

NOTRE DAME REPORT

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SEPTEMBER 17, 1993 • NUMBER 2

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President's Address to the Faculty

Rev. Edward A. Malloy, C.S.C., president of the University of Notre Dame, will deliver an address to the faculty on Tuesday, October 12, at 4:30 p.m., in 101 DeBartolo. The talk will be followed by a reception in the DeBartolo quadrangle or the Center for Continuing Education, depending on weather conditions.

Library Receives Microfilm Reproductions from Hibernians

The Hesburgh Library has received microfilm reproductions of two membership publications of the Ancient Order of Hibernians, the oldest and largest Irish-American fraternal organization in the United States.

A microfilm reel containing reproductions of 5,084 pages from 439 issues of "The National Hibernian" and "The National Hibernian Digest" were presented to University officials by the organization's national president, George J. Clough Jr., and its national historian, John Concannon, Sept. 16.

The reproductions span the period from January 1915 to August 1993 and represent 79 years of the Irish-Catholic organization's 157-year history in America.

The Ancient Order of Hibernians has provided funds for the endowment of the Cushwa Center for the Study of American Catholicism and for a scholarship fund which currently provides partial scholarship assistance to 10 Notre Dame undergraduate students.

Four New Committees Formed

Acting on recommendations in the final report of the Colloquy for the Year 2000, Rev. Edward A. Malloy, C.S.C., has announced the formation of four new University committees — on curriculum; international studies; research, scholarship and infrastructure; and libraries.

Three of the four committees will be composed of 25 students, faculty and staff members and will issue final recommendations to the provost and Academic Council by the end of the 1993-94 academic year. The Committee on Research, Scholarship and Infrastructure will have 20 faculty, staff and student members and will issue its preliminary recommendations by the end of this year.

The majority of the members of each committee will be chosen by their respective constituencies.

Malloy has appointed these committee chairs: Timothy O'Meara, provost, University Curriculum Committee; Isabel Charles, associate provost and director of international programs, Committee on International Studies; Nathan Hatch, vice president for graduate studies and research, Committee on Research, Scholarship and Infrastructure; and Roger Schmitz, vice president and associate provost, Committee on University Libraries.

The Colloquy recommendations pertinent to the new committees are Recommendations 9, 16, 20 and 21.

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Honors

Charles B. Alcock, Freimann professor of electrical engineering and director of the Center for Sensor Materials, is being honored at a symposium held to celebrate his birthday and illustrious 40-year career under the chairmanship of Professor B.C.H. Steele at Imperial College, London. The symposium is titled "High Temperature Materials Chemistry" and will be held in London, England, Oct. 28-29.

Paul F. Bradshaw, professor of theology, was elected president of *Societas Liturgica* for 1993-95.

Lawrence S. Cunningham, chair and professor of theology, was elected as a substitute member for the Council of the Conference of Catholic Theological Faculties in Bogota, Colombia, Aug. 6.

Biswajit Das, assistant professor of electrical engineering, received honorable mention in the 1992-93 B.F. Goodrich Collegiate Inventors Program for his research developing porous silicon light-emitting diodes.

Stephen Fredman, professor of English, was appointed to the editorial board of *Sagetrieb: A Journal Devoted to Poets in the Imagist/Objectivist Tradition*.

Yih-Fang Huang, professor of electrical engineering, received the Toshiba Fellowship and was Toshiba Visiting Professor in the Department of Electrical Engineering at Waseda University in Tokyo, Japan, for the 1993 spring semester. He serves on the Technical Program Committee for the 1993 IEEE international symposium on Circuits and Systems.

Anthony N. Michel, McCloskey dean and Freimann professor of engineering, has been appointed to the editorial board of *Neurocomputing* an international journal published by the Elsevier Science Publishers in Amsterdam, the Netherlands.

Frank K. Reilly, Hank professor of business administration, was elected to a three-year term to the board of governors of the Association of Investment Management and Research, the parent association of both the Institute of Chartered Financial Analysts and the Financial Analysts Federation. He was elected president of the Midwest Finance Association for the 1993-94 year. Reilly was appointed to the board of regents of the Financial Analysts Seminar that is sponsored by the Association of Investment Management and Research and held at Northwestern University.

Mark R. Schurr, visiting assistant professor of anthropology, was reappointed to serve a three-year term on the Indiana Native American Council, the members of the council are appointed by the Governor of Indiana to advise the Indiana Department of Natural Resources on issues of interest to native Americans.

Billie F. Spencer Jr., associate professor of civil engineering and geological sciences, has been named the first recipient of the International Association for Structural Safety and Reliability Junior Research Prize in the area of Stochastic Fatigue, Fracture and Damage Analysis for his contributions to Stochastic Modeling of Fatigue Crack Propagation. The prize will be subsequently presented every four years to a researcher under 40 years of age for his or her contributions to the field. The award, consisting of a bronze medallion and a certificate, was presented at the international conference on Structural Safety and Reliability held in Innsbruck, Austria, Aug. 10-13.

Activities

Harvey A. Bender, professor of biological sciences, presented the annual fellows lecture "The Telltale Gene" at the 69th annual meeting of the Society for Values in Higher Education at Bowdoin College in Brunswick, Maine, Aug. 10-15.

Sunny K. Boyd, assistant professor of biological sciences, presented the paper "Gonadal Steroid Modulation of Vasotocin Concentrations in the Amphibian Brain" at the international conference on Hormones, Brain and Behavior in Tours, France, Aug. 20-28.

Ziyi Danny Chen, assistant professor of computer science and engineering, gave the invited talk "Shortest Path Problems on Internal and Circular-Arc Graphs" in the Department of Computer Science at the University of Waterloo in Canada, Aug. 4. He presented the paper "On Parallel Rectilinear Obstacle - Avoiding Paths" at the fifth Canadian conference on Computational Geometry in Waterloo, Canada, Aug. 6.

Lawrence S. Cunningham, chair and professor of theology, presented the Hesburgh lecture "Dropping Out of the Church" to the Notre Dame Club of San Jose, Calif., at Santa Clara University in Santa Clara, Calif., April 16. He presented "The Catechism of the Catholic Church" to the Alumni Reunion Seminar at the University of Notre Dame, Notre Dame, Ind., June 4. He gave three lectures titled "The Christian Life as a Way" to priests of the Diocese of LaCrosse, Wis., June 6-7. Cunningham presented "Critical Reflections on *Frontiers of Hispanic Theology* in the United States" at the

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Catholic Theological Society of America in San Antonio, Tex., June 11. He presented "On the Social Role of Notre Dame's Theology Department" at the Conference of Catholic Theological Faculties in Bogota, Colombia, Aug. 2-6.

Biswajit Das, assistant professor of electrical engineering, presented a seminar titled "Novel Properties and Applications of Back-gated GaAs/AlGaAs Modulation Doped Heterostructures" to the Department of Electrical and Computer Engineering at the University of California, San Diego, in LaJolla, Calif., June 28. He presented a seminar titled "Porous Silicon: Its Properties and Applications" to the Department of Electrical and Computer Engineering at the University of California in Irvine, Calif., June 30.

Sr. Elaine DesRosiers, O.P., professional specialist and director of Educational Media, gave a slide/video lecture titled "Vietnam Today" at the National Assembly of Pax Christi USA at Saint Mary's College in Notre Dame, Ind., Aug. 7. She chaired a jury to select preliminary winners of the Gabriels, an award given for outstanding television programs by UNDA, the Association of Catholic Communicators in Notre Dame, Ind., Aug. 9.

Leonid Faybusovich, assistant professor of mathematics, gave a talk titled "Dikin's Algorithm for Matrix Linear Programming Problems" at the 16th IFIP conference on System Modeling and Optimization in Compiègne, France, July 8. He gave the talk "Hamiltonian Structure of Generalized Affine-scaling Vector Fields" at Geometric and Computational Methods in Mechanics in Obezwolfach, Germany, July 28. He served as chair of the invited session "Geometric Methods in Numerical Analysis" and presented the talk "On the Rutishauser's Approach to Eigenvalue Problems" at Mathematical Theory of Networks and Systems in Regensburg, Germany, Aug. 2-6. He gave the talk "Decoding Goppa Codes Via Rutishauser's Algorithm" at the meeting titled "Mathematics and Computation" in Vancouver, Canada, Aug. 8-14. He presented the talk "Isospectral Flows in Linear Programming" at the SIAM Conference "Linear Algebra in Control and Signal Processing" in Seattle, Wash., Aug. 15-19.

Stephen Fredman, professor of English, presented "Call Him Charles': Reznikoff as Jewish-American Poet" at a conference titled "The First Postmodernists: American Poets of the 1930s Generation" sponsored by the National Poetry Foundation at the University of Maine in Orono, Maine, June 18.

Mohamed Gad-el-Hak, professor of aerospace and mechanical engineering, gave two invited lectures titled "Reynolds Number Effects in Wall-Bounded Turbulent Flows" and "The Gas-Core Configurations of a Cyclone-Type Gas-Liquid Separator" at the Naval Undersea Warfare Center in Newport, R.I., Aug. 12.

Jean-Francois Gaillard, assistant professor of civil engineering and geological sciences, presented "Early Diagenesis in Canadian Shield Lakes" and chaired a session on Global Biogeochemical Cycles at the third international symposium on Geochemistry of the Earth Surfaces at Penn State in University Park, Pa., Aug. 1-6.

Denis Goulet, O'Neill professor in education for justice, economics, presented a paper titled "International Ethics and Human Rights" to the seminar on "Global Changes and Public Administration" sponsored by Ecole Nationale de l'Administration Publique at the Universite du Quebec in Pointe du Lac, Quebec, Canada, Aug. 15-20. He delivered a paper titled "Authentic Development: Is It Sustainable?" at the conference on "Sustainable Development, Reformed Faith, and International Economic Policy" which was sponsored by the National Presbyterian Task Force on Sustainable Development at Ghost Ranch, Abiquiu, N.M., Aug. 23-30.

Alexander J. Hahn, professor of mathematics, as visiting professor of mathematics at the University of Innsbruck, gave a lecture titled "Quadratic Algebras and Quadratic Forms" for the algebra seminar at the ETH Zürich, Switzerland, June 22. He lectured on "New Results on the Arithmetic of Quadratic Forms" at the Universita Catolica in Brescia, Italy, July 9.

Eugene W. Henry, professor of computer science and engineering and professor of electrical engineering, presented an invited paper, co-authored with John J. Uhran Jr., associate chair and professor of computer science and engineering and professor of electrical engineering, titled "Integration of Electronic Design Automation Tools into the Computer Engineering Curriculum" at the 36th Midwest symposium on Circuits and Systems in Detroit, Mich., Aug. 15-18.

Yih-Fang Huang, professor of electrical engineering, gave an invited presentation titled "Some Applications of Bounded Error Parameter Estimation in Image Compression" and a paper titled "A Robust Method for Wideband Signal Separation" at the IEEE international symposium on Circuits and Systems in Chicago, Ill., May 3-6.

Lloyd H. Ketchum Jr., associate professor of civil engineering and geological sciences, presented "Septic Tank Systems and Lake Water Quality" at the Eagle Lake Improvement Association public information meeting in Edwardsburg, Mich., Aug. 17.

Charles F. Kulpa Jr., professor of biological sciences, organized a symposium titled "Applications of Microbiology in the Chemical Petroleum and Mining Industries" and gave the invited talk titled "Microbial Deactivation of the Preg-robbing Activity of Gold-bearing Ore" at the joint Society of Industrial Microbiology/Canadian Society of Microbiology meetings in Toronto, Canada, Aug. 1-6. He presented a pa-

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per titled "Microbial Deactivation of the Preg-robbing Activity of Gold-bearing Ore" and co-chaired a session on Microbial Genetics of Iron Oxidation at the International Biohydro-metallurgy meeting in Jackson, Wyo., Aug. 21-28.

Kenneth R. Lauer, professor of civil engineering and geological sciences, presented the introductory report titled "Services Life-damage Classification, Durability and Serviceability" for Session 1 of the RILFM international conference "Failure of Concrete Structures" held in Stroske Pleso, Slovakia, June 14-18.

Scott Mainwaring, professor of government and international studies, gave a presentation on "The Institutionalization of Party Systems in Latin America" at CEBRAP in Sao Paulo, Brazil, Aug. 13.

Anthony N. Michel, McCloskey dean and Freimann professor of engineering, gave a plenary talk titled "Analysis and Synthesis Methods of Artificial Neural Networks for Associative Memories" at the 1993 Midwest symposium on Circuits and Systems in Detroit, Mich., Aug. 16-18. Michel presented with Derong Liu and Kaining Wang the papers titled "Stability of Dynamical Systems Determined by Differential Inequalities with Applications to Nonlinear Circuits" and "Robustness Analysis of a Class of Neural Networks" at that symposium.

Mark C. Pilkinton, professor of communication and theatre, chaired a panel on "Religious Tradition in Japanese Theatre" at the Association for Theatre in Higher Education national conference in Philadelphia, Pa., Aug. 4-8.

John Poirier, professor of physics, gave three talks at the International Cosmic Ray Conference in Calgary, Canada. The talks were: "Survey for Stellar Sources Using Identified Single Muons at Sea Level," July 21; and "A New Candidate for a Long-lived Neutral Particle at VHE-UHE from Stellar Sources," and "Production and Transmission of a Possible New Long-lived Neutral Particle at VHE/UHE from Stellar Sources," July 29. He gave a talk titled "A New Method to Measure Cosmic Ray Isotopic Composition above 10^{14} eV" at a workshop on the Study of Cosmic Ray Interactions with New Extensive Air Shower Arrays held in Calgary, Canada, July 29.

Ken D. Sauer, assistant professor of electrical engineering, and **James Sachs Jr.**, graduate student in electrical engineering, presented the invited paper "Object-Oriented Methods in Bayesian 3-D Tomographic Reconstruction from Radiographs" at the 36th Midwest symposium on Circuits and Systems in Detroit, Mich., Aug. 16-18.

Maurice E. Schwartz, associate professor of chemistry and biochemistry, presented a paper on "Carlo Matteucci: A Modern Scientist of 19th Century Italy" to the History of Chemistry Division at the national meeting of the American Chemical Society in Chicago, Ill., Aug. 23.

Billie F. Spencer Jr., associate professor of civil engineering and geological sciences, served as the recorder for the Working Group on Analytical Methods and presented a paper titled "Protective System Design: The Role of Control-Structure Interaction" at the NSF supported "International Workshop on Structural Control Research" held in Honolulu, Hawaii, Aug. 5-7. He chaired sessions titled "Structural Control I," "Structure Control II" and "Fatigue II" and presented a paper titled "Reliability Based Measures of Stability for Actively Controlled Structures" at the international conference on Structural Safety and Reliability held in Innsbruck, Austria, Aug. 10-13.

Dariusz M. Wilczynski, assistant professor of mathematics, gave the invited talk "On the Least Genus of a Topologically Locally Flatly Embedded Surface in a Four-manifold" at the 1993 Georgia International Topology Conference in Athens, Ga., Aug. 5.

Samir Younés, assistant professor of architecture, delivered the invited lecture "Architecture, Myth and Memory" to the George Washington Memorial Foundation in Alexandria, Va., July 22. He presented an architectural proposal for the "Blue Lodge Room" at the George Washington National Masonic Memorial as part of an architectural competition, July 22. The proposal was selected as the winning scheme.

DOCUMENTATION

University Libraries' Regular Hours Academic Year 1993-94

Hesburgh Library

	Building	Public Services
Monday - Thursday	7:30 a.m. - 2 a.m.	8 a.m. - midnight
Friday	7:30 a.m. - 2 a.m.	8 a.m. - 10 p.m.
Saturday	9:00 a.m. - 2 a.m.	9 a.m. - 10 p.m.
Sunday	10 a.m. - 2 a.m.	1 p.m. - midnight

Branch hours vary, please call library for specific hours:

Architecture	631-6654
Chem Physics	631-7203
Engineering	631-6665
Life Science	631-7209
Math	631-7278

CHECK UNLOC (EXP HOURS) FOR ADDITIONAL CHANGES AND UPDATES

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

Anthropology

- Murphy, Martin F.
M.F. Murphy. 1993. Review of Capitalism in Colonial Puerto Rico: Central San Vicente in the Late Nineteenth Century, by T. Martínez-Vergne. *Hispanic American Historical Review* 73(2):320-321.

English

- Psomiades, Kathy A.
K.A. Psomiades. 1992. Beauty's Body: Gender Ideology and British Aestheticism. *Victorian Studies* 36(1):31-52.

Government and International Studies

- Leege, David C.
D.C. Leege and L.A. Kellstedt. 1993. Rediscovering the Religious Factor in American Politics. M.E. Sharpe, Armonk, New York. 319 + 8 pp.

Romance Languages and Literatures

- Douthwaite, Julia V.
J.V. Douthwaite. 1992. The Uses of History in Tocqueville's *Souvenirs* and Flaubert's *L'Education Sentimentale*. *Romance Languages Annual* 4:40-46.

Philosophy

- Kourany, Janet A.
J.A. Kourany. 1993. Professional Harassment: A Case Study. *American Philosophical Association Newsletter on Feminism and Philosophy*.
J.A. Kourany. 1993. Towards a Female-Friendly Philosophy of Science. *Philosophy of Science Association* 1993 2:178-192.
Sterba, James P.
J.P. Sterba. 1993. Feminist Justice in What Used to be Called the Soviet Union. Pages 78-93 in, W. Gay, ed., *On the Eve of the 21st Century: Perspectives of Russian and American Philosophers*. Roman and Littlefield.
J.P. Sterba. 1993. From Liberty to Welfare. Pages 405-413 in, S.J. Gold, ed., *Moral Controversies*. Wadsworth, Belmont, California.

- J.P. Sterba. 1993. *Morality in Practice*, 4th Edition. Wadsworth, Belmont, California. 520 pp.
J.P. Sterba. 1993. Reconciling Conceptions of Justice. Pages 223-238 in, M. Karlson, ed., *Law, Justice and the State*. Duncker & Humblot.
J.P. Sterba. 1993. The Strong Case for Preferential Treatment. Pages 286-291 in, S. Cahn, ed., *Affirmative Action and the University*. Temple University Press.
J.P. Sterba. 1993. Violence Against Nature. Pages 450-463 in, C. Peden, ed., *Social Philosophy Today*, Volume 6. Mellon.
J.P. Sterba. 1992. How to Make People Moral. Pages 375-381 in, *Proceedings of the International Society for Philosophy of Law and Social Philosophy*. Duncker & Humblot.
J.P. Sterba. 1992. Practical Reconciliation Reaffirmed: A Reply to Peffer. *Journal of Social Philosophy* (1992):189-201.

Psychology

- Borkowski, John G.
J.G. Borkowski, T.L. Whitman and C.J. Schellenbach. 1992. Adolescent Parenting: The Role of Readiness to Parent. Pages 211-215 in, *New Directions in Child and Family Research*. Shaping Head Start in the 90s. Department of Health and Human Services, Washington, D.C.
J.G. Borkowski, J.D. Day, D.S. Saenz, D. Dietmeyer, T. Estrada and A. Groteluschen. 1992. Expanding the Boundaries of Cognitive Interventions. Pages 1-21 in, B. Wong, ed., *Contemporary Intervention Research in Learning Disabilities*. Springer-Verlag, New York, New York.
O. Papetti, C. Cornoldi, A. Pettavino, G. Mazzone and J.G. Borkowski. 1992. Memory Judgments and Allocation of Study Times in Good and Poor Comprehenders. *Advances in Learning and Behavioral Disabilities* 7:3-33.
J.G. Borkowski. 1992. Metacognition Theory: A Framework for Teaching Literacy, Writing and Math Skills. *Journal of Learning Disabilities* 25:253-257.
J.G. Borkowski and N. Muthukrishna. 1992. Moving Metacognition into the Classroom: Working Models and Effective Strategy Teaching. Pages 477-501 in, M. Pressley, K.R. Harris and J.T. Guthrie, eds., *Promoting Academic Literacy: Cognitive Research and Instructional Innovation*. Academic Press, Orlando, Florida.
J.G. Borkowski, T.L. Whitman, A. Wurtz-Passino, E. Rellinger, K. Sommer, D. Keogh and K. Weed. 1992. Unraveling the New Morbidity: Adolescent Parenting and Developmental Delays. Pages 159-196 in, N. Bray, ed., *International Review of Research in Mental Retardation*, Volume 18. Academic Press, San Diego, California.

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- See under Day, Jeanne D. 1992. Pages 181-202 in, Children's Development within Social Contexts: Research and Methodology, Volume 2.
- See under Whitman, Thomas L. 1993. *Adolescence* 28:97-122.
- See under Whitman, Thomas L. 1993. *Developmental Psychology* 29:389-398.
- See under Whitman, Thomas L. 1992. *Human Development* 35:81-99.

Day, Jeanne D.

- J.D. Day, J.G. Borkowski, D. Dietmeyer, B.A. Howsepian and D.S. Saenz. 1992. Possible Selves and Academic Achievement. Pages 181-202 in, L. Winegar and J. Valsiner, eds., Children's Development within Social Contexts: Research and Methodology, Volume 2. Erlbaum, Hillsdale, New Jersey.

- See under Borkowski, John G. 1992. Pages 1-21 in, Contemporary Intervention Research in Learning Disabilities.

Maxwell, Scott E.

- See under Whitman, Thomas L. *Developmental Psychology* 29:389-398.

Whitman, Thomas L.

- K. Sommer, T.L. Whitman, J.G. Borkowski, C.J. Schellenbach, S.E. Maxwell and D. Keogh. 1993. Cognitive Readiness and Adolescent Parenting. *Developmental Psychology* 29:389-398.
- A. Passino, T.L. Whitman, J.G. Borkowski, C.J. Schellenbach, S. Maxwell, D. Keogh and L. Rellinger. 1993. Personal Adjustment During Pregnancy and Adolescent Parenting. *Adolescence* 28:97-122.
- C.J. Schellenbach, T.L. Whitman and J.G. Borkowski. 1992. Toward an Integrative Model of Adolescent Parenting. *Human Development* 35:81-99.
- See under Borkowski, John G. 1992. Pages 159-196 in, International Review of Research in Mental Retardation, Volume 18.
- See under Borkowski, John G. 1992. Pages 211-215 in, New Directions in Child and Family Research. Shaping Head Start in the 90s.

COLLEGE OF SCIENCE

Chemistry and Biochemistry

Freeman, Jeremiah P.

- S. Zhao, J.P. Freeman, C.G. Chidester, P.F. Von Voigtlander, S.A. Mizrak and J. Szmuszkovicz. 1993. Regioselective and Stereoselective Synthesis of 1,2,3-Triaminocyclohexane Derivatives. *Journal of Organic Chemistry* 58:4043-4048.

Miller, Marvin J.

- M.J. Stauber, T. Debiak-Krook and M.J. Miller. 1993. Alkylation of Ambident Nucleophilic Hydroxamates with 4-Substituted 2-Azetidinones: Formation of Bicyclic β -Lactam Intermediates. *Heterocycles* 35(2):1205-1235.

Mathematics

Sommese, Andrew J.

- M. Beltrametti and A.J. Sommese. 1993. Comparing the Classical and the Adjunction Theoretic Definition of Scrolls. A. Lanteri, M. Palleschi and D.C. Struppa, eds., Proceedings of the 1990 Cetraro Conference "Geometry of Complex Projective Varieties." Mediterranean Press, Rende, Italy.

Physics

Aprahamian, Ani

- See under Garg, Umesh. *Nuclear Physics A* 557:391c-400c.

Garg, Umesh

- J.R. Hughes, et al., Notre Dame (U. Garg and W. Reviol). 1993. Collective Oblate Bands in ^{196}Pb . *Physical Review C/Rapid Communications* 47(4):R1337-R1341.
- W. Reviol, U. Garg, I. Ahmad, A. Aprahamian, M.P. Carpenter, B.F. Davis, R.V.F. Janssens, T.L. Khoo, T. Lauritsen, Y. Liang, S. Naguleswaran, J.C. Walpe and D. Ye. 1993. Spectroscopy of $^{96,97,98}\text{Ru}$: Possible Emergence of Collectivity at $N \geq 52$. *Nuclear Physics A* 557:391c-400c.

Kolata, James J.

- D.D. Caussyn, N.R. Fletcher, K.W. Kemper, E.E. Towers, J.J. Kolata, K. Lamkin, R.J. Smith, F.D. Becchetti, J.A. Brown, J.W. Janecke, D.A. Roberts and D.L. Gay. 1993. Cross Section for the Primordial Reaction $^8\text{Li}(p,n)^8\text{Be}(g.s.)$ at $E_{c.m.}=1.5$ MeV. *Physical Review C* 47(1):387-391.
- D. Sackett, K. Ieki, A. Galonsky, C.A. Bertulani, H. Esbensen, J.J. Kruse, W.G. Lynch, D.J. Morrissey, N.A. Orr, B.M. Sherrill, H. Schulz, A. Sustich, J.A. Winger, F. Deák, Á. Horváth, Á. Kiss, Z. Seres, J.J. Kolata, R.E. Warner and D.L. Humphrey. 1993. Electromagnetic Excitation of ^{11}Li . *Physical Review C* 48(1):118-135.
- F.D. Becchetti, W.Z. Liu, K. Ashktorab, J.F. Bajema, J.A. Brown, J.W. Janecke, D.A. Roberts, J.J. Kolata, K.L. Lamkin, A. Morsad, R.J. Smith, X.J. Kong and R.E. Warner. 1993. Systematics of ^8Li -Induced Radioactive Beam Reactions: $E=13-20$ MeV. *Physical Review C* 48(1):308-318.
- J.J. Kolata. 1992. Basic Research with Low-Energy Accelerator Systems. *Revista Mexicana de Fisica* 38(5):739-752.

THE GRADUATE SCHOOL OFFICE OF RESEARCH

COLLEGE OF ENGINEERING

Aerospace and Mechanical Engineering

Huang, Nai-Chien

N.-C. Huang and Y.C. Li. 1993. Analysis of Interface Fracture in Laminated Composites. Pages 692-699 in, A. Miravete, ed., Ceramic Matrix Composites and Other Systems. Proceedings of the Ninth International Conference on Composite Materials. University of Zaragoza, Woodhead Publishing Limited, Madrid, Spain.

Nee, Victor W.

See under Yang, Kwang-tzu. 1993. *Journal of Energy, Heat and Mass Transfer* 15:1-19.

Yang, Kwang-tzu

W.L. Cooper, K.T. Yang and V.W. Nee. 1993. Fluid Mechanics of Oscillatory and Modulated Flows and Associated Applications in Heat and Mass Transfer - A Review. *Journal of Energy, Heat and Mass Transfer* 15:1-19.

Chemical Engineering

Brennecke, Joan F.

J.B. Ellington and J.F. Brennecke. 1993. Pressure Effect on the Esterification of Phthalic Anhydride in Supercritical CO₂. *Journal of the Chemical Society, Chemical Communications* 13:1094-1095.

Strieder, William C.

See under Varma, Arvind. 1993. *AIChE Journal* 39:913-917.

Varma, Arvind

G. Cao, A. Varma and W.C. Strieder. 1993. Approximate Solutions for Non-Linear Gas-Solid Noncatalytic Reactions. *AIChE Journal* 39:913-917.

A. Gavriilidis, A. Varma and M. Morbidelli. 1993. Optimal Distribution of Catalyst in Pellets. *Catalysis Reviews - Science and Engineering* 35:399-456.

R.G. Pigeon and A. Varma. 1993. Quantitative Kinetic Analysis of Silicon Nitridation. *Journal of Materials Science* 28:2999-3013.

Civil Engineering and Geological Sciences

Gaillard, Jean-Francois

C. Rabouille, P. Crassous, A. Kripounoff, J.-F. Gaillard, R. Jahnke, C. Pierre and J.-C. Relexans. 1993. A Model of Early Diagenesis in the Tropical North Atlantic: Processes and Mass Balances in the Sediments of the EUMELI Program. *Chemical Geology* 107:463-466.

J.-F. Gaillard. 1993. Early Diagenesis in Canadian Shield Lakes. *Chemical Geology* 107:453-456.

G. Sarazin, J.-F. Gaillard, L. Philippe and C. Rabouille. 1993. Organic Matter Mineralization and Nutrient Fluxes at the Sediment-Water Interface of a Eutrophic Lake (Aydat Lake, Puy de Dôme France). *Chemical Geology* 107:471-476.

Gray, William G.

S.M. Hassanizadeh and W.G. Gray. 1993. Toward an Improved Description of the Physics of Two-Phase Flow. *Advances in Water Resources* 16(1):53-67.

Electrical Engineering

Antsaklis, Panos J.

M.D. Lemmon, J.A. Stiver and P.J. Antsaklis. 1993. Learning to Coordinate Control Policies of Hybrid Systems. Pages 31-35 in, Proceedings of the 1993 American Control Conference, San Francisco, California.

P.J. Antsaklis and Z. Gao. 1993. Polynomial and Rational Matrix Interpolation: Theory and Control Applications. *International Journal of Control* 58(2):349-404.

P.J. Antsaklis and Z. Gao. 1993. Polynomial and Rational Matrix Interpolation: Systems and Control Applications. Pages 640-644 in, Proceedings of the 1993 American Control Conference, San Francisco, California.

J.A. Stiver and P.J. Antsaklis. 1993. State Space Partitioning for Hybrid Control Systems. Pages 2303-2304 in, Proceedings of the 1993 American Control Conference, San Francisco, California.

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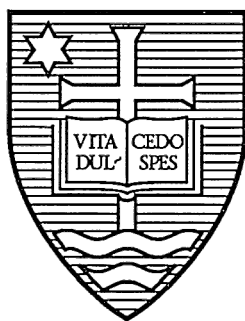
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