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### Coca-Cola Gives \$2 Million to Kellogg Institute

The Helen Kellogg Institute for International Studies has received a \$2 million gift from The Coca-Cola Company for a five-year program on Latin American public policy.

The centerpiece of the new program will be a series of televised forums on challenges confronting democracy and development in Latin America. These forums, to be held twice yearly at Notre Dame beginning next spring, will take up issues such as free trade, the environment, ethics, poverty, social policies, human rights, U.S. foreign policy, and the construction of democratic institutions.

Participants will be chosen from among the Notre Dame faculty, the hemisphere's political and business leaders, and prominent figures in education and public affairs. The discussions will be moderated by a prominent chairperson jointly invited by Notre Dame and The Coca-Cola Company. Videotapes based on forum themes will be produced for distribution to television networks, educational institutions and other interested organizations throughout the hemisphere.

The program will include the publication of a series of monographs generated by the forums. These will be distributed by Kellogg and The Coca-Cola Company to universities, research institutes, government administrators, business leaders, journalists and other policymakers.

The program will provide a total of 15 four-year graduate fellowships, three to be awarded each year of the program, for study at Notre Dame. The fellowships will be awarded to candidates from all sectors of Latin American society.

### President's Address to the Faculty

Father Edward A. Malloy, C.S.C., president, will deliver an address to the faculty on Tuesday, October 13, at 4:30 p.m. in the DeBartolo auditorium. The talk will be followed by a reception and blessing of the Sesquicentennial Pergola in the DeBartolo quadrangle.

### Food Service Awarded Grand Prize in Menu Contest

Notre Dame Food Services was awarded first place for large schools and grand prize for all schools for the Junior Parent's Weekend entry into the National Association of College and University Food Services menu contest. Awards were accepted by Peggy Williams, past senior catering manager, at the Association's National Conference in Cincinnati, Ohio, July 7-10.

### Notre Dame Magazine Wins Awards

Notre Dame Magazine has won first place for general excellence among general-interest magazines in the 1992 Catholic Press Association journalism awards competition. Runner-up was *Commonweal*. Notre Dame Magazine also won a gold medal for staff writing from the Council for Advancement and Support of Education. 

### Honors

Nadia M. Alhasani, assistant professor of architecture, received a \$5,000 grant from the Graham Foundation for the Advanced Studies in the Fine Arts to be used toward a future book on "The Architecture of Stairs."

Katharina J. Blackstead, associate librarian, has been reappointed chairperson of the Steering Committee of the Library Administration and Management Association's (LAMA) Public Relations Management Discussion Group for a one-year term. She has been appointed for a two-year term to LAMA's Public Relations Section's Education and Training Committee, and to the Funding Committee of the Area Library Services Authority, Region 2.

Francis J. Castellino, dean of science and Kleiderer-Pezold professor of biochemistry, has been appointed chairperson of the hematology study section in the division of research grants of the National Institutes of Health's Department of Health and Human Services.

Anthony N. Michel, McCloskey dean of engineering and Freimann professor of engineering, has been elected a Foreign Member of the Russian Academy of Engineering. His selection by the academy is particularly significant because Soviet and Russian engineers historically have been the world's foremost researchers in stability theory, which also is Michel's research specialty. This latest honor underscores Michel's international reputation in the field. The academy, formed in the Federation of Russia in the wake of the disintegration of the Soviet Union, is the new counterpart to the National Academy of Engineering in the United States.

Guillermo O'Donnell, Kellogg professor of government and international studies and academic director of the Kellogg Institute, has been appointed a member of the international board of the *Sociedad*, a social science journal published by the National University of Buenos Aires, Argentina.

Michael A. Signer, Abrams professor of Jewish thought and culture, received the Max W. Bay Award for Promoting Jewish-Christian Relations by the American Jewish Committee in Los Angeles, Calif.

Arvind Varma, Schmitt professor of chemical engineering, has been appointed a member of a newly-created Science Advisory Board for International Specialty Products in Wayne, N.J. The purpose of the board is to offer advice on issues related to research and development.

### Activities

Nadia M. Alhasani, assistant professor of architecture, received an educational grant (\$2,800) to attend the eighth Illuminating Engineering Society of North America summer workshop for Teachers of Lighting at the New England Center at the University of New Hampshire in Durham, N.H., July 12-24.

Ani Aprahamian, assistant professor of physics, presented an invited paper on "Vibration in Deformed Nuclei" at the sixth international conference on Nuclei Far from Stability and the ninth international conference on Atomic Masses and Fundamental Constants in Bernkastel-Kues, Germany, July 19-24. She presented an invited paper on "Nuclear Shapes and Vibrations of Deformed Nuclei" at the ACS Symposium on Nuclear Shapes in Washington, D.C., Aug. 24-28.

Supriyo Bandyopadhyay, associate professor of electrical engineering, presented a paper titled "Features of Quantum Magnetotransport and Electromigration in Mesoscopic Systems" authored by S. Chaudhuri, Biswajit Das, assistant professor of electrical engineering, and M. Cahay at the sixth international conference on Superlattices, Microstructures and Microdevices held at Xian, People's Republic of China, Aug. 4.

Joseph Blenkinsopp, O'Brien professor of theology, read a paper with the title "Did the Second Temple Possess Land?" at the International Society of Old Testament Studies Congress in Paris, France, July 19-25.

Kevin J. Christiano, associate professor of sociology, served as a discussant in the session on "Diversity in American Catholic Communities" and served as moderator of a panel on the work of E. Digby Baltzell at the annual meeting of the Association for the Sociology of Religion held in Pittsburgh, Pa., Aug. 18-20.

John Duman, professor of biological sciences, delivered an invited talk on "Thermal Hysteresis (Antifreeze) Proteins in Natural Systems" at the Cryobiology Society meeting at Cornell University in Ithaca, N.Y., June 14-29.

Leonid Faybusovich, assistant professor of mathematics, presented the talk "A New Interior-point Method of Linear Programming, Computation and Control III" in Bozeman, Mont., Aug. 5.

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## **Faculty Notes**

Malcolm J. Fraser Jr., associate professor of biological sciences, presented a poster titled "Development of a Transposition Assay for Lepidopteran Transposons Using a Baculovirus Genome as a Target" at the 1992 World Congress of Cell and Tissue Culture in Arlington, Va., June 18-26. He presented that same paper at the annual meeting of the American Society for Virology at Cornell University in Ithaca, N.Y., July 10-16.

Sonia G. Gernes, professor of English, lectured on "The Making of Metaphor" and "Character Building in Fiction Writing" at the Ozarks Writing Conference at the University of Arkansas in Fayetteville, Ark., Aug. 11-16. She gave a reading of her own poetry and fiction at that conference, Aug. 15.

Denis Goulet, O'Neill professor in education for justice, economics, presented a paper titled "Ethics and Politics in a Changing World: Striking a New Bargain" to the Seminaire D'ete Pour La Haute Direction sponsored by the Ecole Nationale d'Administration Publique of the University of Quebec held at Pointe-du-Lac, Canada, Aug. 21.

Bei Hu, assistant professor of mathematics, gave the talk "A Free Boundary Problem Arising in Superconductor Modeling" at the PDE mini conference at the Department of Mathematics at the University of Toronto in Toronto, Canada, July 31.

Nai-Chien Huang, professor of aerospace and mechanical engineering, gave a seminar titled "An Investigation of Hydraulic Fracturing" at the Institute of Applied Mechanics at the National Taiwan University in Taipei, Taiwan, July 29.

Marjorie Schreiber Kinsey, adjunct assistant professor in the arts and letters core course, gave the invited lecture "Radical and Conservative: The Mystical School of Lyon and its Relationships" on the occasion of the exhibition "The Real and the Spiritual: Nineteenth-Century French Drawings from the Musée des Beaux-Arts de Lyon" at the Frick Museum in Pittsburgh, Pa., June 17.

David C. Leege, professor of government and international studies and director of the Program for Research on Religion, Church, and Society, delivered a series of Chataquastyle lectures titled "Bibles and Ballots: The Significance of Religion in American Politics" at Camp Arcadia in Arcadia, Mich., Aug. 2-7.

A. Eugene Livingston, associate professor of physics, presented a seminar titled "Relativistic Effects in Fine Structure Energies and Transition Rates" at the University of Lund, Sweden, July 30. He presented a paper titled "New Results for the QED/Relativistic Components in the Triplet State Energies of Helium-like Ions" at the international conference on Atomic Physics in Munich, Germany, Aug. 3-7. George A. Lopez, acting Regan director of the Kroc Institute and professor of government and international studies, served on the staff and taught a seminar on "Internationalizing the Campus and the Curriculum" of the Lilly Endowment's workshop on the Liberal Arts in Colorado Springs, Colo., June 13-28. He chaired the Selection Committee meetings of the Research and Writing Grants competition of the Program in Peace and International Cooperation of the John D. and Catherine T. MacArthur Foundation in Chicago, Ill., June 29-July 2.

Andrew Lumsdaine, assistant professor of computer science and engineering, presented the invited seminar "Dynamic Iteration Methods for Solving Initial-value Problems on Parallel Architectures" at the Army High-performance Computing Research Center in Minneapolis, Minn., July 7. He presented the paper "Waveform Iterative Techniques for Device Transient Simulation" at the IEEE PELS third workshop on computers in power electronics in Berkeley, Calif., Aug. 11.

Scott P. Mainwaring, associate professor of government and international studies, presented "The Current Crisis and Prospects for Political Reform in Brazil" at CEDEC in Sao Paulo, Brazil, Aug. 6.

Martin F. Murphy, associate professor of anthropology and fellow in the Kellogg Institute, gave the talk "Reflections on Present-Day Cuba: Neither Black Nor White" to the Downtown South Bend Rotary Club in South Bend, Ind., June 3. He presented a preliminary report of the study "Resident Hispanic Population in St. Joseph County: Demographics and Opinions" to the Hispanic TaskForce of South Bend and St. Joseph County in South Bend, Ind., Aug. 19.

Jerome H. Neyrey, professor of theology, gave the lecture series "Center for Development in Ministry" at the University of St. Mary of the Lake in Mundelein, Ill., June 21-24. He presented the paper "The Footwashing in John 13: Ritual or Ceremony?" to the Catholic Biblical Association at the Catholic University of America in Washington, D.C., Aug. 15-18.

Erskine Peters, professor of English, presented the paper "Langston Hughes: Rhythmic Manipulation and Instrument Simulation in *Montage of a Dream Deferred*" at the second annual Black Heartland Conference held at Washington University in St. Louis, Mo., March 19-22. He spoke about concepts in his recently published book *African Americans in the New Millennium: Blueprinting the Future* as the featured guest on the one-hour talk show "New Youth Perspectives" at WDTR in Detroit, Mich., June 1. "New Youth Perspectives" is produced by New Detroit, Inc. and is broadcast weekly over the radio station owned by the city's public school system.

### **Faculty Notes**

Mark C. Pilkinton, chairman and professor of communication and theatre, presented "Simultaneous Staging and the Cornish Cycle" and "Directing Ethics" at the Association for Theatre in Higher Education National Conference in Atlanta, Ga., Aug. 1-5.

Karamjit S. Rai, professor of biological sciences, was awarded a visiting professorship by the National Science Council of the Republic of China. He presented the following lectures during his visit to Taiwan and People's Republic of China from June 20-July 10: "Vector Competence of Aedes albopictus to Dengue Viruses" to the Department of Entomology at the University of Chungsing in Taichung, June 22; "Genetics of Aedes albopictus: Progress, Prospects and Future Directions" to the Department of Parasitology at the National Yangming Medical College in Taipei, June 23; "Genetics of Vector Competence of Aedes albopictus to Dengue" to the Department of Entomology at the National Taiwan University in Taipei, June 24; and "Genome Evolution in Mosquitoes" to the Institute of Genetics at the National Yangming Medical College in Taipei, June 26. He received travel awards from the Entomological Society of America and the International Congress of Entomology to attend the XIX International Congress of Entomology in Beijing, People's Republic of China, June 27-July 4. He presented a paper titled "Genetics of Vector Competence of Aedes albopictus to Dengue Virus" in the symposium he chaired titled "Mosquito Biology, Genetics, Vector Competence and Relationship to Disease Transmission," June 30. He gave a seminar titled "Aedes albopictus in the Old and the New Worlds" at the Institute of Parasitic Diseases in Chengdu, Sichuan, July 6.

Ken Sauer, assistant professor of electrical engineering, gave the invited lecture "Statistical Modeling and Optimization Techniques in Bayesian Tomographic Image Reconstruction" at the Centre d'Études Nucléaires in Grenoble, France, June 23. He presented the paper titled "Nonlinear Multigrid Methods of Optimization in Bayesian Tomographic Image Reconstruction" at the SPIE international symposium on Mathematical Imaging in San Diego, Calif., July 20-23.

William D. Shephard, professor of physics, presented a paper titled "Photoproduction of Charm" as an invited participant at the XXII international symposium on Multiparticle Dynamics in Santiago de Compostela, Spain, July 13-17.

J. Eric Smithburn, professor of law, served as coordinator for the 1992 National Judicial College Anglo-American Judicial Education Seminar, which was presented at Corpus Christi College, Cambridge University, and Notre Dame London Law Centre, England, July 26-Aug. 7. The seminar was attended by approximately 50 American appellate and state trial court judges, and featured presentations by distinguished members of the Cambridge University law faculty and members of the English Bench, Bar and Law Society. Donald E. Sporleder, professor of architecture, participated and led a discussion group series in the "Teaching and Practical Ethics Workshop" sponsored by The Hastings Center, N.Y., and the Poynter Center for the Study of Ethics and American Institutions, I.U., at Colorado College in Colorado Springs, Colo., July 26-31.

James P. Sterba, professor of philosophy and faculty fellow in the Institute for International Peace Studies, presented a paper titled "Practical Reconciliation Reaffirmed" in response to Rodney Peffer's "Sterba's Reconciliation Argument" at the Pacific Division American Philosophical Association Meeting in Portland, Oreg., March 23-26. Sterba was Fleishhacker Chair of Philosophy at the University of San Francisco, Calif., spring 1992. He presented his first Fleishhacker Chair of Philosophy lecture "Reconciling Libertarian and Feminist Conceptions of Justice," April 6, and his second Fleishhacker Chair of Philosophy lecture "Reconciling Pacifists and Just War Theorists," April 21. He presented a symposium paper "Reconciling Conceptions of Justice" and chaired a session on bioethics at the Central Division Meeting of the American Philosophy Association Meeting in Nashville, Tenn., April 28-May 1. Sterba presented the papers titled "Violence Against Nature" and "A Path of Universal Justice" at the World Congress on Violence and Human Coexistence in Montreal, Canada, July 12-17. He presented a paper titled "Reconciling Deep and Shallow Ecologists" at the ninth international conference for Social Philosophy held in Davidson, N.C., July 30-Aug. 2.

Arvind Varma, Schmitt professor of chemical engineering, presented two invited talks titled "Silver Membrane Reactors for Ethylene Epoxidation" and "Parametric Sensitivity and Runaway in Chemical Reactors" at the research division of Union Carbide Chemicals and Plastics Company in South Charleston, W.Va., Aug. 13.

James F. White, professor of theology, presented "Future Directions in Worship" to the Order of St. Luke in Whitehall, N.Y., June 8.

Dariusz M. Wilczynski, assistant professor of mathematics, gave the invited talk, "Representing Homology Classes by Locally Flat Surfaces" during the Topology Day at Yale University in New Haven, Conn., June 17.

Eduardo E. Wolf, professor of chemical engineering, presented a paper co-authored by K. Yeung on "STM Studies of Pd/Graphite Catalysts" at the VII Simposio Ibero Americano de Catalisis in Segovia, Spain, July 13-17. He presented a paper co-authored by Z. Kalenik on "Transient Isotopic Studies of the Role of Oxygen During the Oxaditave Coupling of Methane on Sr/La2O<sub>3</sub> and Ca/thO<sub>2</sub> Catalysts" at the 10th international congress on Catalysis in Budapest, Hungary, July 19-23.

### Appointments

Harry Storms is the assistant director of Building Services, effective August 17. He replaces Alan S. Bigger, who was promoted to director of Building Services. Storms has over 21 years of experience in the housekeeping and laundry profession in the health services and hospitality industries. His previous places of employment include St. Margaret/ Mercy Hospital in Hammond, Ind., and St. Anthony's Medical Center in Crown Point, Ind. Most recently he was with the Palmer House (Hilton) in Chicago, Ill. Storms has a Bachelor of Science in Business Management, and is a Registered Executive Housekeeper.

### Honors

Howard G. Adams, executive director of the National Consortium for Graduate Degrees for Minorities in Engineering and Science, has been invited to serve on the National Advisory Committee of the University of Michigan's College of Engineering for a three-year term.

Thomas J. Mason, vice president for business affairs, has been elected to a three-year term as a director of the National Association of College and University Business Officers. With 2,200 members, the association is American higher education's foremost organization of business and finance administrators.

### Activities

Michael Langthorne, associate director of Educational Media, presented the paper "Charting a Course from Mixed Media to Multimedia" which was published in the papers of the seventh Canadian symposium on Instructional Technology in Montreal, Canada, May 9. He was interviewed for the *Heller Report* on Media-On-Call technology in DeBartolo Hall and by *Video Technology News* regarding use of media and multimedia development for DeBartolo Hall.

Timothy Truesdell, director of development research, presented "Evaluating Electronic Screening Programs" at the national conference of the American Prospect Research Association held in Reston, Va., Aug. 19-21.

### Summary Annual Reports

### Health Plus HMO

This is a summary of the annual report for the Health Plus HMO, employer number 35-0868188, for the plan year January 1, 1991, through December 31, 1991. The annual report has been filed with the Internal Revenue Service as required under the Employee Retirement Income Security Act of 1974 (ERISA).

#### INSURANCE INFORMATION:

Health Plus HMO provides benefits for medical care as a Federally qualified Health Maintenance Organization. During the plan year ending December 31, 1991, the University and the employees choosing this optional health care coverage paid \$1,072,594.00 in premiums.

#### YOUR RIGHT TO ADDITIONAL INFORMATION:

You have the right to receive a copy of the full annual report or any part thereof, including insurance information, on request. To obtain a copy of the full annual report, or any part thereof, write or call the office of the plan administrator: Roger V. Mullins, Director, Department of Human Resources, University of Notre Dame, Notre Dame, Indiana 46556; (219) 239-5900.

Under the provisions of ERISA you have the right to receive from the plan administrator upon request, and at no charge, a statement of the assets and liabilities of the plan and accompanying notes. If you request a copy of the full annual report, these statements will be included with it.

You also have the legally protected right to examine the annual report at the main office of the plan which is the Department of Human Resources, Brownson Hall, University of Notre Dame, Notre Dame, Indiana 46556; and at the U.S. Department of Labor in Washington, D.C., or to obtain a copy from the U.S. Department of Labor upon payment of copying costs. Requests to the U.S. Department of Labor should be addressed to: Public Disclosure Room, N4677, Pension and Welfare Benefit Programs, Department of Labor, 200 Constitution Avenue, N.W., Washington, D.C. 20216.

### TIAA/CREF Tax Deferred Annuity

This is a summary of the annual report for the TIAA/CREF Tax Deferred Annuity Plan, employer number 35-0868188, for the plan year January 1, 1991, through December 31, 1991. The annual report has been filed with the Internal Revenue Service as required under the Employee Retirement Income Security Act of 1974 (ERISA).

#### BASIC FINANCIAL INFORMATION:

Benefits under the plan are provided by individually owned, fully vested annuity contracts issued by Teachers Insurance and Annuity Association and the College Retirement Equities Fund. The total payments paid for this plan year ending December 31, 1991, were \$1,746,120.14. A total of 499 persons were participants in or beneficiaries of the plan at the end of the plan year, although not all of these persons had yet earned the right to receive benefits.

#### YOUR RIGHT TO ADDITIONAL INFORMATION:

You have the right to receive a copy of the full annual report or any part thereof, including insurance information, on request. To obtain a copy of the full annual report, or any part thereof, write or call the office of the plan administrator: Roger V. Mullins, Director, Department of Human Resources, University of Notre Dame, Notre Dame, Indiana 46556; (219) 239-5900.

Under the provisions of ERISA you have the right to receive from the plan administrator upon request, and at no charge, a statement of the assets and liabilities of the plan and accompanying notes. If you request a copy of the full annual report, these statements will be included with it.

You also have the legally protected right to examine the annual report at the main office of the plan which is the Department of Human Resources, Brownson Hall, University of Notre Dame, Notre Dame, Indiana 46556; and at the U.S. Department of Labor in Washington, D.C., or to obtain a copy from the U.S. Department of Labor upon payment of copying costs. Requests to the U.S. Department of Labor should be addressed to: Public Disclosure Room, N4677, Pension and Welfare Benefit Programs, Department of Labor, 200 Constitution Avenue, N.W., Washington, D.C. 20216.

### **Group Life Insurance**

This is a summary of the annual report for the Group Life Insurance Plan, employer number 35-0868188, for the plan year January 1, 1991, through December 31, 1991. The annual report has been filed with the Internal Revenue Service as required under the Employee Retirement Income Security Act of 1974 (ERISA).

#### **INSURANCE INFORMATION:**

The plan has a contract with the First Equicor Life Insurance Company to pay all claims incurred under the terms of the plan. The total premiums paid for the plan year ending December 31, 1991, were \$696,206.00.

#### YOUR RIGHT TO ADDITIONAL INFORMATION: You have the right to receive a copy of the full annual report or any part thereof, including insurance information,

### Documentation

on request. To obtain a copy of the full annual report, or any part thereof, write or call the office of the plan administrator: Roger V. Mullins, Director, Department of Human Resources, University of Notre Dame, Notre Dame, Indiana 46556; (219) 239-5900.

Under the provisions of ERISA you have the right to receive from the plan administrator upon request, and at no charge, a statement of the assets and liabilities of the plan and accompanying notes. If you request a copy of the full annual report, these statements will be included with it.

You also have the legally protected right to examine the annual report at the main office of the plan which is the Department of Human Resources, Brownson Hall, University of Notre Dame, Notre Dame, Indiana 46556; and at the U.S. Department of Labor in Washington, D.C., or to obtain a copy from the U.S. Department of Labor upon payment of copying costs. Requests to the U.S. Department of Labor should be addressed to: Public Disclosure Room, N4677, Pension and Welfare Benefit Programs, Department of Labor, 200 Constitution Avenue, N.W., Washington, D.C. 20216.

### Acordia Collegiate Benefits, Inc.

This is a summary of the annual report of the Mutual Medical Insurance Plan for the University, employer number 35-0868188, for the plan year January 1, 1991, through December 31, 1991. The annual report has been filed with the Internal Revenue Service as required under the Employee Retirement Income Security Act of 1974 (ERISA).

#### **INSURANCE INFORMATION:**

By contract Acordia Collegiate Benefits, Inc. pays specified hospital, surgical and major medical claims. Because the University's contract is "experience-rated," the premium costs are affected by the number and size of paid claims.

During the plan year ending December 31, 1991, a total of \$4,131,069.65 in premiums was paid. During the same period Acordia Collegiate Benefits, Inc. paid \$4,436,993.96 in claims. Claim reserves decreased by \$1,481,902.03 and there were \$604,503.18 in other expenses.

#### YOUR RIGHT TO ADDITIONAL INFORMATION:

You have the right to receive a copy of the full annual report or any part thereof, including insurance information, on request. To obtain a copy of the full annual report, or any part thereof, write or call the office of the plan administrator: Roger V. Mullins, Director, Department of Human Resources, University of Notre Dame, Notre Dame, Indiana 46556; (219) 239-5900. Under the provisions of ERISA you have the right to receive from the plan administrator upon request, and at no charge, a statement of the assets and liabilities of the plan and accompanying notes. If you request a copy of the full annual report, these statements will be included with it.

You also have the legally protected right to examine the annual report at the main office of the plan which is the Department of Human Resources, Brownson Hall, University of Notre Dame, Notre Dame, Indiana 46556; and at the U.S. Department of Labor in Washington, D.C., or to obtain a copy from the U.S. Department of Labor upon payment of copying costs. Requests to the U.S. Department of Labor should be addressed to: Public Disclosure Room, N4677, Pension and Welfare Benefit Programs, Department of Labor, 200 Constitution Avenue, N.W., Washington, D.C. 20216.

# TIAA/CREF Retirement Annuity for Faculty and Administrators

This is a summary of the annual report for TIAA/CREF Retirement Annuity Plan, employer number 35-0868188, for the plan year January 1, 1991, through December 31, 1991. The annual report has been filed with the Internal Revenue Service as required under the Employee Retirement Income Security Act of 1974 (ERISA).

#### BASIC FINANCIAL STATEMENT:

Benefits under the plan are provided by individually owned, fully vested annuity contracts issued by Teachers Insurance and Annuity Association and the College Retirement Equities Fund. The total payments paid for this plan year ending December 31, 1991, were \$7,870,175.51. A total of 1,169 persons were participants in or beneficiaries of the plan at the end of the plan year, although not all of these persons had yet earned the right to receive benefits.

#### YOUR RIGHT TO ADDITIONAL INFORMATION:

You have the right to receive a copy of the full annual report or any part thereof, including insurance information, on request. To obtain a copy of the full annual report, or any part thereof, write or call the office of the plan administrator: Roger V. Mullins, Director, Department of Human Resources, University of Notre Dame, Notre Dame, Indiana 46556; (219) 239-5900.

Under the provisions of ERISA you have the right to receive from the plan administrator upon request, and at no charge, a statement of the assets and liabilities of the plan and accompanying notes. If you request a copy of the full annual report, these statements will be included with it.

### Documentation

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### Partners National Health Plan HMO

This is a summary of the annual report for Partners National Health Plan HMO, employer number 35-0868188, for the plan year January 1, 1991, through December 31, 1991. The annual report has been filed with the Internal Revenue Service as required under the Employee Retirement Income Security Act of 1974 (ERISA).

#### INSURANCE INFORMATION:

Partners National Health Plan HMO provides benefits for medical care as a Federally qualified Health Maintenance Organization. During the plan year ending December 31, 1991, the University and the employees choosing this optional health care coverage paid \$1,975,674.00 in premiums.

YOUR RIGHT TO ADDITIONAL INFORMATION: You have the right to receive a copy of the full annual report or any part thereof, including insurance information, on request. To obtain a copy of the full annual report, or any part thereof, write or call the office of the plan administrator: Roger V. Mullins, Director, Department of Human Resources, University of Notre Dame, Notre Dame, Indiana 46556; (219) 239-5900.

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### **TIAA Group Disability**

This is a summary of the annual report of the University of Notre Dame's TIAA Group Disability Benefit Plan for faculty and administrative staff, employer number 35-0868188, for the plan year January 1, 1991, through December 31, 1991. The annual report has been filed with the Internal Revenue Service as required under the Employee Retirement Income Security Act of 1974 (ERISA).

#### INSURANCE INFORMATION:

The plan has a contract with the Teachers Insurance and Annuity Association (TIAA) to pay all claims incurred under the terms of the plan. The total premiums paid for the period ending December 31, 1991, were \$124,568.44.

YOUR RIGHT TO ADDITIONAL INFORMATION: You have the right to receive a copy of the full annual report or any part thereof, including insurance information, on request. To obtain a copy of the full annual report, or any part thereof, write or call the office of the plan administrator: Roger V. Mullins, Director, Department of Human Resources, University of Notre Dame, Notre Dame, Indiana 46556; (219) 239-5900.

Under the provisions of ERISA you have the right to receive from the plan administrator upon request, and at no charge, a statement of the assets and liabilities of the plan and accompanying notes. If you request a copy of the full annual report, these statements will be included with it.

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### The Graduate School Research Division

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### Current Publications and Other Scholarly Works

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

#### COLLEGE OF ARTS AND LETTERS

#### Anthropology

#### Murphy, Martin F.

M.F. Murphy. 1992. Baseball's Caribbean Connection. Hemisphere 4(3):42-44.

Sheridan, Susan G.

D.M. Mittler and S.G. Sheridan. 1992. Sex Determination in Subadults Using Auricular Surface Morphology: A Forensic Science Perspective. *Journal of Forensic Sciences* 37(4):1068-1075.

#### Art, Art History and Design

Adcock, Craig E.

- C.E. Adcock. 1992. Abstraction in Chicago. Tema Celeste International Edition. (35):70-73.
- C.E. Adcock. 1992. After Duchamp. Tema Celeste International Edition (36):50-53.
- C.E. Adcock. 1992. Conversational Drift, by H. Mayer Harrison and N. Harrison. *Art Journal* 51(Summer):35-45.
- C.E. Adcock. 1992. Plastic Criteria, by T. Turkle. University of South Florida Contemporary Art Museum, Tampa, Florida.
- C.E. Adcock. 1992. Maria Nordman (Renaissance Society, University of Chicago, Chicago, Illinois). *Tema Celeste International Edition* (35):101-102.
- C.E. Adcock. 1992. Roland Reiss (Municipal Art Gallery, Los Angeles, California). *Tema Celeste International Edition* (35):100-101.

#### **Communication and Theatre**

Pilkinton, Mark C.

M.C. Pilkinton. 1992. The Effect of the Reformation on the Antagonists in English Drama. *Theatre and Religion* 1(1):50-57.

#### Core Course

#### Neiman, Alven M.

A.M. Neiman. 1992. William James and a World of Desire. *The Philosophy of Education Newsletter* 2(5/92):6-7.

#### Economics

Mirowski, Philip E.

- P.E. Mirowski. 1992. Do Economists Suffer from Physics Envy? *Finnish Economic Papers* 5(1):61-68.
- P.E. Mirowski. 1992. Looking for Those Natural Numbers: Dimensionless Constants and the Idea of Natural Measurement. *Science in Context* 5(1):165-188.
- P.E. Mirowski. 1992. Nicholas Güorgesco Roegen. Pages 86-105 *in*, W. Samuels, ed., New Horizons in Economic Thought. Kluwer Publishing. Norwell, Massachusetts.

#### English

Costello, Donald P.

D.P. Costello. 1992. Myths of the Moon: Moonstruck as Romance. Pages 76-80 *in*, D. Radcliff-Umstead, ed., Myth and Legend on Film. Kent State University, Kent, Ohio.

#### **Government and International Studies**

#### Loescher, Gilburt D.

G.D. Loescher. 1992. Refugees and the Asylum Dilemma in the West. Penn State Press, University Park, Pennsylvania. 117 pp.

G.D. Loescher. 1992. Refugee Movements and International Security. Brassey's for the International Institute for Strategic Studies, London, England. 83 pp.

Mainwaring, Scott P.

S.P. Mainwaring. 1992. Presidentialism in Latin America. Pages 111-117 *in*, A. Lijphart, ed., Parliamentary Versus Presidential Government. Oxford University Press, Oxford, England.

Roos, John

J. Roos. 1992. Doing More with Less: The Fiscal Crisis in St. Joseph County Governments. Indiana University at South Bend, Michiana Urban Observatory, South Bend, Indiana. 46 pp + Appendix.

#### German and Russian Languages and Literatures

#### Schaum, Konrad J.

K.J. Schaum. 1992. Psychologie and Zeitbewusstsein. Zur Menschengestaltung Franz Grillparzers. Jahrbuch der Grillparzer-Gesellschaft 18:271-283.

#### **Romance Languages and Literatures**

Cachey, Theodore J., Jr.

T.J. Cachey, Jr. 1992. The Meaning of a Storm: Columbus's First Voyage of Discovery. RLA: Romance Languages Annual 1991. III:374-379 pp.

### The Graduate School Research Division

Douthwaite, Julia V.

- J.V. Douthwaite. 1992. Exotic Women: Literary Heroines and Cultural Strategies in Ancien Régime France. University of Pennsylvania Press, Philadelphia, Pennsylvania. 211 pp.
- J.V. Douthwaite. 1992. Relocating the Exotic Other in Graffigny's Lettres d'une Péruvienne. *Romanic Review* 82(4):456-474.

#### Jerez-Farrán, Carlos

C. Jerez-Farrán. 1991. Una posible fuente pictórica de la escena de retablo' en Divinas palabras de Valle-Inclán. *Romanic Review* 82(4):485-499.

Olivera-Williams, María R.

- M.R. Olivera-Williams. 1992. Mario Benedetti. Pages 48-54 *in*, W. Luis, ed., Modern Latin-American Fiction Writers. Bruccoli Clark Layman, Detroit, Michigan & London, The United Kingdom.
- M.R. Olivera-Williams. 1992. Poesía y sociedad (1985), de Hugo Achugar. Pages 385-387 *in*, Diccionario de Literatura Uruguaya, Tomo III. Arca, Montevideo, Uruguay.

#### Philosophy

Kourany, Janet A.

- J.A. Kourany. 1992. Feminst Philosophies. Prentice Hall, Inc., Englewood Cliffs, New Jersey. 402 pp.
- J.A. Kourany. 1992. Transforming the Philosophy Curriculum. Pages 165-177 *in*, Proceedings of the Fifth Annual International Conference of Women in Higher Education.
- J.A. Kourany. 1991. Philosophy in a Different Voice. *The Journal of Philosophy.* 86(10):152-163.

McInerny, Ralph M.

- R.M. McInerny. 1992. The Dutiful Son. Pages 13-44 *in*, C. Manson, ed., Thou Shalt Not Kill. Bantam Doubleday Dell, New York, New York.
- R.M. McInerny. 1992. Judas Priest, by R.M. McInerny. Thorndike Press, Thorndike, Maine. 290 pp.
- R.M. McInerny. 1992. Obiter Dicta. Fellowship of Catholic Scholars Newsletter 15(4):1-2.

Sterba, James P.

J.P. Sterba. 1991. Response to Nine Commentators. Journal of Social Philosophy 22(3):100-118.

#### **Program of Liberal Studies**

#### Sloan, Phillip R.

- P.R. Sloan. 1992. Review of The Meaning of Evolution, by R. Richards. *Science* 256(May 22):1223-1224.
- P.R. Sloan. 1992. Richard Owen's Hunterian Lectures, May-June 1837. University of Chicago Press, Chicago, Illinois. xii + 330 pp.

#### Sociology

Christiano, Kevin J.

K.J. Christiano. 1992. Contemporary Developments in American Religion. Pages 1526-1555 *in*, G. Hodgson, ed., The United States: Volume 3, Handbooks to the Modern World. Facts On File, Inc., New York, New York.

#### Theology

Signer, Michael A.

- M.A. Signer. 1992. Review of Saadia ben Joseph Al-Fayyūmī, The Book of Theodicy: Translation and Commentary, translated by L.E. Goodman. Speculum: A Journal of Medieval Studies 67(2):217-219.
- M.A. Signer. 1992. Foreward. Pages xiii-xvii *in*, K. Olitzky, ed., Renewed Each Day: Daily Twelve-Step Recovery Meditations Based on the Bible Volume 1. Jewish Lights Publishing, Woodstock, Vermont.

#### COLLEGE OF SCIENCE

#### **Biological Sciences**

Craig, George B., Jr.

C.J. Mitchell, M.L. Niebylski, C. Smith, N. Karabatsos, D. Martin, J.-P. Mutebi, G.B. Craig, Jr., and M.J. Mahler. 1992. Isolation of Eastern Equine Encephalitis Virus from *Aedes albopictus* in Florida. *Science* 257(July 24):526-527.

Kulpa, Charles F., Jr.

- J.A. Brierley and C.F. Kulpa, Jr. 1992. Microbial Consortium Treatment of Refractory Precious Metal Ores. *United States Patent*, Patent No. 5,127,942:1-10.
- Munstermann, Leonard E.
- C.A. Green, L.E. Munstermann, S.G. Tan, S. Panyim and V. Baimai. 1992. Population Genetic Evidence for Species A, B, C and D of the *Anopheles dirus* Complex in Thailand and Enzyme Electromorphs for Their Identification. *Medical and Veterinary Entomology* 6:29-36.

#### Chemistry and Biochemistry

Thomas, J. Kerry

- X. Liu, K.-K. Iu and J.K. Thomas. 1992. Encapsulation of TiO<sub>2</sub> in Zeolite Y. *Chemical Physics Letters* 195(2,3):163-168.
- X. Liu and J.K. Thomas. 1992. Temperature Effects on Formation and Transformation of Alkali-Metal Ionic Clusters in γ—>-Irradiated Zeolites. *Langmuir* 8:1750-1756.

### The Graduate School Research Division

#### Mathematics

Sommese, Andrew J.

M.C. Beltrametti and A.J. Sommese. 1992. On the Adjunction Theoretic Classification of Polarized Varieties. *Journal für die Reine und Angewandte Mathematik* Math 427:157-192.

Physics

#### Livingston, A. Eugene

T. Stohlker, C. Kozhuharov, A.E. Livingston, P.H. Mokler, Z. Stachura and A. Warczak. 1992. Radiative Electron Capture into the K-, L-, and M-Shell of Decelerated Hydrogenic Ge Projectiles. *Zeitschrift für Physik D* 23:121-125.

#### COLLEGE OF ENGINEERING

#### Aerospace and Mechanical Engineering

Sen, Mihir

N. Acharya, M. Sen and H.-C. Chang. 1992. Applications of Chaotic Heat and Mass Transfer Enhancement. *AIChE Symposium Series* 88:44-49.

#### **Chemical Engineering**

Chang, Hsueh-Chia

- See under AEROSPACE AND MECHANICAL ENGINEER-ING; Sen, Mihir. 1992. AIChE Symposium Series 88:44-49.
- H.-C. Chang. 1992. Flow of Gas Slugs under Microgravity Conditions. Page 261 in, Hydromechanics and Heat/Mass Transfer in Microgravity. Gordon and Breach, New York, New York.

Kantor, Jeffrey C.

A. Elias-Juarez and J.C. Kantor. 1992. On the Application of Wavelets to Model Predictive Control. Pages 1582-1586 *in*, Proceedings of the 1992 American Control Conference. American Automatic Control Council, Evanston, Illinois.

Varma, Arvind

- A. Varma and J.-P. Lebrat. 1992. Combustion Synthesis of Advanced Materials. *Chemical Engineering Science* 47:2179-2194.
- J.-P. Lebrat and A. Varma. 1992. Combustion Synthesis of the YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub>-<sub>x</sub> Superconductor. *Solid State Phenomena* 25:233-240.
- A. Varma, G. Cao, J.-P. Lebrat and M. Morbidelli. 1992. Self-Propagating Reactions in Finite Pellets: Theory and Experiments. *International Journal of Self-Propagating High-Temperature Synthesis (Inaugural Issue)* 1:9-18.
- R.G. Pigeon and A. Varma. 1992. Some Chemical Reaction Engineering Considerations in the Synthesis of Silicon Nitride. *Chemical Engineering Science* 47:2585-2590.

#### **Civil Engineering and Geological Sciences**

Gray, William G.

- R.L. Kolar, W.G. Gray and J.A. Westerink. 1992. An Analysis of the Mass Conserving Properties of the Generalized Wave Equation. Pages 537-544 *in*, T.F. Russell, R.E. Ewing, C.A. Brebbia, W.G. Gray and G.F. Pinder, eds., Computational Methods in Water Resources IX, Volume 2 Mathematical Modeling in Water Resources. Elsevier Science Publishers, Southampton, London, United Kingdom.
- T.F. Russell, R.E. Ewing, C.A. Brebbia, W.G. Gray, and G.F. Pinder, eds. 1992. Computational Methods in Water Resources IX, Volume 1, Numerical Methods in Water Resources. Computational Mechanics Publications. Elsevier, London, United Kingdom.
- T.F. Russell, R.E. Ewing, C.A. Brebbia, W.G. Gray, and G.F. Pinder, eds. 1992. Computational Methods in Water Resources IX, Volume 2, Numerical Methods in Water Resources. Computational Mechanics Publications. Elsevier, London, United Kingdom.
- M.A. Celia and W.G. Gray. 1992. Instructor's Manual for Numerical Methods for Differential Equations: Fundamental Concepts for Scientific and Engineering Applications. Prentice Hall, Englewood Cliffs, New Jersey. 90 pp.
- M.A. Celia and W. G. Gray. 1992. Numerical Methods for Differential Equations: Fundamental Concepts for Scientific and Engineering Applications. Prentice Hall, Englewood Cliffs, New Jersey. 436 pp.

See under ELECTRICAL ENGINEERING; Michel, Anthony N. 1992. Advances in Water Resources 15(2):95-105. Spencer, Billie F., Jr.

- J. Suhardjo, B.F. Spencer, Jr., M.K. Sain and D. Tomasula. 1992. Nonlinear Control of a Tension Leg Platform. Pages 464-474 in, N.K. Srivastava, A.N. Sherbourne & J. Roorda, eds., Innovative Large Span Structures. Volume 1. Canadian Society for Civil Engineering, Montreal, Canada.
- L.A. Bergman and B.F. Spencer, Jr. 1992. Numerical Solution of the Transient Fokker-Planck Equation: The Movie. Pages 519-522 *in*, Proceedings of the 6th ASCE Specialty Conference on Probabilistic Mechanics and Structural and Geotechnical Safety. Denver, Colorado.
- B.F. Spencer, Jr., C. Montemagno, M.K. Sain and P.M. Sain. 1992. Reliability of Controlled Structures Subject to Real Parameter Uncertainty. Pages 369-372 *in*, Proceedings of the 6th ASCE Specialty Conference on Probabilistic Mechanics and Structural and Geotechnical Safety. Denver, Colorado.

Suhardjo, Johanes

See under Spencer, Billie F., Jr. 1992. Pages 464-474 *in*, Innovative Large Span Structures. Volume 1. Westerink, Joannes A.

See under Gray, William G. 1992. Pages 537-544 *in*, Computational Methods in Water Resources IX, Volume 2. Mathematical Modeling in Water Resources.

#### 

#### Electrical Engineering

#### Alcock, Charles B.

- C.B. Alcock, J.W. Fergus and L. Wang. 1992. The Electrolytic Properties of LaYO<sub>3</sub> and LaAlO<sub>3</sub> Doped with Alkaline-Earth Oxides. *Solid State Ionics* 51:291-295.
- C.B. Alcock, R.C. Doshi and Y. Shen. 1992. Perovskite Electrodes for Sensors. *Solid State Ionics* 51:281-289.
- C.B. Alcock. 1991. Electrochemical Sensors for the Non-Metallic Elements. *Proceedings of Sundaram Symposium, Kalpakkam, India* November 1989.

Michel, Anthony N.

C.-H. Kuo, A.N. Michel and W.G. Gray. 1992. Design of Optimal Pump-and-Treat Strategies for Contaminated Groundwater Remediation Using the Simulated Annealing Algorithm. *Advances in Water Resources* 15(2):95-105.

Sain, Michael K.

- See under CIVIL ENGINEERING AND GEOLOGICAL SCI-ENCES; Spencer, Billie F., Jr. 1992. Pages 464-474 *in*, Innovative Large Span Structures. Volume 1.
- See under CIVIL ENGINEERING AND GEOLOGICAL SCI-ENCES; Spencer, Billie F., Jr. 1992. Pages 369-372 *in*, Proceedings of the 6th ASCE Specialty Conference on Probabilistic Mechanics and Structural and Geotechnical Safety.

#### School of Architecture

Stroik, Duncan G.

- D.G. Stroik. 1992. Drawings. J. Wilson Newman Pavilion, University of Virginia, designed by A. Greenberg. Athens, Georgia.
- D.G. Stroik. 1992. The News Building, Athens, Georgia, designed by A. Greenberg in Paternoster Square and the New Classical Tradition. *Academy Editions* 94-96.

#### COLLEGE OF BUSINESS ADMINISTRATION

#### Management

Sinha, Diptendu

D. Sinha and J.C. Wei. 1992. Stochastic Analysis of Flexible Process Choices. *European Journal of Operational Research* 60(2):183-199.

Vecchio, Robert P.

R.P. Vecchio. 1992. Cognitive Resource Theory: Issues for Specifying a Test of the Theory. *Journal of Applied Psychology* 77:375-376.

Wei, Jerry C.

- S.M. Shafer, G.M. Kern, and J.C. Wei. 1992. A Mathematical Programming Approach for Dealing with Exceptional Elements in Cellular Manufacturing. *International Journal of Production Research* 30(5):1029-1036.
- J.C. Wei. 1992. A Note on Change to Group Technology. *International Journal of Production Research* 30(5):1221-1222.

- See under Sinha, Diptendu. 1992. European Journal of Operational Research 60(2):183-199.
- E. White, J.C. Wei, and T.J. Wharton. 1992. A Survey of Opinion & Practice in Cellular Manufacturing. Pages 215-219 *in*, C.-Y. Lee, M.-t Lu and R. Tsai, eds., ACME Transactions of the 1992 International Conference of the Pacific Region Management. American Chinese Management Educators (ACME) Association, Washington, D.C.

#### LAW SCHOOL

Fick, Barbara J.

- B.J. Fick. 1992. Labor and Employment Law. Indiana Law Review 25(4):1311-1329.
- Gunn, Alan
- A. Gunn and L.D. Ward. 1992. Cases, Text and Problems on Federal Income Taxation, 3rd Edition. West Publishing Company, St. Paul, Minnesota. lxix + 817 pp.
- A. Gunn and L.D. Ward. 1992. Teacher's Manual to Accompany Cases, Text and Problems on Federal Income Taxation, 3rd Edition. West Publishing Company, St. Paul, Minnesota. viii + 284 pp.

Shaffer, Thomas L.

- T.L. Shaffer. 1992. The Dean. Notre Dame Magazine 21(2):13-16.
- T.L. Shaffer. 1992. There is More to Legal Ethics Than Rules. Social Responsibility: Business, Journalism, Law, Medicine 18:31-57.
- Tidmarsh, Jay H.
- J.H. Tidmarsh. 1992. Tort Law: The Languages of Duty. *Indiana Law Review* 25(4):1419-1467.

#### RADIATION LABORATORY

Kamat, Prashant V.

S. Hotchandani and P.V. Kamat. 1992. Photoelectrochemistry of Semiconductor ZnO Particulate Films. *Journal of the Electrochemical Society* 139(6):1630-1634.



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