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MARCH 31, 1994 • NUMBER 14

Callahan to Receive Laetare Medal

Sidney Callahan, professor of psychology at Mercy College and columnist for *Commonweal* magazine, will receive Notre Dame's 1994 Laetare Medal. Callahan, a native of Washington, D.C., was graduated from Bryn Mawr College in 1955, obtained a master's degree in psychology from Sarah Lawrence College in 1971 and received a doctorate in social and personality psychology from City University of New York in 1980. Before joining the Mercy College faculty that year, she taught for three years in Fairfield University's graduate school of education. She has been a visiting professor at Boston College and the University of Denver and has lectured at more than 200 institutions of higher education nationwide.

In addition to her *Commonweal* column, Callahan has written numerous articles in popular and scholarly magazines on a variety of issues including medical ethics, the role of women in the church and society, popular culture, politics, marriage, sexuality, child rearing, prayer and ecumenism. A consultant at the Hastings Center, an ethical research foundation established and now directed by her husband, Daniel Callahan, she also served on advisory boards and committees for the Catholic Health Association, the New Jersey Citizens Committee for Biomedical Ethics, the Ford Foundation, the National Science Foundation, the National Endowment for the Humanities and the Kennedy Institute of Bioethics.

Among the books Callahan has written or edited are *In Good Conscience: Reason and Emotion in Moral Decision-making*; *With All Our Heart and Mind: The Spiritual Works of Mercy in a Psychological Age*; *Abortion: Understanding Differences*; *The Working Mother*; *Beyond Birth Control: Christian Experience of Sex*; *The Illusion of Eve: Modern Woman's Search for Identity*; *The Magnificat: The Prayer of Mary*; and *Christian Family Planning and Sex Education*.

Callahan received an honorary degree from Notre Dame in 1991. Among other honors she has received are an honorary degree from Saint Mary's College, the Marianist Award from the University of Dayton, the Sesquicentennial Medal from Manhattanville College, and the Rosary College Alumnae Medal.

Honorary Degree Recipients Announced

Eleven national and international dignitaries, including principal speaker Albert Reynolds, head of government of Ireland, will receive honorary degrees during Notre Dame's 149th Commencement exercises. Reynolds, elected Ireland's head of government, or Taoiseach, in February 1992, will receive an honorary doctor of laws degree. Also to receive honorary degrees are:

Erma Bombeck, syndicated newspaper columnist, doctor of laws. Bombeck is the author of 11 books and a thrice-weekly column that is syndicated in some 750 newspapers nationwide. A University of Dayton alumna, she began her career writing obituaries and the weather forecast at the *Dayton Journal Herald*. She left the newspaper business in 1953 to devote full time to her children, then in 1965 started writing a column on domesticity that soon was syndicated in newspapers across the country. Her column today is read by an estimated 31 million people, and she repeatedly has been selected to *The World Almanac's* annual list of 25 most influential women in America.

Shiing-Shen Chern, professor emeritus of mathematics, University of California at Berkeley, doctor of science. Widely recognized as the world's greatest living geometer, Chern has developed numerous key concepts that form the foundation of global differential geometry. Born in China, Chern studied at Nankai University and the University of Hamburg in Germany. He returned to China to teach, then fled to the United States in 1948 as the Communists took control of his homeland. He held a chaired professorship in mathematics at the University of Chicago from 1948 through 1961, then joined the faculty at Berkeley. In addition to his teaching responsibilities, he founded the Mathematical Sciences Research Institute at Berkeley and a similar organization at Nankai University.

Johnnetta B. Cole, president, Spelman College, doctor of laws. A nationally respected anthropologist, author, administrator and teacher, Cole in 1987 became the first African-American woman president of historically black Spelman College in Atlanta. During her tenure, a number of new programs have been initiated at Spelman, and the college annually has been ranked among the leading liberal arts colleges in the United States. Entering Fisk University in an early admissions program at age 15, Cole went on to earn her bachelor's degree from Oberlin College and master's and doctoral degrees in anthropology from Northwestern University. The author of two widely-used textbooks in her field, she long has been an advocate for women and all people of color.

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James S. Coleman, professor of sociology, University of Chicago, doctor of laws. One of the nation's leading social theorists, Coleman is a researcher with the National Opinion Research Center as well as a member of the Chicago faculty. His most recent work has involved the study of "constructed" institutions such as corporations and how they have changed the way society operates. His work in the sociology of education includes "Public and Private High Schools: The Impact of Communities," a study that found achievement to be greater in Catholic schools, even when socioeconomic factors were considered. Coleman earned his bachelor's degree from Purdue University and his doctorate from Columbia University. He was on the faculty of Johns Hopkins University from 1959 to 1973 and served as president of the American Sociological Association in 1991-92.

Marian Wright Edelman, president, Children's Defense Fund, doctor of laws. As founder and president of the Children's Defense Fund (CDF) Edelman is a powerful advocate in Congress, at the White House and across the nation for American's children. Established in 1973, the CDF addresses issues such as the health and education of children, youth employment, child care and family support systems. Edelman was graduated from Spelman College in 1960 and earned her law degree from Yale University in 1963. The author of two books — *Families in Peril: An Agenda for Social Change* and *The Measure of Our Success: A Legacy to My Children and Yours* — she currently is developing, for fall publication, a parenting guide for African-American families.

Cardinal Roger Etchegaray, president, Pontifical Council for Justice and Peace, doctor of laws. As president of the Council for Justice and Peace, Etchegaray has represented Pope John Paul II around the world — from Cuba to South Africa, Iraq to Vietnam, the former Soviet Union to the former Yugoslavia — and has been responsible for the Vatican's landmark documents on racism, international debt, homelessness and other issues. His official duties also include presiding over *Cor Unum*, the organization responsible for the church's charitable activities. After graduating from Gregorian University in Rome, Etchegaray was ordained a priest in 1947. He worked in the parish of his native Bayonne, France, while also taking part in larger activities of the church worldwide. In 1969 he was made auxiliary bishop of Paris, and two years later he became archbishop of Marseilles. He was elevated to cardinal in 1979.

Shelby Foote, writer and historian, doctor of laws. Author of the massive history *The Civil War: A Narrative*, Foote is arguably the world's foremost authority on the subject. A native of Mississippi, he served in World War II and attended the University of North Carolina before embarking on a writing career. His early work included

five well-received novels, all but one set in his home state. In the early 1950s he was asked to write a brief history of the Civil War. Twenty years and three volumes later, he completed the project. Foote, 78, continues to write from his home in Memphis, Tenn., and in 1990 was seen on the Public Broadcasting Service's five-part Civil War documentary.

Nick Holonyak Jr., professor, University of Illinois, doctor of engineering. Holonyak, an Illinois alumnus and member of the university's engineering faculty since 1963, is credited with the invention of the first practical light-emitting diode (LED), a semiconductor crystal device that led to digital watches and a range of electronic instrument panel readouts. He also developed the device that makes possible the household light-dimmer switch. Before joining the Illinois faculty, Holonyak worked with Bell Telephone Laboratories and General Electric. In 1990 President Bush presented Holonyak with the National Medal of Science, the country's highest scientific honor.

Newton N. Minow, attorney, doctor of laws. Counsel to the Chicago law firm of Sidley & Austin, Minow has served as a member of the Notre Dame Board of Trustees on two occasions, 1964-77 and 1983 to the present. His well-known description of television as a "vast wasteland" came in 1961 when he served under President Kennedy as chairman of the Federal Communications Commission. Before joining the FCC, he had been administrative assistant to Illinois Gov. Adlai Stevenson. He left the FCC to become executive vice president and general counsel of Encyclopedia Britannica, Inc. Minow received bachelor's and law degrees from Northwestern University and has been with Sidley & Austin since 1965. He holds numerous corporate, civic and public service directorships and serves as chairman of the Carnegie Corporation.

John F. Welch Jr., chairman of the board and chief executive officer, General Electric Company, doctor of laws. Welch has more than doubled General Electric's revenue from \$26 billion to \$60 billion annually since becoming chairman and CEO in 1981. To meet his goal of creating "a big company body and a small company soul," he has consolidated 150 business units into 12 basic businesses in a "boundaryless" organization. Under Welch, GE has spent \$20 billion on new acquisitions, including the NBC television network and the Kidder Peabody & Co. brokerage firm, and sold any business that does not rank first or second in its field. A chemical engineer by training, Welch earned his bachelor's degree in 1957 from the University of Massachusetts and master's and doctoral degrees from the University of Illinois. He joined GE in 1960.

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Honors

Jay P. Dolan, professor of history, was elected first vice president of the American Catholic Historical Association and will become president of the association in 1995.

David C. Leege, professor of government and international studies, has been elected chair of the Board of Governors for National Election Studies. Since 1952 NES, supported by the National Science Foundation, has been the principal survey data source for understanding American presidential and congressional elections. Leege has served as a member of the board since 1990.

John F. O'Malley, adjunct associate professor of biological sciences, has been appointed director of the South Bend Center for Medical Education and assistant dean of the Indiana University School of Medicine.

Rev. Robert S. Pelton, C.S.C., faculty fellow in the Kroc Institute and the Kellogg Institute, was invited to sit on the national board of Buena Vista, Inc. He was invited to be an official observer for the May elections in Panama.

Joseph M. Powers, assistant professor of aerospace and mechanical engineering, was chosen to serve as a member of the NASA Mars Observer Pyrotechnics Subcommittee.

Roland B. Smith Jr., executive assistant to the president, director and associate professional specialist in the Institute for Urban Studies and concurrent associate professor of sociology, has been elected chairman of the National Association of Presidential Assistants in Higher Education. Established in 1988, the association provides and supports professional development activities and other programs for assistants to presidents at American colleges and universities.

Activities

José Anadón, professor of Romance languages and literatures, presented the paper "Humanismo y lascasismo en el Inca Garcilaso" in the session "La formación de la cultura colonial en el Perú, siglos XVI-XVII: Humanismo y Neo-escolástica" at the tenth international congress of the European Association of Latin American Historians at the University of Leipzig, Germany, Sept. 21-25. He gave the lecture "Literatura urbana mexicana" at a symposium sponsored by the Consejo Superior de Investigaciones Científicas (CSIC) and Ed. Litertarias/Prodhufi at the Casa de América in Madrid, Spain, Feb. 15. He presented the lecture "La novela mexicana contemporánea" at the Universidad de Murcia, Spain, Feb. 17.

Panos Antsaklis, professor of electrical engineering, gave the inaugural lecture "Modeling and Design of Hybrid Control Systems" in the new McCormick Control Colloquium lecture series for distinguished speakers in Control at the McCormick School of Engineering and Applied Sciences of Northwestern University in Evanston, Ill., Feb. 18. He was an invited speaker and panelist at the workshop on the Control of Discreet Event Systems sponsored by the Air Force Office of Scientific Research at the Wright-Patterson Air Force Base in Dayton, Ohio, Feb. 24-25.

Joan F. Brennecke, assistant professor of chemical engineering, presented an invited seminar titled "The Influence of Microenvironments on Reactions in Supercritical Fluids" at the Department of Chemical Engineering at Princeton University in Princeton, N.J., March 2.

Sally B. Brogden, visiting assistant professor of art, art history and design, had three works included in the 1994 Ceramic Invitational at the Student Exhibition Center at Southwest Missouri State University in Springfield, Mo., Feb. 4-28. She presented "Sally Brogden: Recent Work," a solo show with nine recent sculptures, at the Woman's Art League Gallery of the South Bend Museum of Art in South Bend, Ind., March 12-April 24. She participated in the show "Notre Dame on the Bayou" at Nicholls State University in Thibodaux, La., March 21-April 8.

Ziyi Danny Chen, assistant professor of computer science and engineering, gave the presentation "Optimally Computing the Shortest Weakly Visible Subedge of a Simple Polygon" at the fourth annual international symposium on Algorithms and Computation in Hong Kong, Dec. 15-17.

Daniel J. Costello Jr., chairperson and professor of electrical engineering, presented a paper titled "Progress Towards Achieving Channel Capacity, or 45 Years in the Desert, Now Into the Promised Land?" at Coding and Cryptography in Monte Verita, Switzerland, Feb. 11. This symposium was held in honor of the 60th birthday of James L. Massey, formerly Freimann professor of electrical engineering at Notre Dame.

Sheila R. Curl, assistant librarian, presented "A Tour of Internet: The Information Super Highway" at the 1994 SAE International Congress in Detroit, Mich., March 1.

Jay P. Dolan, professor of history, delivered the paper titled "The One or the Many: Cultural Diversity and the Rage for Order in American Catholic History," at the national convention of the National Organization for the Continuing Education of Roman Catholic Clergy in San Diego, Calif., Feb. 7. He delivered the paper titled "The

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Search for an American Catholicism 1780-1820" at a colloquium honoring William McLoughlin at Brown University in Providence, R.I., March 19.

Ronald Dorris, assistant professor of American studies, chaired the panel "The Challenge to Survive," a component of the theme African American Culture in the Age of Multiculturalism, at the Southern Conference on Afro-American Studies in Dallas, Tex., Feb. 17-19.

Julia Douthwaite, assistant professor of Romance languages and literatures, presented a paper titled "The 'Wild Girl of Champagne': Science and Sensationalism in the Enlightenment" at the annual meeting of the American Society for Eighteenth-Century Studies in Charleston, S.C., March 12.

William G. Dwyer, professor of mathematics, gave the invited lecture "The Topological K-theory of Algebraic K-Theory Spectra" to the Mathematics Department at Johns Hopkins University in Baltimore, Md., March 7.

Leonid Faybusovich, assistant professor of mathematics, presented the paper "A Hamiltonian Structure of Generalized Affine-scaling Vector Fields" at the University of Pennsylvania-University of Maryland conference on Dynamical System Theory at the University of Maryland in College Park, Md., March 12-15. He gave an invited talk "A Hamiltonian Formalism for Optimization Problems" in "Systems Research Centre of the University of Maryland" in College Park, Md., March 15.

Jean-Francois Gaillard, assistant professor of civil engineering and geological sciences, presented "Modelling Iron Cycling in a Eutrophic Lake" and "Preliminary Results from the Antares 1 Cruise: The French Contribution to Southern JGOFS" at the Ocean Sciences Meeting in San Diego, Calif., Feb. 21-25.

Kimberly A. Gray, assistant professor of civil engineering and geological sciences, presented the seminar titled "Characterization of Natural Organic Material Using Pyrolysis-GC-MS: Applications in Water Treatment" jointly sponsored by the U.S. EPA and University of Cincinnati Department of Civil Engineering in Cincinnati, Ohio, Feb. 11. She co-authored three papers presented at the fourth international symposium on Chemical Oxidation sponsored by Vanderbilt University and the International Chemical Oxidation Association in Nashville, Tenn., Feb. 16-18. She co-authored "Gamma Irradiation of Soils Contaminated with 2,2,7,8-Tetrachlorodibenzo-p-dioxin using ^{60}Co " with Roger Hillarides, "Photocatalytic Degradation of 2,4,6-trinitrotoluene in TiO_2 slurries with Daniel Schmelling, and "Photocatalytic Oxidation of 4-chlorophenol on Titanium Dioxide: A Comparison with γ -Radiolysis" with Ulick Stafford. Gray presented the

seminar "Pyrolysis-GC-MS Analysis of Natural Organic Compounds in Water" jointly sponsored by Orange County Water District and National Water Research Institute in Fountain Valley, Calif., Feb. 24.

Alexander J. Hahn, professor of mathematics, gave the lecture "Arithmetic Witt Groups and their Quotients" to the workshop "Algebraic K-Theory and Arithmetic" held at the Fields Institute for Research in Mathematical Sciences in Waterloo, Ontario, Feb. 28-March 4.

Prashant V. Kamat, professional specialist in the Radiation Laboratory, presented the papers "Naked and Surface-modified Thin SnO_2 Semiconductor Colloid Films for Photoelectrochemical Conversion of Light Energy" and "Preparation and Photoelectrochemical Behavior of Nanocrystalline Semiconductor Films from Colloidal Suspensions" at the American Chemical Society spring meeting in San Diego, Calif., March 13-18.

Jeffrey C. Kantor, professor of chemical engineering, presented the seminar titled "Issues in Process Monitoring and Model Validation" to the Department of Chemical Engineering at the University of Florida in Gainesville, Fla., March 14.

Craig S. Lent, associate professor of electrical engineering, presented a seminar titled "Quantum Dots Coupled in a Cellular Automata Architecture" at the Physics Department at Michigan State University in East Lansing, Mich., Jan. 31. He presented the talk "Resonant Tunneling Valley Current Suppression" with **Wolfgang Porod**, professor of electrical engineering, at the Quantum Device Modeling Workshop in Dallas, Tex., Feb. 5.

Gilbert D. Loescher, professor of government and international studies, gave a lecture on refugee policy at Lund University, Sweden, Oct. 6. He organized and chaired an international conference of refugee research organizations for the Ford Foundation in Oxford, England, Nov. 12-14. He spoke about his new book *Beyond Charity: International Cooperation and the Global Refugee Crisis* at a Twentieth Century Fund luncheon in New York, N.Y., Dec. 14. He was interviewed on the European refugee problem by the Austrian Broadcasting Corporation during February.

John M. LoSecco, professor of physics, gave the invited talk "Backgrounds" at the Phi Physics Workshop at the Indiana University Cyclotron Facility in Bloomington, Ind., March 10.

Rev. Richard P. McBrien, Crowley-O'Brien-Walter professor of theology, presented "The Future of the Church and its Ministries" to the Notre Dame Committee on the Ordination of Women at the University of Notre Dame,

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Notre Dame, Ind., Feb. 22. He gave the keynote address "The Future of the Church and the Present Conflict" at the New Jersey Pax Christi ninth annual assembly in Wayside, N.J., March 5.

Paul McGinn, associate professor of electrical engineering, presented a talk titled "Interactions Between 90Ag/10Pd and Y-Ba-Cu-O During Reduced pO_2 Melt Processing" and presented the poster "AFM Observations of Fine 211 Precipitates in SLMG $YBa_2Cu_3O_{7-x}$ " at the Midwest Superconductivity Consortium Group Meeting at Indiana University in Bloomington, Ind., Jan. 28. He organized the symposium titled "High Temperature Superconductors" and chaired the session entitled "Structure and Critical Current Density in Y123 Superconductors" held at the TMS meeting in San Francisco, Calif., Feb. 28–March 1. He presented the talks "Interactions Between 90Ag/10Pd and Y-Ba-Cu-O During Reduced pO_2 Melt Processing" and "Processing of Melt Textured $YBa_2Cu_3O_{6+x}$ With Fine 211 Precipitates" and co-authored the talks "Effects of Extremely Fine Precipitates on Flux Pinning, Irreversibility Line and the $U(j)$ Relationship in SLMG Y-123" and "Effects of Pt and Oxygenation on Microstructure in $YBa_2Cu_3O_{7-x}/Y_2BaCuO_5$ Bulk Materials" at that meeting. He also chaired a meeting of the Superconducting Materials Committee and attended council meetings of the Structural Materials Division and the Electronic and Photonic Materials Division of TMS.

Marvin J. Miller, associate chairperson and professor of chemistry and biochemistry, along with Min Teng and Catherine M. Gasparski, received the patent "Process for the Preparation of 3-substituted-2-azeti-dinones," United States Patent 5,250,676, dated Oct. 5. Miller received the patent "Process for Preparing β -Hydroxy- α -amino acids," United States Patent 5,266,468, dated Nov. 30.

Daniel J. Pasto, professor of chemistry and biochemistry, presented a paper titled "Singlet Oxygen of Alkyl 4-Nitrophenyl Sulfides and Sulfoxides: Oxidative Cleavage of the C-S Bond" before the Division of Organic Chemistry at the 207th national American Chemical Society meeting in San Diego, Calif., March 13.

Wolfgang Porod, professor of electrical engineering, presented a talk titled "Resonant Tunneling Diodes: Transmission Resonances and Zeros" with Z. Shao, research assistant, and **Craig S. Lent**, associate professor of electrical engineering, at Sandia National Laboratory in Albuquerque, N.M., Feb. 23. Porod presented a research seminar titled "Quantum Cellular Automata" with Lent and **Gary H. Bernstein**, associate professor of electrical engineering, at that laboratory.

Jean Porter, associate professor of theology, presented "Does Aquinas Believe in Moral Rules?" at the fifth an-

nual Aquinas Lecture at the Dominican School of Theology and Philosophy in Berkeley, Calif., March 8.

Joseph M. Powers, assistant professor of aerospace and mechanical engineering, presented the paper titled "Sensitivity Analysis for a Pyrotechnically Actuated Pin Puller Model" at the 19th international Pyrotechnics Seminar in Christchurch, New Zealand, Feb. 21–25.

James H. Seckinger, director of the National Institute for Trial Advocacy and professor of law, served as program coordinator and a faculty member for the NITA/Skadden Arps Slate Meagher & Flom Deposition Program in New York, N.Y., Feb. 24–25. He gave a faculty training session.

Dennis M. Snow, associate professor of mathematics, gave a colloquium on "Dual Varieties" at Ball State University in Muncie, Ind., March 17.

Billie F. Spencer Jr., associate professor of civil engineering and geological sciences, presented lectures titled "Integration of a Backward and Forward Kolmogorov Equations and the Pontriagin-Vitt Equation by the Finite Element Method I: The First-Passage for a Hysteretic Oscillator and II: Response of Nonlinear Oscillators Subject to Additive White Noise Disturbances" and chaired two sessions at the international workshop on Numerics of Perturbed Dynamical Systems at the Department of Mathematics at Iowa State University in Ames, Iowa, March 6–10.

Mitchell R. Wayne, assistant professor of physics, presented an invited talk on "The DO Upgrade" to the Fermilab Users Executive Committee and the chairman of HEPAP at Fermilab in Batavia, Ill., March 3.

Joannes J. Westerink, assistant professor of civil engineering and geological sciences, presented an invited lecture titled "Convergence Studies of Tidal and Hurricane Storm Surge Response for Continental Margin Waters" and participated in the workshop for "Finite Element Modeling for Environmental Problems" organized by G.F. Carey at the Computational Fluid Dynamics Laboratory, Department of Aerospace Engineering and Engineering Mechanics at the University of Texas in Austin, Tex., March 3–6.

Dariusz M. Wilczynski, assistant professor of mathematics, presented the colloquium "Embedded Surfaces in Four-manifolds" at Yale University in New Haven, Conn., Feb. 9.

Samir Younés, assistant professor of architecture, presented the papers "Critical History and Architectural Education" and "Against Technopolis" at the 82nd annual ACSA meeting in Montreal, Canada, March 12–15.

Academic Council Minutes January 18, 1994

Members in Attendance: Edward A. Malloy, C.S.C., Timothy O'Meara, E. William Beauchamp, C.S.C., Roger Schmitz, Patricia O'Hara, Nathan Hatch, Harold Attridge, John Keane, Eileen Kolman, Anthony Michel, Richard Sheehan, Lynn Friedewald, Frank Bonello, Paula Higgins, Mark Pilkinton, John Roos, Mario Borelli, William Shephard, Hafiz Atassi, Arvind Varma, Carolyn Callahan, Edward Conlon, Carol Mooney, Lorry Zeugner, Kenneth DeBoer and Maren Schulte

Observers in Attendance: Dennis Brown, Douglass Hemphill and Thomas Moe

The meeting was opened at 3 p.m. with a prayer by Prof. O'Meara.

1. Minutes. The minutes of the council meetings of November 17 and December 7, distributed in advance of this meeting, were approved with minor amendments offered by Mr. Zeugner and Prof. Schmitz. The amended versions will be published in *Notre Dame Report*.

2. Announcements. Prof. O'Meara corrected a statement he made at the council meeting of September 29, 1993, by reporting that one appeal was made to the panel of reviewers concerning alleged faculty employment discrimination based upon sex during Academic Year 1992-93. He had mistakenly reported that there were none. Additionally, he informed the council that the Institute for Urban Studies has changed its name to the Urban Institute for Community and Educational Initiatives.

3. Revised Constitutions for the Helen Kellogg and Joan B. Kroc Institutes. (See Attachments A and B.) Fr. Malloy noted that the revisions to be discussed result from council discussions of the October 19, 1993, meeting. Prof. O'Meara noted that the constitutions of both institutes describe the appointments of "fellows," and that the Executive Committee feels that the most suitable process for appointing fellows to the institutes is that described for Special Research Faculty in the Academic Articles. He added that at such time that a general review of the articles is undertaken, consideration might be given to a new category of faculty that better matches the needs and circumstances of institutes and centers.

Prof. Schmitz led the council through the Kellogg Institute document. He pointed out that changes were made in section I.A in response to a council suggestion that a connection be made to the Catholic character of the University. Proceeding, he noted that references to "Departmental Fellows" have been replaced by "Faculty Fellows" to clarify that these are members of the Special Research

Faculty. Language has also been added in Section IV.B to describe the role of the institute's Residential Fellows and establish their equivalency to Visiting Faculty Fellows. In response to previously expressed concerns about the Executive and Academic Directors sharing responsibility for direction of the institute, a statement has been added to Section II.E which provides for review of this structure when either of the incumbent directors is replaced. Prof. Roos asked whether the fellows of the institute have expressed any concern regarding the restricted scope of eligible members for the search committee for new directors. Prof. Schmitz said that he had heard no objections to it. He added that the requirement that three of the five members were to be selected from the Faculty Committee was already in the original version. There are no restrictions now on the selection of the other two members.

There being no further discussion, the motion to approve the constitution of the Helen Kellogg Institute (as presented in Attachment A) was passed without dissent.

Turning to the revised constitution for the Kroc Institute, Prof. Schmitz observed that most of the changes from the version discussed at the October 19 meeting were made for the purpose of clarifying the status and appointment procedures for the fellows of the institute. The changes to election procedures within Section III, he continued, were made at the request of Prof. Raimo Väyrynen, director of institute.

Professors Shephard and Pilkinton felt that the words "the highest standards," appearing twice in the last sentence of that section, are unnecessary, inasmuch as such standards are taken for granted, and he suggested that those words be removed. There appeared to be general agreement, and Fr. Malloy stated that if the leadership of the Kroc Institute has no objection, this change will be incorporated in the final version. (Contacted later by Prof. Schmitz, Prof. Väyrynen expressed no objection to this suggestion which is incorporated in Attachment B.)

There being no further discussion, the revised constitution for the Joan B. Kroc Institute for International Peace Studies (as presented in Attachment B) was approved without dissent.

4. Proposed revision of Article IV.6 regarding elections committees and procedures. (See Attachment C.) Prof. Schmitz reminded the council that a proposed Faculty Senate amendment to Article IV.6 had been discussed during the November 17, 1993, meeting. That discussion had prompted Professors Sheehan and Varma to offer to undertake a revision of the proposal that would reflect the senate's views and make other changes as well. That revision has been reviewed and streamlined by the Executive Committee and is now presented for discussion and approval.

Summarizing the proposed revision, Prof. Varma said that it opens the process to make it possible for all interested faculty to stand for elections. Elections committees within the colleges and college representatives on the University Committee on Elections would be elected by the college councils rather than appointed by the deans. He continued that in contrast to the existing requirement that a candidate win a plurality of votes to be elected, the proposal would require election by a majority. The elections committees would be responsible, he said, to work out any necessary staged or run-off process. Mr. DeBoer observed that because the members of the Special Professional Faculty do not have a representative body, their representative on the University Committee on Elections would be appointed through the Provost's Office. He said that this issue will be raised during a future meeting of Special Professional Faculty to determine whether that group wants to create a representative body. Dean Kolman noted that while many members of the Special Professional Faculty are eligible to vote in college elections, not all are members of a college.

A motion to approve the proposed revision was passed without dissent.

5. Proposed revision of policy regarding the extension of appointment for a primary caregiver. (See Attachment D.) Prof. O'Meara advised the council that the proposed revision gives more time for the primary caregiver to decide whether to have his or her pre-tenure contract extended by a year. Although that extension is a right, the current policy requires the caregiver to state the intention to exercise that right *prior* to the birth of the child. Experience indicates that this policy is too restrictive because parents do not always know what to expect in terms of caregiving until sometime after the child has arrived. For this reason, the Executive Committee recommends that the primary caregiver be given time to announce that decision until six months after the child's arrival.

The revised policy was passed without dissent.

6. Family and Medical Leave policy. (See Attachment E.) Prof. O'Meara informed the council that the Family and Medical Leave Policy, described in Attachment E and required by federal law, will be inserted in the Faculty Handbook. In brief, the policy provides for up to 12 weeks of unpaid leave in the event of individual or family illness.

7. Reports by Standing Committees.

a. Faculty Affairs. Prof. Atassi said that information is being gathered for a committee discussion of issues pertaining to part-time faculty and the promotion process.

b. Graduate Studies. Prof. Roos said that work is continuing on the survey results concerning preparation of graduate assistants involved in teaching. Because the greatest incidence of such graduate assistants appears to be in the College of Arts and Letters, the College of Science and the Freshman Year Program, the Graduate Studies committee will meet with the deans of those units to discuss possible courses of action. The information gathered through the survey will also be shared with all the deans and with the Executive Committee of this council.

c. Undergraduate Studies. Prof. Bonello said that discussion of the student study guide has been added to the committee agenda. Prof. Schmitz added that the Executive Committee has just received a new draft of the proposal for the Center for Teaching and Learning and will probably have it on the agenda for discussion at the next council meeting.

8. Other Items.

Fr. Malloy invited the student members present to inform the council of any matters of special concern from a student perspective. Ms. Schulte commented that there seem to be a larger-than-usual number of student complaints about classrooms being too small for the enrollment. Ms. Friedewald stated that the Student Government intends to carry on discussions of *The Guide*, a student publication that reviews courses and teachers.

Fr. Malloy told the council that he has requested that Kevin Rooney and Joe Russo be invited to a future council meeting to participate in a discussion of the Colloquy recommendations concerning financial aid and the policies pertaining thereto.

Fr. Malloy noted that members of the faculty have now received copies of the various materials that have been forwarded concerning the proposed ordinances on the implementation of *Ex corde Ecclesiae*. He remains confident that the position expressed in those materials is being heard.

Fr. Beauchamp informed the council that the construction of the new building for the College of Business Administration is on schedule for completion in May or June of 1995.

There being no further business, the meeting adjourned at 4:05 p.m.

Respectfully submitted,

Roger A. Schmitz
Secretary of the Academic Council

Attachment A

Helen Kellogg Institute for International Studies Constitution

January 18, 1994

I. General Clauses

A. The Helen Kellogg Institute (HKI) is a pluridisciplinary, non-degree granting institute for international research, education and outreach of the University of Notre Dame. The HKI focuses on a series of thematic areas — related to issues of democracy and development — that are revised periodically. Those thematic areas are deemed to be significant in the context of Latin American and Inter-American affairs, but the HKI does not have an exclusive focus on those regions. The HKI helps to specify and strengthen the Catholic character of the University by embodying the values reflected in Catholic social thought, while at the same time carefully respecting other religious, ethical and intellectual traditions.

B. The HKI is directly responsible to the Provost of the University. The Executive Director and the Academic Director of the HKI report directly to the Provost.

II. Direction of the Institute

A. The Executive and Academic Directors of the HKI are appointed by the President. Their term of appointment is five years, renewable. When an appointment to either directorship is to be made, the Provost constitutes and chairs a Search Committee of five members, at least three of whom are chosen by the Provost from the membership of the Faculty Committee. Approximately six months before the end of a term, the Executive Director and the Academic Director are reviewed by a committee constituted in a similar way, except that the Provost does not chair it.

B. The Executive Director has responsibility for the execution of the budget, staff appointments and other administrative matters.

C. The Academic Director has responsibility for the academic programs of the HKI. Furthermore, upon consultation with the Faculty Committee, the Academic Director appoints the members of the Residential Fellowship, the Seed Money Fund, the Doctoral Dissertation Fellowship, the Publications, and the Library committees, as well as of other committees that, upon recommendation of the Faculty Committee, may be created.

D. The Director of the Latin American Area Studies Program (LAASP) is appointed by the Dean of the College of

Arts and Letters upon recommendation by the Executive and Academic Directors. The term of the Director of LAASP is three years, renewable.

E. In case of overlap of responsibilities, the Executive Director and the Academic Director will have joint responsibility. In case of disagreement between the Executive Director and the Academic Director, whether on the substance of a given decision on an overlapping issue or on the overlapping character of a given issue, the matter will be submitted to the decision of the Provost. This procedure is subject to review and revision in the event of replacement of either of the incumbent Directors.

III. The Steering Committee

A. The Steering Committee consists of the Executive Director, the Academic Director and up to five other members, chosen by the Executive Director and the Academic Director from among the Faculty Fellows of the HKI. The term of the members of the Steering Committee is two years, renewable.

B. The Steering Committee assists and advises the Executive Director and the Academic Director in executive and academic matters pertaining to the ordinary operations of the HKI.

C. The Steering Committee meets when convened by the Academic Director or the Executive Director, or at the request of at least three other members of the Committee.

IV. Faculty Fellows

A. Faculty Fellows of the Institute are members of the University's Special Research Faculty (as described in Academic Article III, Section 1, Subsection b and Section 3, Subsection b) whose academic work is deemed directly relevant to the activities and priorities of the Institute. Upon the recommendation of the Academic Director, in consultation with the Faculty Committee of the Institute, Faculty Fellows are appointed in accordance with the provisions of Academic Article III, Section 4, Subsection b. Faculty Fellows are appointed for a term of five years, renewable. Faculty members who feel their work is directly relevant to the activities and priorities of the Institute will be eligible for an invitation to become Faculty Fellows of the Institute.

B. Residential Fellows from outside the regular Faculty of the University have temporary appointments as Visiting Faculty Fellows in the Institute, typically not exceeding one academic year. Their appointments are intended to advance the mission of the Institute through their initiation of and participation in projects and programs of the Institute, or through independent research deemed sig-

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nificant to the mission of the Institute. Residential Fellows may be identified through open competition or by invitation and are appointed in accordance with applicable procedures in the Academic Articles for Visiting Faculty Fellows upon recommendation of the Directors of the Institute.

C. A meeting of the Faculty Fellows of the Institute will be convoked by the Executive Director and/or the Academic Director at the beginning of each academic semester to discuss the HKI's current activities and future plans.

V. The Faculty Committee

A. The Faculty Committee is the internal advisory body of the Institute. It consists of the members of the Steering Committee and of no fewer than three and no more than six Faculty Fellows who are not members of the Steering Committee. Upon recommendation of the Academic Director (who will consult on this matter with the Steering Committee), the members of the Faculty Committee are appointed by the Provost for a term of two years, renewable.

B. The Faculty Committee reviews and advises the Executive Director and the Academic Director on academic priorities; on the budgetary allocations pertinent to such priorities; on the educational and research programs; on the publications and outreach programs; on the creation, transformation or termination of given activities and committees; on the research initiation proposals that may be submitted by Notre Dame's faculty or students; and on the guidelines to be followed in the Seed Money, Dissertation, and Residential Fellowship competitions.

C. The Faculty Committee may advise the Executive Director and/or the Academic Director on the best procedures for implementation of the tasks mentioned in the preceding paragraph.

D. Normally the Faculty Committee meets once a month during the academic year and is chaired by the Academic Director.

VI. The Advisory Council

A. The Advisory Council of the Institute is composed of distinguished persons outside the University. The Advisory Council advises the President, the Provost and the Institute on matters of overall policy, orientation, personnel, and development of the Institute. The Advisory Council has no fewer than ten and no more than twenty members, including the Chair who is appointed by the President of the University. Members are appointed by the Chair for a renewable term that extends over three meetings of the Advisory Council. Terms shall be stag-

gered so that approximately one-third of the terms expire after each meeting of the Advisory Council.

B. Normally, the Advisory Council meets every third academic semester.

C. The Chair of the Advisory Council may establish Committees deemed useful to the work of the Council.

VII. Amendment of this Constitution

Amendment to this constitution will be proposed by the Academic Director and the Executive Director, upon consultation with the Faculty Committee of the Institute, to the Provost for approval by the Academic Council. In case of disagreement between the Academic Director and Executive Director, paragraph IIE of this constitution will be applicable. In case of a vacancy in one of the Directorships or temporary incapacity of either Director, the remaining Director shall be empowered to advance the proposal for amendment as specified in the first sentence of this paragraph.

Attachment B

The Joan B. Kroc Institute for International Peace Studies Constitution

January 18, 1994

I. The Kroc Institute Purpose

A. Founded in 1986, The Joan B. Kroc Institute for International Peace Studies is a multidisciplinary center for research and teaching which explores the causes and sustaining conditions for national and international violence and peace, the relevance of moral and religious perspectives — with emphasis on the diverse Catholic traditions — to problems of violence and peacemaking, theories and techniques of conflict resolution and social change, and, the relationship among peace, justice and human rights.

B. The Kroc Institute programs involve Faculty Fellows (i.e., members of the Special Research Faculty), Visiting Faculty Fellows, ex-officio representatives from other University entities, Kroc Institute graduate students, undergraduate students in the Concentration in Peace Studies and other faculty and students from University departments. As a University Institute of research and teaching, the Kroc Institute expects its programs to reflect and its participants to maintain academic rigor in their work and to operate with academic freedom.

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II. Administration of the Institute

A. The Director of the Institute will hold the John M. Regan, Jr., Chair. The Regan Director is appointed by the President, with a term of appointment of five years, renewable.

B. The Kroc Institute is directly responsible to the Provost of the University. The Regan Director of the Institute reports directly to the Provost.

In the event of a vacancy in the Regan Directorship, the Search Committee will be composed of four Faculty Fellows, two chosen by the Provost, two elected by the Fellows. The Provost serves as chair of the committee.

In the year prior to the end of the five year term, the Regan Director is reviewed by a Committee selected in the same manner as the Search Committee specified above.

C. Under the Provost the Regan Director has responsibility for the creation and execution of the budget, staff appointments and other administrative matters. The Director represents the Institute and its interests at official University functions, in a voting capacity at consorial and professional associations to which the Institute belongs and directs the fund-raising activities of the Institute.

D. The Regan Director has responsibility for the academic and public outreach programs of the Kroc Institute. In consultation with the Executive Committee, the Regan Director appoints the members and chairs of the Institute Committees, which serve in an advisory capacity to the Regan Director. These Committees include: Undergraduate Advisory, Graduate Advisory, Graduate Admissions, Research, and Publications, as well as of other Committees that, in consultation with the Executive Committee, may be created.

E. In consultation with the Executive Committee the Regan Director appoints the director of the Graduate Program and recommends to the Dean of the College of Arts and Letters a director of the Undergraduate Concentration in Peace Studies. The term of the director of each of these programs is three years, renewable.

F. The director of the Graduate program of the Institute serves as the chief administrator of the graduate admissions process and of the graduate program of the Institute. As such the director develops and coordinates with the Graduate School of the University and the relevant graduate departments the procedures and requirements necessary for completion of the M.A. degree in peace studies, for joint degree programs and for completion of areas of emphasis in peace studies within Ph.D. depart-

ments. The director solicits, approves and coordinates course offerings which will be cross-listed as Institute courses relevant to the graduate degree. The director chairs the Graduate Admissions Committee and the Graduate Advisory Committee of the Institute.

G. The director of Undergraduate Concentration in Peace Studies serves as the chief administrator of the undergraduate program of the Institute. As such the director coordinates with the registrar and the deans of the University the procedures and requirements necessary for completion of the CPS. The director solicits, approves and coordinates course offerings which will be cross-listed as Institute courses relevant to the CPS. The director chairs the Undergraduate Advisory Committee of the Institute.

III. The Executive Committee

A. The Executive Committee includes the Regan Director, the directors of the Concentration and Graduate Programs and four Faculty Fellows, elected by the Fellows of the Institute. The term of the elected members of the Executive Committee is two years, renewable. The terms are so staggered that each year two Fellows are elected to the Committee. The election process shall consist of a first ballot designed to nominate those receiving the four highest vote totals as candidates for the Committee. The Fellows will elect the two members each year from these four. In the event of a tie in the first ballot, those tying will be placed on the second ballot. In the event of a tie in the second ballot, a run-off election will be held.

B. In the case the seat of an elected member of the Executive Committee is vacated before the expiration of the two-year term, the Faculty Fellows will elect, by a single ballot, a replacement for the remainder of the term. In the event of a tie, a run-off election will be arranged.

C. The Executive Committee assists and advises the Regan Director in executive, policy and academic matters pertaining to the general operations of the Kroc Institute, including the basic structure of the budget and the formulation of fund-raising strategies and long-range planning.

D. The Executive Committee shall meet once per month (September through April) in the ordinary course of the academic year.

IV. Committees of the Institute

A. The Institute carries on its research and teaching functions through the work of its five standing committees: Graduate Advisory, Graduate Admissions, Research, Publications and Undergraduate Advisory.

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B. Each committee is composed of at least four Faculty Fellows, who are appointed by the Director in consultation with the Executive Committee. For particular tasks, as the need may arise, the Regan Director may ask non-Fellows to serve on an Institute Committee. Service on an Institute Committee is for one academic year, renewable.

C. In the case of the three committees involving student programs, Graduate Advisory, Graduate Admissions and Undergraduate Advisory, the director of the Graduate program and of the Undergraduate CPS respectively, serve as chair of the relevant committee. The Regan Director, in consultation with the Executive Committee appoints the chair of the Research and the Publications Committees. The Regan Director serves ex-officio on all committees.

D. The Graduate Advisory Committee serves as an advisory body to the Director of the Graduate Program on matters of educational policy, degree requirements and the certification of new courses and faculty for the graduate M.A. program of the Institute. The Committee sends recommendations on policy and degree requirements to the Faculty Fellows meeting for their approval.

E. The Graduate Admissions Committee serves as the advisory body to the Director of the Graduate Program on the admission of applicants to the graduate program for the Master of Arts degree in Peace Studies. The Committee conducts a thorough review of application files of each individual, ensures that fair and due process operates in consideration of all applicants to the program, and recommends candidates for admission based upon the agreed upon standards of the Institute and the University.

F. The Undergraduate Advisory Committee serves as an advisory body to the Director of the Undergraduate Concentration in Peace Studies on matters of educational policy, the Concentration requirements and the certification of new courses and faculty for the CPS. The Committee sends recommendations on policy and concentration requirements to the Faculty Fellows meeting for their approval.

G. The Research Committee stimulates and coordinates the research projects of the Institute. The Committee advises the Regan Director on conferences, Visiting Fellows, proposals for research funding and research priorities of the Institute.

H. The Publications Committee coordinates and administers the publications of the Institute. It advises the Director on the production of other materials, such as annual reports and brochures.

I. As deemed necessary the Regan Director will create ad hoc Committees to further the work of the Institute and will appoint at least four Fellows to each such Committee.

V. The Faculty Fellows

A. Faculty Fellows of the Kroc Institute are members of the University's Special Research Faculty whose teaching and research work relates directly to the substantive activities and priorities of the Institute as specified in Section I. A. Fellows are appointed upon the recommendation of the Director in accordance with the procedures in Academic Article III, Section 4, Subsection b. Nominations of faculty as candidates for Faculty Fellow status will be made to the Executive Committee of the Institute. The Executive Committee will serve in an advisory capacity to the Regan Director in recommending Fellows to the Provost.

B. Faculty Fellows are appointed for three-year terms, renewable. Normally no more than one-third of the Fellows will be new appointees.

C. The primary work of the Fellows is their teaching and research. Fellows are also expected to serve on Institute Committees (as specified in III. and IV.) as requested by the Regan Director.

D. Faculty Fellows meet at least twice each semester as a committee of the whole. Therein they consider matters of curricular policy which emanate from the work of the Undergraduate and Graduate Advisory Committees, the Graduate Admissions Committee and the Executive Committee. Half of the Fellows constitutes a quorum for such business and a majority vote is necessary to pass on matters brought before the Fellows.

E. The Faculty Fellows meeting also serves as a forum for discussions about the goals and directions of the Institute and in order to hear and approve reports of Research, Publications and ad-hoc Committees. The Fellows meeting constitutes an advisory group to the Regan Director of the Institute in discussing and approving the reports of these Committees.

VI. Visiting Fellows

A. The Institute sponsors a program for Visiting Faculty Fellows which brings to the Institute distinguished scholars and leaders in peace studies, public affairs, the religious, education and scientific community. Visiting Fellows are invited to the Institute based on a competitive application process administered by the Regan Director in consultation with the Executive and Research Committees of the Institute.

B. Visiting Faculty Fellows shall be appointed upon the recommendation of the Regan Director for specified terms in accordance with guidelines and procedures in the University's Academic Articles.

VII. Ex-officio Representatives

The Institute can also have ex-officio representatives from other Institutes, Centers, and Programs of the University of Notre Dame whose work is relevant to the Kroc Institute. These representatives have a right to participate in discussions, but are not eligible to vote.

VIII. The Advisory Board

A. The Advisory Board of the Kroc Institute is composed of scholars and leaders in public, religious and scientific affairs outside the University.

The Advisory Board advises the President on a variety of matters related to the continued success of the Institute.

The Advisory Board advises the Regan Director of the Kroc Institute on the quality and direction of the programs of the Institute.

B. The Advisory Board shall have no fewer than ten and no more than twenty members. They are appointed by the President for a renewable term that extends over three meetings of the Council. Terms shall be staggered so that no more than 1/3 of the Board will be new members at a particular meeting.

C. The Chair of the Advisory Board of the Kroc Institute will be appointed by the President after consultation with the Regan Director. The Chair of the Advisory Board shall serve for a term of three meetings, term renewable.

IX. Amendments

Amendments to this Charter normally are brought to the Fellows meeting from the Executive Committee, which shall receive a suggestion for Amendment from either individual Fellows or Institute Committees. An amendment becomes effective with the approval of a 2/3 vote of the Faculty Fellows and the approval of the Academic Council.

Attachment C

Proposed Revision of Article IV.6

(In the following text, proposed deletions from the current version are ~~struck through~~, and proposed insertions are enclosed in [brackets].)

Article IV

Section 6/Elections Committees and Procedures

From each College faculty, from the Law School faculty, and from the Library faculty, the appropriate ~~Dean or Director~~ [Council or representative body] annually ~~appoints~~ [elects] an Elections Committee. [This Committee solicits interest from the College, School or Library faculty in standing for election. The election slate consists of all faculty showing such interest, as well as others nominated by the Committee and willing to serve.] Except when otherwise provided by these Academic Articles, faculty members to be elected to Committees of the University, of the College or of the Library are ~~nominated by this committee and~~ elected by the regular faculty of the College, School, or Library.

The University Committee on Elections, consisting of one member ~~selected by the appropriate Dean or Director~~ [elected by the appropriate Council or representative body] from each of the Elections Committees and one member of the Special Professional Faculty selected by the Provost's office, conducts elections for University at-large positions.

~~No fewer than two candidates, all of whom have expressed willingness to serve, are nominated for each position. A timely petition of ten members of the regular faculty suffices to add a name to the ballot.~~ Each ballot contains appropriate biographical information and allowance for write-in votes. A ~~plurality~~ [majority] of votes elects.

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Attachment D

Proposed revision of the policy regarding The Extension of Appointment for Primary Caregiver

(The current version of this policy is in the *University Handbook*, under *University Policies*, on page 70 in the 1993 edition. In the following text, insertions are enclosed in [brackets], and deletions are ~~struck through~~.)

Extension of Appointment for Primary Caregiver

A three-year appointment of an untenured member of the Teaching-and-Research Faculty is extended one year in connection with the arrival of that faculty member's newborn or adopted child if: (1) the arrival occurs either (a) prior to November 1 of the appointment's third year, or (b) after November 1 of the final year of a previous, contiguous appointment; (2) the faculty member, [preferably] prior to the child's arrival [but no later than six months after arrival], elects such an extension by notifying the departmental chairperson in writing that the faculty member intends to act as the child's primary caregiver during the year following the child's arrival; and (3) the faculty member acts as the primary caregiver during the year following the child's arrival.

Each three-year appointment may be extended only once pursuant to this policy. Nothing in this policy entitles a faculty member to any reappointment. The probationary periods specified in Article III, Section 5(a) of the Academic Articles are increased by one year for each appointment extended under this policy, provided that in no event is a probationary period increased, under this policy or otherwise, more than a total of two years.

Attachment E

Family and Medical Leave

The University permits *regular* faculty to take *unpaid leave* for personal medical reasons, for the birth, adoption or foster care placement of a child and to care for a child, spouse or parent who has a serious health condition. All leaves are provided consistent with the provisions of the Family and Medical Leave Act of 1993 (FMLA).

Faculty may be granted a maximum of twelve (12) weeks of leave in any twelve (12) month period.

Leave for a newborn child or for adoption or foster care placement of a child must be completed within twelve (12) months of the birth, adoption or placement.

Leave for a serious health condition (for a seriously ill child, spouse or parent or the individual's own condition) may be taken intermittently or on a reduced time basis but *only if certified by a health care provider* as needed for medical reasons.

If both husband and wife are employees of the University, they may take a combined total of twelve (12) weeks of leave between them for the birth or placement of a child or to care for a parent with a serious health condition. For an ill spouse or child or for a faculty member's own serious health condition, a husband and wife each have twelve (12) weeks of Family and Medical Leave.

Request for Family and Medical Leave

Any faculty member wishing an absence to be considered as a Family and Medical Leave must provide the University with sufficient information to support a determination that the leave qualifies as a Family and Medical Leave. Family and Medical Leave Request forms are available from the Department of Human Resources.

When possible, requests for leave qualifying as a *Family and Medical Leave* must be made at least (30) days prior to the first date of the requested leave. Requests should be made to the Department Chairperson.

Faculty Senate Journal February 9, 1994

The chair Prof. Richard Sheehan called the meeting to order at 7:05 p.m. in room 202 of the Center for Continuing Education and asked Prof. Charles Parnell to offer a prayer. The Faculty Senate then paid tribute to the late professor Lucy Pilkinton, recently deceased. Prof. Jerry Wei spoke in her honor; his remarks are printed as appendix A of this journal and will be transmitted to her family, the provost and the University Archives, as is the custom of the senate.

In his chair's report, Sheehan announced that one senator had not fulfilled the bylaws attendance requirement, and the chair will take the action mandated by the rules of the senate. In addition, an election has been scheduled in the College of Arts and Letters to fill an open position in their representation. Also the senate has received notice that our elected faculty position on the Faculty/Student Committee on Women is open because of a campus withdrawal. The senate should fill that spot immediately, and the chair asked for suggestions and nominations. Prof. William Eagan said that in the past the person with the next highest vote total would be asked to serve, and the secretary said he would report on that later in the meeting. An opening exists too on the Campus Life Council, according to Prof. James Collins who serves as a senate representative to the body; he believed an immediate addition would be helpful.

The senate then turned to an executive committee resolution (no second needed) that resulted from the discussion at the last meeting of allegations that the University succumbed to certain pressures which would seem to be inappropriate in a number of potential academic appointments. Parliamentarian Eagan reported to the chair that under Robert's Rules of Order each senator would normally be allowed to speak once on a motion. The chair responded that the give and take of discussion was important, and he would not like to impose such a ruling in the senate. The senate proceeded to take up the resolution.

Wei asked how the phrase "those not directly involved [with the academic appointments and promotions process]" should be interpreted. Prof. Frank Connolly, although sympathetic to the spirit of the motion, felt the current wording was vague. Sheehan, responding to Wei, recalled the consternation among some senators about the reported interference of the local ordinary in a possible appointment; this resolution was meant to underscore the senate's feeling that this should not happen. Prof. Gerald Bradley was struck by the resolution's attempt to preclude such a future instance by stating a too-

broad prohibition, one that might be interpreted to mean that references from outside the University by qualified but non-invited scholars would be banned. This should be considered and re-written. Prof. Joan Brennecke asked what purpose the resolution was to serve. The chair added that another question should be, to whom should the senate send the resolution if it passes? Since the resolution did not have much bite or real efficacy, Prof. Phillip Quinn did not find its vagueness troubling. Its adoption would be seen as a formal expression of the faculty's distress; its passage could not hurt.

Prof. Richard McBrien said he might have been one to support such a resolution, but not this one which was badly formulated and might even be counter-productive. If the senate wished to articulate a position on this important matter, it should be done correctly so that it cannot be easily dismissed. Since he did not want to defeat the resolution, he moved to recommit it to the executive committee for reformulation in light of the concerns some senators had expressed and over the verbal loopholes in the resolution, and have it reported back to the senate at its next meeting.

Quinn seconded the motion to recommit. Prof. John Borkowski agreed, but asked if a letter from the chair would not be able to convey the subtleties and concerns we feel; the resolution lacks these, and perhaps would not be needed if a letter would do the job of expressing our view. Speaking against the motion to recommit, Prof. Paula Higgins said the executive committee purposely left the original motion vague to elicit senate discussion and perhaps re-wording. But to Prof. George Lopez, a large body such as the senate is never at its best re-writing a resolution; he supported McBrien, and asked that the resolution include references to the University's Academic Articles and to AAUP guidelines. Connolly spoke in favor of recommitment, but asked Borkowski where such a letter as he referred to would go. Borkowski said to the president and provost.

Prof. Mario Borelli believed the executive committee now knew the senate's sentiments, and should be able to report a different form of the resolution at the next meeting; he supported recommitment. Any cover letter should be short, and only convey the resolution not elaborate on it. For Prof. Wilson Miscamble, C.S.C., the imprecision and poor wording would lead to individual or personal interpretations of the resolution that might well be at variance with the overall feeling of the senate; in fact opposing interpretations might be drawn on the same issue, such as the one which sparked the resolution in the first place. It may be a criticism of Notre Dame faculty members as much as it is of a bishop. He supported the resolution to recommit and asked the executive committee to write it

honestly and truthfully. Prof. Henry Weinfield wondered that, if AAUP guidelines are in place and Academic Articles procedures are in place, do we need a resolution at all?

Eagan called the question and the senate agreed to vote on the move to recommit. The motion passed unanimously. The senate then broke for committee meetings at 7:30 p.m.

When the senate reconvened at 8:30 p.m., the chair asked to complete a few items left from his earlier report. On the matter of the Campus Life Council, Prof. Joan Brenneke agreed to serve on that body, and the senate voted unanimously for this (moved by M. Borelli, seconded by Miscamble). On the Faculty/Student Women's Committee, the chair will ask Prof. Barbara Turpin to serve for this semester. At the next meeting of the Academic Council, a proposal for a University teaching center will be discussed.

Standing Committees

1. Academic Affairs — co-chair Prof. Sonja Jordan announced that the committee will meet at noon at Greenfield's on February 15 and 22, and April 5 to discuss the responses to its request for information on departmental action on the Catholic character issue. In its report, the committee will incorporate some thoughts on Colloquy recommendation #1. It will also monitor progress on the proposal for a teaching center. The committee endorsed the Sporleder safe bike paths initiative.

The committee had been charged early in the year, taken up by its co-chair Prof. David Burrell, C.S.C., with preparing a senate response to the Colloquy. It has found little time to do this and would like to turn this back to the senate for other action. Porter was distressed at this news, at this late time in the year; the committee chair had agreed to do this, and it will be difficult for anyone else to take it up now. Eagan asked if such a report had been asked for by an outside source or was it a senate response? Jordan reported that it was indeed a senate initiative in reaction to strong concerns and reservations expressed in the senate and by faculty members in general. The senate charged the committee with detailing the academically-oriented objections to the Colloquy report, after its chair had volunteered the committee's efforts in lieu of a special task force. But the committee had not had an opportunity to get to this because of the pace of its other work in progress. Porter agreed with this review, adding that it was at the suggestion of Prof. Michael Detlefsen that the original motion was made, in three parts, none of which has been acted upon. She urged the senate to be accountable to itself and its constituents before seeking accountability of the administration.

Sheehan suggested that the task force idea could still be implemented. Porter so moved, and Prof. Paula Higgins seconded. In the discussion on this, Lopez pointed out that the year is passing, and an accrediting committee was due on campus soon; he urged a report at some date certain. Prof. Umesh Garg, stating that institutional memories may be short, asked that faculty members with special concerns about the Colloquy report communicate these to the task force as soon as possible, if one is set up. Jordan said the various senate journals, especially of last year's special meetings, would be helpful. Borelli wanted to know who would be on the task force. Porter responded that her motion, referring back to Detlefsen's original, was that appointment was at the discretion of the chair. Sheehan said if the motion passed, he would ask Porter to chair the task force. Quinn, as a friendly amendment, asked for the report to be delivered to the senate by the end of its current year. Sheehan broadened the discussion by saying the Colloquy was for re-accreditation and also for a future fund-raising campaign. Porter was happy to take on this assignment, but said it was little more than a gesture to prepare such a report. However, it was important to adhere to the spirit of the original motion, and she asked for the support of other senators and faculty members in making such a report. Higgins re-iterated that the senate has to take itself more seriously. The motion for a task force passed, with no negative votes and two abstentions. Porter stated the task force would have a report to the senate by the end of the year. The other members of the committee will be announced shortly.

2. Administrative Affairs — the chair Higgins reported on three matters. First, a subgroup is looking at the tenure appeals process here and is getting information from peer institutions and the AAUP. Second, another group is looking at the operation and procedures of the Faculty Board in Control of Athletics, especially in matters of possible conflicts of interests with regard to certain "perks." Third, there is another group looking at an overhaul of the senate's bylaws; connected to this is a look at faculty governance structures, especially in regard to accountability. Eagan as parliamentarian pointed out that any senate vote on the bylaws must be announced a full ten (10) days before the date of such a vote. Higgins thought recommendations and resolutions would be forthcoming at a later meeting.

3. Benefits — chair Prof. John Affleck-Graves reported that the Human Resources Department has provided requested information on retirement which the committee is studying. The group turned to the results of the faculty survey on salaries which was discussed in committee; they asked for responses for improvement before mailing to the faculty at large. Of 354 responses, 21 percent did not favor disclosure of salary information, 75 percent fa-

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vored it, 2 percent were indifferent and a few ballots were unusable. Affleck-Graves and Sheehan went through the tables, asked for comments, and said before the general faculty received the full report, they would review it again with the senate. Questions arose over the question of including the special professional faculty in the survey. As part of the regular faculty, Sheehan felt they should be included, especially in view of the differences in pay rates that have grown over the years; the University has to address this disparity. Prof. Angela Borelli strongly supported his position and gave further voice to the frustration often felt by members of this faculty. There should be found a way to include them, in spite of some difficulty. She thought the low response rate resulted directly from the frustration and historic discrimination felt by these faculty members, who number almost 200. Affleck-Graves and Sheehan agreed to report the responses as received, and would consider further steps to elicit information from these faculty members.

For Prof. Edward Vasta this survey and the faculty response were a historic breakthrough for us. He congratulated the committee for its work and saw the survey as a sign that the faculty was coming together to take responsibility for each other. Parnell asked if the committee would be conducting a salary information survey among the emeriti; Affleck-Graves was looking into it and wondered how such an instrument might be structured. Parnell offered to assist in this; he thought asking the person's final salary upon retirement and how that has changed would be starting points. Sheehan made two further points because we had received responses from two part-time instructors which showed incredibly low salary levels: the situation of adjunct as well as special professional faculty must be looked at; and a survey like this on a continuing basis would elicit greater response rates year after year, as faculty become accustomed to it. The chair thanked the committee for its work and asked them to take into consideration the points raised in the discussion.

4. Student Affairs — chair Prof. James Collins reported that the future of the women's resource center was in jeopardy because of funding problems, lack of University status and the possible outcome of the student body elections. The center is formulating a new proposal for recognition and will present it to the committee for endorsement by the senate.

On the matter of the Ad-hoc Committee on Senate Restructuring, he reported that fact-finding at our peer institutions continues, and is waiting for the return of questionnaires from a few senators. The provost has agreed to bring in an external evaluator to review us; if anyone has suggestions for people we might propose, please let

Collins know their names. In response to Eagan's question, Collins said the evaluator will be chosen from a list we compile, from which the senate would choose one and the provost another.

Prof. Louise Litzinger reported that the ad-hoc committee on women's concerns would prepare a resolution for the March meeting.

Old Business

Prof. Frank Connolly moved to reconsider the senate's earlier action in returning the motion on academic appointments to the executive committee. There being no second, the motion was not allowed to stand.

New Business

None.

Borelli moved for adjournment, Jordan seconded, and the senate agreed at 9:32 p.m.

Present: Affleck-Graves, Atassi, Bender, Borelli, A., Borelli, M., Borkowski, Bottei, Bradley, Brennecke, Brownstein, Cashore, Collins, Connolly, Eagan, Garg, Goetz, Hamburg, Higgins, Jordan, S., Litzinger, Lombardo, Lopez, McBrien, Miscamble, Moe, Parnell, Porter, Quinn, Serianni, Sheehan, Sporleder, Tomasch, Vasta, Wei, Weinfield, Yost

Absent: Callahan, Coll, Esch, Goetz, Hayes, Jenkins, Kantor, Meyerson, Miller, Ruccio, Sauer, Stevenson, Weithman

Excused: Burrell, Conway, Detlefsen, Simon

Sincerely,

Peter J. Lombardo Jr.
Secretary

Appendix A

Memorial Minute Tribute to Lucy Pilkinton

It was a Thursday morning, two weeks ago as I was walking to my class and getting ready to teach when an MBA student stopped me and asked if he could take a minute for an announcement to the class. I said sure. His announcement came as a shock to the whole class; all the joking stopped and the tears started. The news was about Lucy Pilkinton who had died suddenly after collapsing in her class the day before.

I knew Lucy through word-of-mouth, through the word-of-mouth of her students. She was an adjunct professor who taught business communications to MBA students so they would write and speak better. I think the group which received the most benefit from her teaching was the international students, who, when they first come to this country, may have a problem in communication. I talked to a few students whom I know about Lucy's passing away, and I was really impressed with the care and dedication she showed to her students. One time I met her in the hallway and we chatted about these international students. More than ten years ago I was in their place as an international student. She was able to tell me the names of her students and the particular weakness each one had in speech or writing, plus the habits and terms from the different language backgrounds that each one liked to use. She also knew how much progress each one had made since the start of the semester.

To me, Lucy was only an adjunct professor who didn't even have her own office (she and about ten adjuncts shared one office); she did not hold a significant position or have a great status here. However, she demonstrated to me very well that she could do a wonderful job in her position to benefit her students.

Today I miss her. She was a big role model to me in the way she taught and in the way she cared about students.

Professor Jerry Wei
February 9, 1994

Reverend Paul J. Foik Award

The Reverend Paul J. Foik Award Committee invites nominees for the award, which is given annually to a library faculty member who has contributed significantly to library service to the Notre Dame community or to the library profession through personal scholarship or involvement in professional associations. The award is named for the Holy Cross priest who served as director of Notre Dame's library from 1912 to 1924 and was a leading figure in the library profession in the first quarter of the 20th century. It is among those announced at the president's faculty dinner in May. Previous winners have been Maureen Gleason, deputy director; Robert Havlik, engineering librarian emeritus; and Joseph Huebner, head of Collection Development.

All members of the University Libraries' and Law Library faculty with two or more years' tenure are eligible. Please send names of nominees, including justification, to the Reverend Paul J. Foik Award Committee, c/o Thomas A. Werge, 356 O'Shaughnessy, by April 15.

THE GRADUATE SCHOOL OFFICE OF RESEARCH

Current Publications and Other Scholarly Works

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

COLLEGE OF ARTS AND LETTERS

Classical and Oriental Languages and Literatures

Fukuchi, Isamu

- I. Fukuchi. 1993. Kokoro and the Spirit of Meiji. *Monumenta Nipponica* 48(4):469-488.

Economics

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- W.A. O'Rourke. 1994. Morris Captures Those Glory Days. Review of *New York Days*, by W. Morris. *The South Bend Tribune* (01/23/94):E9.
- W.A. O'Rourke. 1994. NOTTS: Chapter I. *Arts Indiana* 16(1):8-10.

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Doering, Bernard E.

- B.E. Doering. 1994. The Philosopher and The Provocateur: The Correspondence of Jacques Maritain and Saul Alinsky. University of Notre Dame Press, Notre Dame, Indiana. xxxviii + 118 pp.

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Cunningham, Lawrence S.

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K.J. Egan. 1993. Medieval Carmelite Houses: England and Wales, pp. 1-85; An Essay Toward a Historiography of the Origin of the Carmelite Province in England, pp. 86-119; Dating English Carmelite Foundations, pp. 120-142; Medieval Carmelite Houses: Scotland, pp. 143-148 in, P. Fitzgerald-Lombard, eds., *Carmel in Britain: Essays on the Medieval English Carmelite Province*. Institutum Carmelitanum, Rome, Italy.

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Physics

Biswas, Nripendra N.

V. Balamurali, N. Biswas, J. Jaques, R. Kehoe, M. Kelly, R.C. Ruchti, J. Warchol and M.R. Wayne, et al., Notre Dame (DØ Collaboration). 1994. First Generation Leptoquark Search in pp Collisions at $\sqrt{s} = 1.8$ TeV. *Physical Review Letters* 72:965-969.

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Ruchti, Randal C.

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Wayne, Mitchell R.

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COLLEGE OF ENGINEERING

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J.C. Kantor and B.F. Spencer, Jr. 1993. On Real Parameter Stability Margins and their Computation. *International Journal on Control* 57:453-462.

Civil Engineering and Geological Sciences

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R.L. Kolar, W.G. Gray, J.J. Westerink and R.A. Luettich, Jr. 1994. Shallow Water Modeling in Spherical Coordinates: Equation Formulation, Numerical Implementation, and Application. *Journal of Hydraulic Research* 32(1):3-24.

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Lent, Craig S.

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Michel, Anthony N.

See under Wang, Kaining. 1994. *IEEE Transactions on Circuits and Systems* 41:24-32.

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See under College of Science, Mathematics; Rosenthal, Joachim J. 1994. *Circuits Systems Signal Process* 13(2-3):295-308.

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COLLEGE OF BUSINESS ADMINISTRATION

Finance and Business Economics

Bergstrand, Jeffrey H.

J.H. Bergstrand, T.F. Cosimano, J.W. Houck and R.G. Sheehan, eds. 1994. *The Changing Distribution of Income in an Open U.S. Economy*. Elsevier Science Publishers, Amsterdam, The Netherlands. 385 pp.

J.H. Bergstrand, T.F. Cosimano, J.W. Houck and R.G. Sheehan. 1994. The Scope, Growth and Causes of Income Inequality in an Open U.S. Economy. Pages 3-27 in, J.H. Bergstrand, T.F. Cosimano, J.W. Houck and R.G. Sheehan, eds. *The Changing Distribution of Income in an Open U.S. Economy*, Amsterdam, The Netherlands.

Cosimano, Thomas F.

See under Bergstrand, Jeffrey H. 1994. Pages 3-27 in, *The Changing Distribution of Income in an Open U.S. Economy*.

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Sheehan, Richard G.

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Management

Houck, John W.

See under Finance and Business Economics; Bergstrand, Jeffrey H. 1994. Pages 3-27 in, *The Changing Distribution of Income in an Open U.S. Economy*.

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LAW SCHOOL

Barrett, Matthew J.

M.J. Barrett. 1994. Can the Government Change Tax Laws Retroactively. *Preview of United States Supreme Court Cases* (5):177-180.

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THE GRADUATE SCHOOL OFFICE OF RESEARCH

RADIATION LABORATORY

Ferraudi, Guillermo J.

G.J. Ferraudi, T. Nyokong, M. Feliz, M. Perkovic and D.P. Rillema. 1994. Redox Reactions of an Mo(V) Tetrasulfophthalocyanine. *Inorganica Chimica Acta* 215:27-32.

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SCHOOL OF ARCHITECTURE

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THE GRADUATE SCHOOL OFFICE OF RESEARCH

Awards Received and Proposals Submitted

In the period February 1, 1994, through February 28, 1994

AWARDS RECEIVED

| Category | Renewal | | New | | Total | |
|--------------------------|----------|-----------|----------|---------------|----------|---------------|
| | No. | Amount | No. | Amount | No. | Amount |
| Research | 7 | 4,081,532 | 3 | 135,663 | 10 | 4,217,195 |
| Facilities and Equipment | 0 | 0 | 0 | 0 | 0 | 0 |
| Instructional Programs | 1 | 327,674 | 0 | 0 | 1 | 327,674 |
| Service Programs | 0 | 0 | 0 | 0 | 0 | 0 |
| Other Programs | <u>0</u> | <u>0</u> | <u>1</u> | <u>50,683</u> | <u>1</u> | <u>50,683</u> |
| Total | 8 | 4,409,206 | 4 | 186,346 | 12 | 4,595,552 |

PROPOSALS SUBMITTED

| Category | Renewal | | New | | Total | |
|--------------------------|----------|----------|----------|----------------|----------|----------------|
| | No. | Amount | No. | Amount | No. | Amount |
| Research | 4 | 667,927 | 14 | 2,587,417 | 18 | 3,255,344 |
| Facilities and Equipment | 1 | 80,000 | 0 | 0 | 1 | 80,000 |
| Instructional Programs | 0 | 0 | 3 | 1,936,192 | 3 | 1,936,192 |
| Service Programs | 0 | 0 | 0 | 0 | 0 | 0 |
| Other Programs | <u>0</u> | <u>0</u> | <u>3</u> | <u>179,153</u> | <u>3</u> | <u>179,153</u> |
| Total | 5 | 747,927 | 20 | 4,702,762 | 25 | 5,450,689 |

THE GRADUATE SCHOOL OFFICE OF RESEARCH

Awards Received

In the period February 1, 1994, through February 28, 1994

AWARDS FOR RESEARCH

Aerospace and Mechanical Engineering

Atassi, H.
Aerodynamics and Aeroacoustics of Nonuniform Flows
NASA - Lewis Research Center
\$117,657 12 months

Batill, S.
Wind Tunnel Data System Accuracy Assessment
NASA - Lewis Research Center
\$10,663 9 months

Civil Engineering and Geological Sciences

Gray, K.
Evaluation of Drinking Water Treatment Processes
Environmental Protection Agency
\$75,000 24 months

Gray, K.
Radiolytic Destruction of Dioxin on Soils
Oxychem Technology Center
\$47,513 91 months

Chemistry and Biochemistry

Pasto, D.
Additions to Chiral Allenes
ACS Petroleum Research Fund
\$50,000 27 months

Electrical Engineering

Sauer, K.
3-D Statistical Tomographic NDT
Electricité de France
\$67,692 18 months

Physics

Furdyna, J.
Strain and Ordering in II-VI Semiconductors
Department of the Navy
\$135,000 57 months

Newman, K.
Structural Properties and Phase Diagrams of Semiconductors
Department of the Navy
\$26,000 46 months

Livingston, A.
Highly Charged Ions in Electron Beam Ion Trap — Supplement
National Institute of Standards and Technology
\$5,670 12 months

Radiation Laboratory

Schuler, R.
Effects of Radiation on Matter
Department of Energy
\$3,682,000 12 months

AWARDS FOR INSTRUCTIONAL PROGRAMS

Center for Educational Opportunity

Blake-Smith, D., Smith, R.
Upward Bound
Department of Education
\$327,674 12 months

AWARDS FOR OTHER PROGRAMS

O.S.I.P.A.

Borelli, M.
Notre Dame Science/Engineering for Talented Seniors
National Science Foundation
\$50,683 24 months

Proposals Submitted

In the period February 1, 1994, through February 28, 1994

PROPOSALS FOR RESEARCH

Aerospace and Mechanical Engineering

Paolucci, S.
Stability of Flow Arising in Chemical Vapor Deposition
National Science Foundation
\$222,967 36 months

Thomas, F., Nelson, R.
Research Analysis of High-Lift System "Building Block Flows"
NASA - Ames Research Center
\$97,843 12 months

Jumper, E.
Fluid-Optic Augmentation
Department of the Air Force
\$83,330 24 months

THE GRADUATE SCHOOL OFFICE OF RESEARCH

Biological Sciences

- Adams, J.
Molecular Analysis of Apical Organelles of Plasmodium
National Institutes of Health
\$511,098 60 months
- Mossing, M.
Structure and Function of Cro Variants
National Institutes of Health
\$177,603 12 months
- Eldon, E.
Does the Drosophila 18-Wheeler Gene Play a Role in
Immunity?
Oak Ridge Associate University
\$10,000 12 months

Civil Engineering and Geological Sciences

- Spencer, B.
Aircraft Wheel Life Prediction and Assessment
Systems Research Labs, Inc.
\$107,153 7 months

Chemistry and Biochemistry

- Keller, J.
New Photochemical Probes of Chlorine Dioxide
Oak Ridge Associate University
\$10,894 12 months
- Smith, B.
Prodrugs and Carriers of Nucleotide Monophosphates
National Institutes of Health
\$141,678 12 months
- Scheidt, W.
X-Ray and Chemical Studies of Metalloporphyrins
National Institutes of Health
\$304,959 12 months

Computer Science and Engineering

- Sha, H.
Timing Optimization for Scientific Applications
Oak Ridge Associate University
\$31,572 12 months

Electrical Engineering

- Lemmon, M., Antsaklis, P.
Fast Algorithms for Hybrid Control System Design
Department of the Army
\$276,598 36 months
- Bernstein, G., Porod, W., et al.
Electromigration in Mesoscopic Interconnects
Department of the Air Force
\$747,874 36 months

Government and International Studies

- Saiz, M.
Race and Public Policy in the American States
National Science Foundation
\$16,450 12 months

Physics

- Glazier, J., Boyd, S.
Architecture of Neural Computation
McDonnell-Pew Program
\$71,670 24 months

Psychology

- Bergeman, C.
Serotonin and Impulsive Aggression: A Twin Study
Medical College of Pennsylvania
\$72,391 36 months
- Cole, D.
Competency-Based Model of Depression
National Institutes of Health
\$102,035 12 months

College of Science

- Kulpa, C.
Walther Cancer Research Fellows Program
Walther Cancer Institute
\$269,229 24 months

PROPOSALS FOR FACILITIES AND EQUIPMENT

Physics

- Cason, N., LoSecco, J., et al.
Equipment for Brookhaven Experiment E-852
Brookhaven National Laboratory
\$80,000 12 months

PROPOSALS FOR INSTRUCTIONAL PROGRAMS

Aerospace and Mechanical Engineering

- Skaar, S., Sen, M., et al.
Graduate Support - Advanced Manufacturing
Technician in Mechanical Engineering
Department of Engineering
\$1,181,620 36 months

Civil Engineering and Geological Sciences

- Silliman, S.
GAANNP Research Fellowship in CE/GEOS
Department of Education
\$748,572 36 months

THE GRADUATE SCHOOL OFFICE OF RESEARCH

Physics

Glazier, J.
NYI Supplement for Disabled Undergraduate
National Science Foundation
\$6,000 10 months

PROPOSALS FOR OTHER PROGRAMS

Educational Talent Search

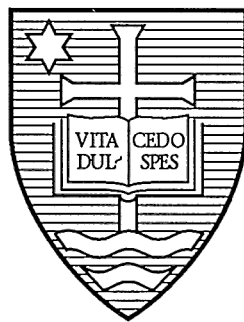
Outlaw, W., Smith, R., et al.
Pre-Employment Orientation
Workforce Development Series
\$46,860 5 months

History

Nugent, W.
New Themes in Western History
National Endowment for the Humanities
\$70,684 12 months

Program of Liberal Studies

Sloan, P.
Controlling our Destinies
National Institutes of Health
\$61,609 18 months



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