at the international symposium on the Weathering of Marble in Carrara, Italy, May 24.

## Deaths

Gerhart Niemeyer, professor emeritus of government and international studies, June 23. Niemeyer studied political science at Cambridge University in England and the German Universities of Munich and Kiel, from which he received a law degree in 1932 before leaving Germany during the early years of Hitler's regime. He lived for a time in Spain, and then emigrated to the United States, where he joined the faculty of Princeton University in 1937. In 1941 he published a widely praised book, *Law Without Force*, which rapidly became required reading for students of international law. The U.S. State Department appointed Niemeyer to the planning staff of its Bureau of United Nations Affairs in 1950, and after three years in that post, he became an analyst for the Council on Foreign Relations. He joined the Notre Dame faculty in 1955. At Notre Dame Niemeyer taught introductory courses on political theory as well as two popular courses, "Modern Political Ideologies," and "The Reconstruction of Political Theory." He also wrote numerous articles in scholarly and popular journals on a variety of topics including cultural history, the New Left, education, and the writings of Eric Voeglin and Alexander Solzhenitsyn.

Ernest Sandeen, professor emeritus of English, July 12. Sandeen was graduated from Knox College in 1931, won a fellowship to Oxford University and received a B.Litt. degree from there two years later. He taught at Knox College and at the University of Iowa, where he received a doctoral degree in English in 1940, with a dissertation on Ralph Waldo Emerson. He served in the U.S. Navy during World War II and, in 1946, joined the faculty of Notre Dame, where he remained for the next 50 years, leaving only to travel to the University of Aarhus in Denmark as a Fulbright fellow in 1957. Sandeen chaired the Department of English from 1965 to 1968 and received the annual Faculty Award in 1972 and the Sheedy Award in 1976. Sandeen's poems appeared in a wide variety of periodicals including *Poetry*, the *New Yorker*, *Commonweal*, *Sewanee Review*, *The Nation* and the *Saturday Review*, and he published several volumes of them, including *Antennas of Silence*, *Children and Older Strangers*, *Collected Poems 1953-1977*, *Like Any Road Anywhere*, *A Later Day*, *Another Year*, and, most recently, *Can These Bones Live?*

# ADMINISTRATORS' NOTES

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## Activities

Scott Siler, manager of technical support for the Office of Information Technologies, was the program chair and led a panel discussion titled "You Mean They NEED Help?" at the 1997 ResNet Symposium held at Wellesley College in Wellesley, Mass., June 21-25.

## Publications

Alan S. Bigger, director of building services, and Linda B. Bigger, assistant director of purchasing, wrote "The Rules of Recycling" published in the June 1997 issue of *Maintenance Solutions*. They wrote "How Not to Create a Big Stink or, The Sweet Smell of Success" published in the July 1997 issue of *Executive Housekeeping Today*.

## Spring 1997 Faculty

The following faculty members joined the faculty in the spring 1997 semester and were not included in the faculty listing in *Notre Dame Report* #4.

ERIC BREITBART, *Visiting Instructor in Communication and Theatre*. B.A., Columbia Univ., 1961.

PATRICIA MEI YIN CHANG, *Assistant Professor of Sociology*. B.A., Univ. of California, Berkeley, 1982; M.A., Stanford Univ., 1987; Ph.D., *ibid.*, 1993.

ISIDORO CHERESKY, *Visiting Fellow in the Helen Kellogg Institute for International Studies*. Licenciatura, Univ. of Buenos Aires, 1971; D.E.A., Etuoles en Sciences, 1974; Ph.D., Univ. de Toulouse, 1989.

NIKOS CHRISOCHOIDES, *Assistant Professor of Computer Science and Engineering*. B.Sc., Aristotle Univ. of Thessaloniki, Greece, 1984; M.Sc., Purdue Univ., 1987; Ph.D., *ibid.*, 1992.

FRANCIS T. LUONGO, *Visiting Assistant Professor of History*. B.A., Columbia Univ., 1986; M.A., Univ. of Toronto, 1988.

MARIANO TORCAL, *Visiting Fellow in the Helen Kellogg Institute for International Studies*. B.A., Univ. Complutense de Madrid, 1986; B.A., *ibid.*, 1988; M.A., *ibid.*, 1989; M.A., Ohio State Univ., 1993; Ph.D., Univ. Autonoma de Madrid, 1995.

KEVIN M. WHELAN, *Visiting Professor of History*. B.A., Univ. College of Dublin, 1978; Ph.D., National Univ. of Ireland, 1981.



# THE GRADUATE SCHOOL OFFICE OF RESEARCH

## Current Publications and Other Scholarly Works

### COLLEGE OF ARTS AND LETTERS

#### Economics

Dutt, Amitava K.

A.K. Dutt. 1997. Joan Robinson. In *Encyclopedia of Keynesian Economics*, ed. T. Cate, 554-557. Aldershot, U.K.: Edward Elgar.

A.K. Dutt. 1997. The Relevance of Keynesian Policies in Semi-industrialized Countries: Theoretical Considerations and an Empirical Illustration. In *The Relevance of Keynesian Economic Policies Today*, eds. P. Arestis and M. Sawyer, 163-185. London and New York: MacMillan and St. Martin's Press.

#### Government and International Studies

Dowty, Alan

A. Dowty and G.D. Loescher. 1997. Refugee Flows as Grounds for International Action. In *Nationalism and Ethnic Conflict*, eds. M.E. Brown, O.R. Coté, S.M. Lynn-Jones and S.E. Miller, 305-333. Cambridge, Mass.: MIT Press.

A. Dowty. 1997. Review of *Cornerstones of Peace: Jewish Identity Politics and Democratic Theory*, by M. Brettschneider. *Political Science Quarterly* 112 (Spring): 166-168.

Loescher, Gilbert D.

See under Dowty, Alan. 1997. *Nationalism and Ethnic Conflict*, 305-333.

#### History

Gleason, J. Philip

J.P. Gleason. 1997. Catholic Higher Education as Context for Theological Education. In *Theological Education in the Catholic Tradition: Contemporary Challenges*, eds. P.W. Carey and E.C. Muller, S.J., 23-33. New York, N.Y.: Crossroad Publishing Co.

Miscamble, Rev. Wilson D., C.S.C.

J.F. Marszalek and W.D. Miscamble, C.S.C., eds. 1997. *American Political History: Essays on the State of the Discipline*. Notre Dame and London: University of Notre Dame Press, ix + 187 pp.

W.D. Miscamble, C.S.C. 1997. Review of *A Century's Ending: Reflections, 1982-1995*. *The Journal of American History* 83 (March): 1512-1513.

W.D. Miscamble, C.S.C. 1997. Review of *Fulbright: A Biography*, by R.B. Woods. *The American Historical Review* 102 (February): 215-216.

W.D. Miscamble, C.S.C. 1997. Review of *Not Without Honor: The History of American Anticommunism*, by R.G. Powers. *Review of Politics* 59 (Winter): 175-178.

W.D. Miscamble, C.S.C. 1997. Vincent P. DeSantis: Political Historian. In *American Political History: Essays on the State of the Discipline*, eds. J.F. Marszalek and W.D. Miscamble, 153-167. Notre Dame and London: University of Notre Dame Press.

#### Philosophy

McInerny, Ralph

R. McInerny (as M. Quill). 1997. *Half Past Nun*. New York: St. Martin's Press. 182 pp.

R. McInerny. 1997. Hole in Two. *Ellery Queen Mystery Magazine* August:32-43.

R. McInerny. 1997. Willa Cather and the Absence of "Authorial Otherness." *National Catholic Register* 73 (17): 7.

### COLLEGE OF SCIENCE

#### Biological Sciences

Kulpa, Charles F.

S. Selvaratnam, B.A. Schoedel, B.L. McFarland and C.F. Kulpa. 1997. Application of the Polymerase Chain Reaction (PCR) and Reverse Transcriptase/PCR for Determining the Fate of Phenol-degrading *Pseudomonas putida* ATCC 11172 in a Bioaugmented Sequencing Batch Reactor. *Applied Microbiology Biotechnology* 47:236-240.

#### Chemistry and Biochemistry

Basu, Manju

M. Basu, M. Girzadas, Sara Dastgheib, J. Baker, F. Rossi, N.S. Radin and S. Basu. 1997. Ceramide Glycanase from Rat Mammary Tissues: Inhibition by PPMP (D-/L-) and its Probable Role in Signal Transduction. *Indian Journal of Biochemistry and Biophysics* 34 (February and April): 142-149.

S.S. Basu, M. Basu, S. Dastgheib, S. Ghosh and S. Basu. 1997. Cloning and Expression of SAT-3 Involved in SA-Le<sup>x</sup> Biosynthesis: Inhibition Studies with Polyclonal Antibody Against GST-SAT-3 Fusion Protein. *Indian Journal of Biochemistry and Biophysics* 34 (February and April): 97-104.

Basu, Subhash

See under Basu, Manju. 1997. *Indian Journal of Biochemistry and Biophysics* 34:142-149.

See under Basu, Manju. 1997. *Indian Journal of Biochemistry and Biophysics* 34:97-104.

Castellino, Francis J.

J-P. Geng and F.J. Castellino. 1997. Properties of a Recombinant Chimeric Protein in which the gamma-Carboxyglutamic Acid and Helical Stack Domains of Human Anticoagulant Protein C are Replaced by those of Human Coagulation Factor VII. *Thrombosis and Haemostasis* 77:926-933.

# THE GRADUATE SCHOOL OFFICE OF RESEARCH

## Nowak, Thomas

- A.D. Mesecar and T. Nowak. 1997. Metal-Ion-Mediated Allosteric Triggering of Yeast Pyruvate Kinase. 1. A Multidimensional Kinetic Linked-Function Analysis. *Biochemistry* 36 (22): 6792-6802.
- A.D. Mesecar and T. Nowak. 1997. Metal-Ion-Mediated Allosteric Triggering of Yeast Pyruvate Kinase. 2. A Multidimensional Kinetic Linked-Function Analysis. *Biochemistry* 36 (22): 6803-6813.

## Weist, Olaf

- O. Weist. 1997. Ab Initio Studies of the Ring-Opening Reaction of the Cyclobutene Radical Cation. *Journal of American Chemical Society* 119:5713-5719.

## Mathematics

## Joachim Rosenthal,

- U. Helmke, J. Rosenthal and J.M. Schumacher. 1997. A Controllability Test for General First-order Representations. *Automatica* 33:193-201

## Physics

## Barabási, Albert-Laszlo

- I. Daruka and A-L. Barabási. 1997. Island Formation and Critical Thickness in Heteroepitaxy. *Physical Review Letters* 78 (15): 3027.
- A-L. Barabási. 1997. Self-assembled Island Formation in Heteroepitaxial Growth. *Applied Physics Letters* 70 (19): 2565-2567.

## Mathews, Grant J.

- G.J. Mathews and J.R. Wilson. 1997. Binary Induced Neutron Star Compression, Heating and Collapse. *Astrophysical Journal* 482:929-941.

## Rettig, Terrence

- N. Dello Russo, M.J. Mumma, M.A. DiSanti, K. Magee-Sauer and T. Rettig. 1997. Discovery of Infrared Emission from OSC and CN in C/1995 01 (Comet Hale-Bopp) using the NASA Infrared Telescope. In *International Astronomical Union 6682:2*. Cambridge, Mass.: Smithsonian Astrophysical Observatory Publications.

## Schiffer, Peter

- A.P. Ramirez, S-W. Cheong and P. Schiffer. 1997. Colossal Magnetoresistance and Charge Order in  $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$ . *Journal of Applied Physics* 81 (8): 5337-5340.

## Wilson, James R.

- See under Mathews, Grant J. 1997. *Astrophysical Journal*.

## COLLEGE OF ENGINEERING

### Aerospace and Mechanical Engineering

## Paolucci, Samuel

- S.A. Suslov and S. Paolucci. 1997. Nonlinear Analysis of Convection Flow in a Tall Vertical Enclosure Under non-Boussinesq Conditions. *Journal of Fluid Mechanics* 344:1-41.

## Chemical Engineering

## Strieder, William C.

- M. Mallni, W.C. Strieder and A. Varma. 1997. Spatiotemporal Evolution of Conversion and Selectivity for Simultaneous Noncatalytic Gas-Solid Reactions in a Compact of Particles. *Industrial and Engineering Chemistry Research* 36:1470-1479.

## Varma, Arvind

- See under Strieder, William C. *Industrial and Engineering Chemistry Research* 36:1470-1479.

## Computer Science and Engineering

## Chen, Danny Z.

- O. Aichholzer, F. Aurenhammer, D.T. Lee, D.Z. Chen, A. Mukhopadhyay and E. Papadopoulou. 1997. Voronoi Diagrams for Direction-Sensitive Distances. In *Proceedings, 13th Annual ACM Symposium on Computational Geometry*, Nice, France, 418-420.

## Electrical Engineering

## Michel, Anthony N.

- A.N. Michel and L. Hou. 1997. Modeling and Qualitative Theory for General Hybrid Dynamical and Control Systems. In *Proceedings, IFAC Conference on the Control of Industrial Systems*, Belfort, France, 173-183.

## LAW SCHOOL

## Gurulé, Jimmy

- J. Gurulé. 1997. *1997 Supplement. Complex Criminal Litigation: Prosecuting Drug Enterprises and Organized Crime*. Michie. 150 pp.

## Center for Civil and Human Rights

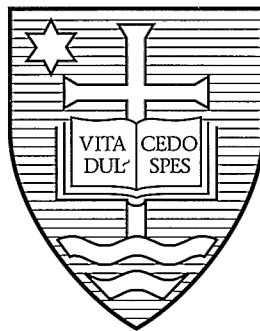
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