

# NOTRE DAME REPORT

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## Honorary Degree Recipients Announced

German President Roman Herzog, Supreme Court Justice Antonin Scalia, Pulitzer Prize-winning poet Rita Dove and former head football coach Ara Parseghian are among the 12 distinguished national and international figures who will receive honorary degrees at Notre Dame's 152nd Commencement exercises. Degrees will be conferred on the honorees and some 1,800 undergraduate and 550 advanced degree candidates.

Mark Shields, syndicated columnist and political analyst, will be the principal Commencement speaker and also will receive an honorary degree, and the University will present the 1997 Laetare Medal to Mexican-American theologian Rev. Virgil Elizondo.

In addition to Shields, the honorary degree recipients are:

David Billington, professor of civil engineering and operations research, Princeton University, doctor of engineering. A 1950 graduate of Princeton, Billington has taught and conducted research at his alma mater since 1960 and has served as director of the Program in Architecture and Engineering since 1990. He is recognized as a national leader in developing interdisciplinary curricula and in 1995 was honored by the Carnegie Foundation as one of the outstanding professors in higher education. He was elected a member of the National Academy of Engineering in 1986 and served as chair of the American Society of Civil Engineering from 1978 to 1985.

Sister Rosemary Connelly, R.S.M., executive director, Misericordia/Heart of Mercy Center, doctor of laws. A member of the Religious Sisters of Mercy, Connelly directs both Misericordia and Heart of Mercy Center, Chicago-area agencies that provide loving, challenging and dignified environments to more than 500 children and adults with mental and physical disabilities. A graduate of Saint Xavier's College of Chicago, she holds master's degrees in sociology and social work from St. Louis and Loyola Universities, respectively. She has received more than two dozen awards for humanitarian service from local, regional and national organizations, including the Kennedy Foundation, the American College of Physicians and Catholic Theological Union.

Rita Dove, Commonwealth Professor of English, University of Virginia, doctor of letters. One of the nation's most highly regarded poets, Dove served as poet laureate of the United States from 1993 to 1995 and won a Pulitzer Prize in 1987 for the poetry collection, *Thomas and Beulah*. A member of the Virginia faculty since 1989, she is the author of six collections of poetry, a collection of short stories, a novel and a play. Most recently, she re-

ceived a 1996 Charles Frankel Prize for leadership in the humanities from President and Mrs. Clinton in ceremonies earlier this year.

Roman Herzog, federal president, Republic of Germany, doctor of laws. Herzog was elected Germany's seventh president at the May 1994 federal convention. Trained in jurisprudence, he was an eminent scholar of public and constitutional law before entering politics. He held a series of political posts at the state level throughout the 1970s and early 1980s, then served from 1983 to 1994 as vice president, then president of the Federal Constitutional Court. Though the federal presidency is chiefly ceremonial in nature, Herzog has used the position to encourage personal responsibility, diversity in the unified republic, tax reform and European integration.

Leon Lederman, director emeritus, Fermi National Accelerator Laboratory, and Pritzker Professor of Science, Illinois Institute of Technology, doctor of science. An internationally renowned physicist for more than 40 years, Lederman has played an integral role in the discoveries of the long-lived K-meson particle, the "bottom quark," and the muon neutrino. For the muon discovery, which provided the first evidence of the existence of more than one neutrino (a particle with almost zero mass), he was awarded the 1988 Nobel Prize in physics. He taught and conducted research for 28 years at Columbia University, directed the Fermi Lab in Batavia, Ill., from 1978 to 1989, and most recently has taught at the University of Chicago and IIT.

Cardinal Adam Maida, archbishop of Detroit, doctor of laws. Named archbishop of Detroit by Pope John Paul II in 1990 and elevated to cardinal four years later, Maida has spoken forcefully against racism and assisted suicide and in support of ecumenism and the rights of immigrants. He earned a bachelor's degree in philosophy from St. Vincent's College in 1952 and was ordained a priest in 1956. He was graduated that same year from Saint Mary's University with a licentiate in sacred theology. He received a licentiate in canon law from the Pontifical Lateran University in Rome in 1960 and a law degree from Duquesne Law School in 1964. Prior to his appointment in Detroit, he was bishop of the Diocese of Green Bay, Wis.

Arthur C. Martinez, chairman and chief executive officer, Sears, Roebuck and Co., doctor of laws. Martinez was appointed the 12th chairman of Sears, Roebuck and Co. in August 1995 after serving the previous three years as chair and CEO of the 110-year-old company's retail division. He moved to Sears from Saks Fifth Avenue, where he was vice chairman and a member of the board of directors. Throughout a 37-year business career he also has held administrative positions with BATUS, Inc., RCA Cor-

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poration, Talley Industries, International Paper Company and Exxon Chemical Company. A graduate of Polytechnic University, whose board of trustees he now chairs, he holds a master's of business administration degree from Harvard University. He serves on numerous Chicago-area corporate and civic boards.

Barry Munitz, chancellor, California State University System, doctor of laws. As chief executive officer of the nation's largest senior system of public higher education, Munitz oversees 23 campuses with 336,000 students and more than 33,000 faculty and staff. He is immediate past chair of the American Council on Education and on the Business-Higher Education Forum and the board of Campus Compact. He holds a bachelor's degree in classics and comparative literature from Brooklyn College and a doctorate in comparative literature from Princeton University. Prior to being named chancellor in 1991, he held administrative and faculty appointments at the Universities of Houston and Illinois and was vice chair of the Houston firm MAXXAM Inc.

Ara Parseghian, founder of the Ara Parseghian Medical Research Foundation and Notre Dame head football coach from 1964 to 1974, doctor of laws. Through his foundation, Parseghian has dedicated his life to the discovery of a cure for Niemann-Pick Type C disease, a rare and fatal genetic disorder that struck three of his grandchildren — including Michael, who died March 22 at age 9. The foundation has raised some \$5 million since 1994 and scientists supported by the funds reportedly are making rapid progress. Named head coach at Notre Dame in 1964, Parseghian restored Irish football to national prominence and won two consensus national championships. He was elected a member of the National Football Foundation Hall of Fame in 1980.

Antonin Scalia, associate justice, U.S. Supreme Court, doctor of laws. Nominated to the Supreme Court by President Reagan, Scalia took the oath of office in September 1986, after sitting for five years on the U.S. Court of Appeals for the District of Columbia Circuit. A graduate of the Harvard Law School, he earned his bachelor's degree from Georgetown University and the University of Fribourg in Switzerland. His legal career has included private practice in Cleveland, faculty appointments at the University of Virginia and Chicago Law Schools and Georgetown and Stanford University Law Schools, and government service as an assistant attorney general in the Justice Department.

Ann Claire Williams, federal judge, U.S. District Court for the Northern District of Illinois, doctor of laws. A 1975 graduate of the Notre Dame Law School, Williams has been a member of the University's Board of Trustees since 1988. She holds a bachelor's degree from Wayne State

University and a master's degree in guidance and counseling from the University of Michigan. Before her appointment by President Reagan to the federal bench in 1985, she served as an assistant U.S. attorney in Chicago and as a trial and supervising attorney. She is chair of the Court Administration and Case Management Committee of the U.S. Judicial Conference and treasurer of the Federal Judges Association. She has taught in many law schools throughout the country and with the Notre Dame-based National Institute for Trial Advocacy.

## Black Named Chair of Sorin Society

Cathleen P. Black, president of Hearst Magazines, is the new chair of the Edward Frederick Sorin Society, made up of alumni and other benefactors who contribute \$1,000 or more annually to Notre Dame in unrestricted gifts.

Black, who also is a member of the Board of Trustees, has been president of Hearst Magazines, the world's largest publisher of monthly magazines, since November 1995 and was elected to the Hearst Corporation board of directors in January 1996.

Named one of the 50 most powerful women in the United States by *Ladies' Home Journal*, she was president and chief executive officer of the Newspaper Association of America from 1991 to 1995 and served in a succession of executive roles with Gannett Co., Inc., a major media corporation, from 1983 to 1991. Her positions at Gannett included president and publisher of *USA Today*, executive vice president for marketing and member of the Gannett board of directors. When named publisher of *New York* magazine in 1979 — a position she held until joining *USA Today* — Black was the first woman to become publisher of a weekly consumer magazine. Previously, she had worked in advertising for a number of magazines before being named advertising manager and later, associate publisher of *Ms*.

A 1966 graduate of Trinity College in Washington, D.C., Black has been awarded six honorary doctorates and is a director of the Coca-Cola Company and IBM.

The Sorin Society, was established in 1976 and, with more than 6,600 members, is the flagship of the University's Annual Fund. The Society's Founder's Circle, for contributors of \$3,000 or more per year, was introduced in 1991 and has almost 1,200 members. The Sorin Society raised \$9.6 million, including \$1.2 million in matching gifts, in 1996. Sorin Society funds have been used in part to help almost triple the University's scholarship awards to students since 1990.

## Walther Cancer Institute Provides Grant to Establish Center of Excellence

Notre Dame has received a \$1.2 million grant from the Walther Cancer Institute in Indianapolis to establish the Walther Cancer Institute Center of Excellence in Cancer Research. The institute's gift will support a Walther Cancer Institute assistant professorship, three Walther Cancer Institute postdoctoral fellows and one Walther Cancer Institute predoctoral fellow.

The center is under the direction of Francis J. Castellino, dean of the College of Science and Kleiderer-Pezold professor of chemistry and biochemistry, who also obtained the funding for this program.

Among Notre Dame scientists with basic research programs directly related to cellular processes involved in cancer are:

- Morris Pollard, Coleman director of the Lobund Institute and professor emeritus of biological sciences, who has developed model systems for investigating prostate cancer and who studies chemical and biological agents that promote and prevent, and retard tumor growth and metastasis;
- Castellino, who studies the involvement of proteases, protease inhibitors, and cellular protease receptors in the production, growth and spread of malignant tumors and the relationships among procoagulant activity, fibrinolytic activity, and cancer;
- Michael C. Mossing, assistant professor of biological sciences, whose research concerns identification of DNA binding sites for proteins that regulate cell growth;
- Alan L. Johnson, professor of biological sciences, whose research concerns the relationships between apoptosis of cancer; and
- Subhash Chandra Basu, professor of chemistry and biochemistry, who studies the roles of cell surface glycoproteins and glycolipids in the formation, growth and spread of tumors.

In addition, facilities within the College of Science, such as the Radiation Research Laboratory, the Biosciences Biocore Facility (for oligonucleotide synthesis and sequencing), and the Center for Transgene Research support cancer-related work in individual research programs. Notre Dame will fund a Walther Cancer Institute Seminar Series for the next five years to bring to the University leading experts in related areas of cancer research to describe their work.

## Center for Civil and Human Rights Receives MacArthur Grant

Notre Dame Law School's Center for Civil and Human Rights has received a \$150,000 grant from the John D. and Catherine T. MacArthur Foundation to enable it to continue providing law clerks for the prosecutor's office of the International Criminal Tribunal for the Former Yugoslavia.

Created in 1995, 12 recent law school graduates — five from Notre Dame and seven from other schools — have been sent to assist in the process of preparing indictments resulting from the tribunal's investigations of war crimes during the war in the former Yugoslavia. The tribunal was established by the U.N. Security Council in May 1993.

Notre Dame provides matching funds and administers the clerkship program through the Center for Civil and Human Rights. Among other institutions whose graduates are involved in the program are Harvard, Oxford and Tufts Universities, the London School of Economics and Political Science, and the Universities of Essex and Paris.

## Tuition for 1997-98 Announced

Undergraduate tuition and room and board charges at the University will increase 5.3 percent for the 1997-98 academic year, the eighth consecutive year in which the rate of the University's tuition increase has declined. The increase of \$990 will bring tuition and fees to \$19,800. Room and board charges will rise \$260 to an average of \$5,020, for a combined cost of \$24,820.

Tuition and room and board charges at Notre Dame remain below those of most comparable private universities. Total student charges at Notre Dame in 1995-96 were below both the average (\$24,999) and the mid-point (\$26,148) in a survey of private colleges and universities. Notre Dame ranked 80th among 115 private colleges and universities in total student charges.

Graduate School tuition in 1997-98 will be \$19,680, and tuition in both the Law School and Master's of Business Administration program will be \$20,390.

## Commitment Made to Presidents' Summit for America's Future

Notre Dame has made a six-part commitment to the Presidents' Summit for America's Future, and Rev. Edward A. Malloy, C.S.C., president, will have a leadership role in the two-day event as a member of the Points of Light Foundation board of directors.

Scheduled for April 27-29 in Philadelphia, the summit is being convened to promote growth and cooperation in community service efforts nationwide, with a particular emphasis on ensuring that young people have access to five fundamental resources: a stable relationship with a caring adult; a healthy start in life; safe places and structured activities for learning and growth during non-school hours; marketable skills through effective education; and opportunities to give back through community service.

Malloy has taken a keen interest in the Presidents' Summit, in part because of his own experiences. As a student at Notre Dame, he participated in the Community for the International Lay Apostolate, a summer service experience that played a principal role in his decision to become a priest. In addition to his work with the Points of Light Foundation, Malloy also chairs the board of Campus Compact, an organization that promotes service-learning and student volunteerism in the nation's colleges and universities.

Two of Notre Dame's institutional commitments to the Presidents' Summit involve leadership roles in higher education as well as specific service. The Center for Social Concerns, as one of the four members of the University Summit Advisory Board, has pledged to host a local event highlighting programs that have been effective in addressing the summit's goals. The center also is committed to recruiting five other universities to host local summits on their campuses. On the local level, the center will establish a new program in conjunction with the South Bend Heritage Foundation that will give Notre Dame students more opportunities to continue their long-standing assistance to children in the community.

The Alumni Association's Community Service Program has accepted a leadership role in a senior volunteer mobilization effort. By invitation of the Corporation for National Service, the Fighting Irish Retired Service Team (FIRST) will assist in creating a coalition of college and university alumni groups committed to tapping the resources of their alumni age 55 and older to meet service needs in their respective communities. Through the 200 alumni clubs nationwide, FIRST plans to reach 153,000 children and their families through intergenerational

community service activities by the year 2000. In addition, in the next three years the Alumni Community Service Program is dedicated to doubling the number of graduates involved in national and local volunteer projects.

Four other Notre Dame programs have made local commitments to the Presidents' Summit for America's Future.

The Alliance for Catholic Education (ACE), a national award-winning program that provides teachers to understaffed parochial schools, will double to 160 the number of teachers it trains annually. In its fourth year, ACE serves schools in 16 dioceses in nine Southern and Southwestern states.

Holy Cross Associates, a lay ministry program of the Congregation of Holy Cross, will expand its domestic program from 47 participants in direct service to the poor of six cities to 59 participants in nine cities. This expansion will extend the program's service to an estimated 5,000 to 6,000 additional children.

By the year 2000, the Community Relations office will double to more than 300 the number of Notre Dame students involved in a year-round tutoring and mentoring program for disadvantaged young people in the South Bend area. An outgrowth of the NCAA's National Youth Sports Program (NYSP), Notre Dame's effort is the first to make NYSP a year-round activity.

The first-year Life Skills Program in the Department of Athletics is committed to providing some 250 Irish student-athletes to new programs such as Notre Dame Athletics Against Drugs, Notre Dame Stars (STudent Athletes Read for Success) and the Fellowship of Christian Athletes Community Outreach Program.

## Aerospace Studies Department Earns "Excellent" Rating

The Department of Aerospace Studies (Air Force ROTC) recently earned an "excellent" rating during a major evaluation conducted by an Air Education and Training Command Assessment Team. The evaluators praised the departmental staff's performance in the areas of administration, education, training and recruiting. The evaluators also highlighted the department's efforts at creating a quality culture which focuses on supporting and mentoring cadets. The evaluators also were impressed with the outstanding support the ROTC units receive from the faculty and staff. The evaluation, called a Quality Air Force Assessment, occurs approximately every two years at the University of Notre Dame.

# FACULTY NOTES

## Appointments

**Scott P. Mainwaring**, chairperson and Conley professor of government and international studies, has been named director of the Helen Kellogg Institute for International Studies. He has been a fellow in the institute since his appointment to the faculty in 1983. The Kellogg Institute, a center of comparative international studies with a special focus on Latin America, has been cited as the foremost Latin American research center in the world. It has helped shape the policies of political, economic and social liberalization now at work in the region.

## Honors

**Scott Appleby**, associate professor of history and director of the Cushwa Center, has been appointed to the national board of advisors for the new Bernardin Center for Theology and Ministry at the Catholic Theological Union in Chicago, Ill.

**Bruce A. Bunker**, professor of physics, has been appointed to a three-year term on the National Synchrotron Light Source Spectroscopy Proposal Study Panel, a group which reviews proposals for access to its facilities.

**Julia Douthwaite**, associate professor of Romance languages and literatures, was elected member-at-large for a three-year term on the executive board of the American Society for Eighteenth-Century Studies at the annual meeting of the American Society for Eighteenth-Century Studies in Nashville, Tenn., April 10-13.

**Ahsan Kareem**, professor of civil engineering and geological sciences, served on the International Advisory Committee of the American Society of Civil Engineers in Washington conference on Natural Disaster Reduction in Washington, D.C., Dec. 3-5.

**Ruey-wen Liu**, Freimann professor of electrical engineering, was appointed a member of the President's Advisory Council of the Circuits and Systems Society of the Institute of Electrical and Electronic Engineers.

**Rev. Ernan McMullin**, O'Hara professor emeritus of philosophy, was awarded the Founder's Medal of the Metaphysical Society of America at its meeting at Vanderbilt University in Nashville, Tenn., March 14-15.

## Activities

**John Adams**, assistant professor of biological sciences, presented an invited seminar titled "Malaria and the Erythrocyte" at the Department of Biology at Andrews University in Berrien Springs, Mich., Feb. 5.

**Scott Appleby**, associate professor of history and director of the Cushwa Center, delivered the keynote lecture "Toward a Shared Vision: American Religion and Politics" at a conference on the Role of Religion in Society sponsored by the American Jewish Committee in St. Louis, Mo., Nov. 18. He served on a panel on "Religion, Globalization, and Human Rights" at the Council on Foreign Relations in New York, N.Y., Dec. 12. He presented "Catholicism and American Culture: Keeping the Faith in Late Modernity" at a FADICA conference on Formation in Faith in West Palm Beach, Fla., Jan. 20. He delivered an invited talk titled "Taking Hold of the Dirty Stuff of History: Robert G. Hoyt and the Founding of the *National Catholic Reporter*" at a *Commonweal* Forum at Fordham University in New York, N.Y., Feb. 7. Appleby prepared the paper "The Politics of the Sacred: Islam, Globalization, and Internal Religious Pluralism" for a conference on Globalization, Democracy, and Political Change in Casablanca, Morocco, Feb. 15-17. He participated in the Cardinal Bernardin Conference of the Catholic Common Ground Initiative in Mundelein, Ill., March 8-9. He delivered the lecture "The Ambivalence of the Sacred: Religion, Violence, and Reconciliation" for the Thomas and William Gilbane Fellowship Fund Lectures on Globalization and Ethics at Brown University in Providence, R.I., March 5.

**Hafiz M. Atassi**, professor of aerospace and mechanical engineering and director of the Center for Applied Mathematics, presented an invited paper and chaired a session at the International Congress of Fluid Dynamics and Propulsion in Cairo, Egypt, Dec. 29-31. He presented the paper "Aeroacoustics of Nonuniform Flows" at the 35th Aerospace Sciences Meeting and Exhibit in Reno, Nev., Jan. 5-9.

**Kathleen Biddick**, associate professor of history, gave the invited paper "Becoming Collection and the Afterlife of Medieval Universal Histories" at a conference on Medieval Spatial Practices held at the Center for Medieval Studies at the University of Minnesota in Minneapolis, Minn., April 12.

**Joseph Blenkinsopp**, O'Brien professor of theology, delivered a public lecture on "Memory, Tradition and the Construction of the Past in Ancient Israel" at the University of Aarhus, Denmark, Feb. 17. He led a seminar to faculty on "Politics and Cult in Neo-Babylonian Judah"

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and led a faculty-student seminar on "Jeremiah as Intercessor" in the Biblical Institute of the University of Oslo, Norway, Feb. 18-19. He presented the seminar on "Politics and Cult in Neo-Babylonian Judah" at the University of Copenhagen, Denmark, Feb. 20.

**Sunny K. Boyd**, associate professor of biological sciences, presented the papers "Identification and Localization of Neurohypophysical Peptides in the Brain of a Caecilian Amphibian," "Quantitative Three-dimensional Characterization of Dendritic Trees in Amphibian Forebrain" and "Distribution and Endocrine Regulation of Thyrotropin-Releasing Hormone mRNA in the Developing Amphibian Brain" at the Society for Neuroscience meetings and JB Johnston Club Neuroanatomy Society meetings in Washington, D.C., Nov. 14-25. She presented a paper titled "Localization of Immunoreactive Gonadotropin-Releasing Hormone in the Caecilian Brain" at the annual national meeting of the Society for Integrative and Comparative Biology in Albuquerque, N.Mex., Dec. 26-30.

**Scott D. Bridgham**, assistant professor of biological sciences, gave a seminar titled "A Manipulative Climate Change Experiment in Northern Peatlands" at the School of Biology and Environmental Affairs at Indiana University in Bloomington, Ind., Jan. 22. He presented the seminar "Peatlands: Structuring Principals and Climate Change" at the Department of Biology at the University of Louisville in Louisville, Ky., Jan. 30-31.

**Bruce A. Bunker**, professor of physics, presented the invited talk "New Generation Synchrotron Sources and the Condensed-Matter Physics" at the March meeting of the American Physical Society in Kansas City, Mo., March 20.

**Daniel J. Costello Jr.**, chairperson and professor of electrical engineering, presented the paper "Weight Distribution and Error Performance of Terminated Convolutional Codes," coauthored with Marc P.C. Fossorier and Shu Lin, at the 31st annual conference on Information Sciences and Systems at Johns Hopkins University in Baltimore, Md., March 20.

**Xavier Creary**, Huisling professor of chemistry and biochemistry, presented a lecture titled "Reactive Intermediates Derived from Diazirenes" to the Department of Chemistry at Bowling Green State University in Bowling Green, Ohio, April 9.

**Julia Douthwaite**, associate professor of Romance languages and literatures, presented the paper "Reinventing Traditions: The 'Wild Girls' of French and British Popular Culture" at the annual meeting of the American Society for Eighteenth-Century Studies in Nashville, Tenn., April 10.

**Keith J. Egan**, adjunct professor of theology, lectured on "Holiness in the Third Millennium" in the Kino Institute 25th Anniversary Speaker Series in Phoenix, Ariz., Feb. 28. He lectured on "The Meals of Jesus" in a workshop at the Kino Institute in Phoenix, Ariz., March 1. He organized and led a Saint Mary's College pilgrimage to El Salvador, March 8-16.

**Harald E. Esch**, professor of biological sciences, presented a poster titled "The Life History of Workers in Honeybee Colonies" at the Entomological Society of America meetings in Louisville, Ky., Dec. 8-12.

**Douglas Fishkind**, assistant professor of biological sciences, presented the scientific paper "Myosin II Organization in Cytokinesis" at the annual American Society for Cell Biology meeting in San Francisco, Calif., Dec. 7-12.

**Malcolm J. Fraser Jr.**, associate professor of biological sciences, presented a poster "Analysis of Piggy Bac Transposable Element Excision in Cultured Insect Cells and Embryos" at the Keystone symposium titled Transposition and Site-Specific Recombination held in Santa Fe, N.Mex., March 1-5.

**Mohamed Gad-el-Hak**, professor of aerospace and mechanical engineering, gave the invited seminar "The Taming of Turbulence" at the Department of Mechanical and Aeronautical Engineering at Western Michigan University in Kalamazoo, Mich., April 8.

**Alejandro García**, assistant professor of physics, presented "Limits on Scalar Contributions to the Weak Interaction and Determination of Isospin Mixing Using the Electron-Neutrino Correlation" at the University of Kentucky in Lexington, Ky., Nov. 7. He presented the invited seminar "Limits on Scalar Contributions to the Weak Interaction and Determination of Isospin Mixing Using the Electron-Neutrino Correlation" at Ohio University in Athens, Ohio, Jan. 28. He gave the invited seminar "Beta Decay of  $^{40}\text{Ti}$  and the Efficiency of the ICARUS Neutrino Detector" at the Nuclear Physics Laboratory at the University of Washington in Seattle, Wash., March 11. He presented "Search for Physics Beyond the Standard Model: Scalar Currents in Nuclear Beta Decay?" at Duke University in Durham, N.C., April 3.

**John Garvey**, professor of law, gave the invited lecture "The Architecture of the Establishment Clause" at Wayne State University Law School in Detroit, Mich., Feb. 6. He chaired a symposium titled "Wisconsin v. Yoder" at Capital University Law School in Columbus, Ohio, Feb. 14. He conducted a faculty workshop on his book *What Are Freedoms For?* at the University of Minnesota Law School in Minneapolis, Minn., March 5. He gave a lecture on "Judicial Recusal" at Marquette University Law School in Milwaukee, Wis., April 4.

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**Maureen T. Hallinan**, White professor of sociology, presented the paper "Rational Choice Theory and Coleman's Educational Research" at the Scientific Conference in Honor of Jim Coleman in Bad Hamburg, Germany, Nov. 2. She presented "Implications of Research on Ability Grouping for School Practices" at the Herman Kahn Center of the Hudson Institute in Indianapolis, Ind., Nov. 10. She gave the invited talk "Integrating Educational Theory and Practice: Making Sociology Relevant" to the Program on Institutions and Individual Series at Johns Hopkins University in Baltimore, Md., Nov. 20. She gave the talk "Curriculum Differentiation and Student Ability" at Indiana University in Bloomington, Ind., April 10.

**Ronald A. Hellenthal**, professor of biological sciences, presented an invited paper titled "Production, Community, Structure, and Change in an Urban Stream" at the annual meeting of the Entomological Society of America in Louisville, Ky., Dec. 8-10.

**Ahsan Kareem**, professor of civil engineering and geological sciences, delivered a keynote lecture on "Analysis and Simulation Tools for Wind Engineering" at the symposium on Assessment of Wind Loads: Current Status and Future Direction held at the Center for Wind-Resistant Structures at the Department of Civil Engineering at the National University of Singapore, Dec. 16. He presented two other papers titled "Wind Load Provisions of ASCE 7-95 for Flexible Structures" and "Two-Dimensional Simulation of Flow Around Rectangular Prisms" co-authored with D. Yu at that symposium. Kareem co-chaired the working group sessions on Bridge Control and presented a plenary session lecture titled "Wind Engineering Research in the USA and the Next Generation of Wind Test Facilities" at the second international workshop on Structural Control titled Next Generation of Intelligent Structures held at the Hong Kong University of Science and Technology in Hong Kong, Dec. 18-21.

**Charles Kulpa**, professor of biological sciences, presented the invited seminar "Aerobic and Anaerobic Degradation of Trinitrotoluene" at the Department of Chemistry at Western Michigan University in Kalamazoo, Mich., Feb. 10.

**Gary A. Lamberti**, associate professor of biological sciences, presented the seminars "Intermediate Regulation of Stream Food Webs by Benthic Invertebrates" and "Exotic Invasions of the Great Lakes: Zebra Mussels and River Ruffe" at Grand Valley State University in Allendale, Mich., Dec. 5-6. He presented an oral paper titled "Exploitation of Benthic Invertebrates by Ruffe: Laboratory Experiments, Field Surveys, and Predictions for the Great Lakes" at the international symposium on Biology and Management of Ruffe in Ann Arbor, Mich., March 21-24.

**David M. Lodge**, associate professor of biological sciences, served as chair and delivered the paper "Nonindigenous Species in Aquatic Ecosystems" in the special session on Exotic Species at the annual meeting of the American Society of Limnology and Oceanography in Santa Fe, N.Mex., Feb. 9-16. He delivered the seminar on the Illinois Natural History Survey "Predicting Impact of Exotic Species on Freshwater Ecosystems: Challenges in Temporal and Spatial Scaling" in Champaign-Urbana, Ill., April 1-4. He presented "Impact of Generalist and Specialist Herbivores on Freshwater Macrophytes: Comparisons with Terrestrial and Marine Habitats" to the Department of Ecology, Evolution and Environmental Biology at the University of Illinois in Champaign-Urbana, Ill., April 1-4.

**Douglas D. McAbee**, assistant professor of biological sciences, presented a work titled "Iron-loading Increases Lactoferrin Receptor Activity on Cultured Rat Hepatocytes" at the annual meeting of the American Society for Cell Biology in San Francisco, Calif., Dec. 7-12. He gave a seminar titled "Iron-dependent Regulation of Hepatocyte Metabolism of Lactoferrin" to the Department of Microbiology and Molecular Cell Sciences at the University of Memphis in Memphis, Tenn., Jan. 15-17. He presented a seminar titled "Iron-dependent Regulation of Hepatic Metabolism of Lactoferrin" at the Department of Biochemistry at the University of North Dakota Medical School in Grand Forks, N.D., Jan. 23-24, and to the Department of Chemistry and Biochemistry at California State University in Long Beach, Calif., Feb. 10.

**Rev. Ernan McMullin**, O'Hara professor emeritus of philosophy, spoke at a symposium on "The Anthropic Principle" at Purdue University in West Lafayette, Ind., March 1. He gave the keynote address "Evolutionary Contingency and Cosmic Purpose" at a conference on Science and Religion at Moravian College in Bethlehem, Pa., March 11-12. He spoke on the topic "Evolution and the Augustinian Notion of Creation" at St. John's University in Brooklyn, N.Y., March 19.

**Gerard Misiolek**, assistant professor of mathematics gave the talk "Integrable Equations, Bott-Virasoro Group and Reduction by Stages" in the Control and Dynamical Systems seminar at Caltech in Pasadena, Calif., April 14.

**Larry Rapagnani**, assistant provost for information technologies, presented a talk titled "State of Information Technologies in Higher Education: Point Counterpoint" to the Computer Services Management Symposium XXIV in St. Louis, Mo., March 1.



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**Charles M. Rosenberg**, professor of art, art history and design, delivered the paper "Caravaggio's *Penitent Magdalen: A Woman on the Edge*" at the annual meeting of the Renaissance Society of America in Vancouver, British Columbia, April 6.

**Valerie Sayers**, professor of English, was a visiting faculty member at the Charleston Writers Conference in Charleston, S.C., March 20-23.

**Rebecca S. Mela**, assistant professional specialist in the Executive Programs of the College of Business Administration, presented a talk titled "An Entrepreneur's Approach to Distance Education at Notre Dame" at the International Distance Learning Conference in Washington, D.C., March 25.

**Patrick J. Schiltz**, associate professor of law, spoke on "Cameras in the Courtroom" at the annual regional conference of the Society of Professional Journalists in South Bend, Ind., April 5.

**Susan Guise Sheridan**, assistant professor of anthropology, chaired the Paleopathology II session and presented a paper titled "Biocultural Reconstruction of Kneeling Pathology in a Byzantine Judean Monastery" at the 66th annual meeting of the American Association of Physical Anthropologists in St. Louis, Mo., April 1-5.

**Thomas Gordon Smith**, chairperson and professor of architecture, gave the lecture "Millford Plantation and the Beauties of Modern Architecture" at the symposium titled Neoclassicism and the Greek Revival in Charleston, South Carolina, and the Nation at the Department of Art History at the College of Charleston in Charleston, S.C., April 1.

**Billie F. Spencer Jr.**, professor of civil engineering and geological sciences, gave the invited seminar "Structural Control: Current Status and Future Trends" in the Department of Civil and Materials Engineering at the University of Illinois in Chicago, Ill., March 10. He gave the invited seminar "Magnetorheological Dampers: A New Approach to Seismic Response Reduction" in the Department of Civil Engineering at Texas A&M University in College Station, Tex., April 9.

**Arvind Varma**, Schmitt professor of chemical engineering, presented the Robb Distinguished Lecture in Chemical Engineering titled "Combustion Synthesis of Advanced Materials" at Pennsylvania State University in University Park, Pa., April 1.

**Robert P. Vecchio**, Schurz professor of management, gave the invited talk "The Perspective of Journal Editors on Null Hypothesis Significance Testing" at the national meeting of the Society for Industrial and Organizational Psychology in St. Louis, Mo., April 12.

**Kathleen Maas Weigert**, professional specialist and associate director for academic affairs and research in the Center for Social Concerns, fellow in the Kroc Institute for International Peace Studies and concurrent associate professor of American Studies, conducted a workshop, with **Kathy Royer**, director of community partnerships and service learning at the Center for Social Concerns, on "University Community Partnerships: The Problems and Promise of a Pedagogy" at Purdue University in West Lafayette, Ind., Feb. 19. She spoke on "Social Justice and the Catholic Campus" at the meeting of the National Association of Students at Catholic Colleges and Universities at the University of Notre Dame, Notre Dame, Ind., Feb. 21. She lectured on "The Dangerous Waters of Baptism: The Dangers of Service" in the Lenten Series at Saint Mary's College in Notre Dame, Ind., March 5.

**John P. Welle**, associate professor of Romance languages and literatures, gave the paper "Cecchi at Cines: Notes Toward a Philology of Cinema" at the American Association of Italian Studies annual conference at Wake Forest University in Winston-Salem, N.C., Feb. 21-23.

## Deaths

**Kok-Wee Phan**, professor of mathematics, April 5. A native of Jahore, Malaysia, Phan was a graduate of the University of Melbourne, from which he received bachelor's degrees in mathematics and electronics. He received his doctoral degree in mathematics from Monash University in Clayton, Australia, in 1968 and joined the Notre Dame faculty the same year. An expert in the theory of finite groups, Phan published numerous articles in scholarly journals and gave lectures at the University of Chicago, Oxford University, the National University of Singapore and the University of Technology and Science in Beijing.

## Appointments

Cathy Pieronek, a 1995 Notre Dame Law School graduate, has been named associate director for law school relations. She earned bachelor's and master's degrees in aerospace engineering from Notre Dame and the University of California at Los Angeles, respectively, and was a staff engineer with TRW, Inc., prior to returning to Notre Dame in 1992 to pursue a law degree. She served as editor of the law school's *Journal of College and University Law*. As associate director of law school relations, Pieronek will serve as managing editor of the *Notre Dame Lawyer* alumni magazine and will coordinate law alumni events, continuing legal education programs and law school publications.

Lisa M. Bolanz, a 1996 Notre Dame Law School graduate, has been appointed associate director of law career services. A 1991 graduate of Harvard University with a bachelor's degree in comparative religion, she worked in the publishing field before entering the Notre Dame Law School in 1993. Bolanz will be responsible for coordinating the extensive on-campus interviewing program at the law school, as well as for developing law career planning programs and counseling students.

## Activities

James Moriarity, M.D., chief of medicine at University Health Services, gave the invited lecture "The Case for Creatine" at the sixth annual meeting of the American Medical Society for Sports Medicine in Colorado Springs, Colo., April 5-9.

## Publications

Alan S. Bigger, director of building services, and Linda B. Bigger, assistant director of purchasing, wrote "Enhancing the Image of Rest Rooms" published in the April 1997 issue of *Maintenance Solutions*.

## Faculty Senate Journal

March 4, 1997

The chair Professor Richard P. McBrien called the meeting to order in room 202 of the Center for Continuing Education at 7:02 p.m., and asked Professor Regina Coll, C.S.J., to offer a prayer. The journal for the February meeting was approved on a voice vote without changes. The chair's report is printed as appendix A of this journal, while a letter to the chair from Professor James Merz, vice president for graduate studies and research, pertaining to research funding for the College of Arts and Letters, is printed as appendix B. The senate then recessed for 45 minutes to meet in standing committees.

At 8 p.m. the senate reconvened and heard committee reports.

**A. Academic Affairs** — the chair Professor Sonja Jordan reported on five items.

1. The committee will meet soon with either Maureen Gleason, acting director of University Libraries, (to talk about electronic services in the libraries) or Jeffrey Kantor, vice president and associate provost, (to talk about the rumored possibility of computer access charges).
2. The committee does not yet have enough data to evaluate the problem of foreign faculty documentation. It will pursue this issue through departmental contacts.
3. The committee will contact Kathleen Cannon, O.P., associate provost, and Carol Ann Mooney, vice president and associate provost, to seek data on the number of senior faculty the University has lost in recent years, and the nature of this loss.
4. Since other committees of the senate are looking at the issue of graduate student health benefits, they will simply keep in touch with the others on this.
5. The Merz letter (printed as appendix B) and numerous conversations held by committee member Professor Michael Detlefsen on research funding in the College of Arts and Letters indicate the University is making good faith efforts in this difficult area. The committee members were encouraged and will continue to monitor this topic.

**B. Administration** — the chair Professor Clive Neal reported on their primary business: assisting the University Affirmative Action Committee in their work. Senators will participate in the committee's discussions and monitor their progress. The Administration Committee also met in joint session this evening with the Benefits Committee, and this will be reported later.

**C. Student Affairs** — the chair Patrick Sullivan, C.S.C., reported that the committee will hold a special meeting before the next regularly scheduled senate meeting to deliberate more fully on the proper role of faculty members in issues that concern student life. Specifically how should faculty be involved or assist in such issues as residence hall living (i.e., hall fellows), alcohol and other substance use and abuse, a student bill of rights, and the whole question of revising student policies and the published handbook. The meeting tonight set the parameters for the next one.

**D. Benefits** — the chair Professor Mario Borelli reported at length on the committee's open meeting with the Director of Human Resources Roger Mullins. A list of items for discussion, given to Mullins in preparation for this meeting, is printed as appendix C of this journal. Mullins's responses were open and forthright. He said that, if the faculty wanted options in health insurance, choice costs money. He distinguished between a PPO which has some flexibility and an HMO where choice is more limited. Notre Dame will try always to have one PPO available. However, it is not likely to be CIGNA after this current year because human resources' own surveys and the senate's show that the CIGNA bureaucracy is confusing, ineffective and gives contradictory information; it is uncommunicative, even with Mullins himself who was not formally told, for example, that one pharmacy chain was dropped from the network; and their priority, even in this community, was not Notre Dame but Allied Signal, its largest national customer whose wishes usually dominate.

Blue Cross/Blue Shield could be considered as a replacement for CIGNA as a PPO, but he pointed out that any PPO wanted exclusivity (why there is usually only one) in return for low cost, and they are looking at other carriers. He saw no reason that Notre Dame could not offer several HMO options, but there would be only one PPO. On insurance costs he foresaw a 10 to 20 percent annual increase for years to come; he asked everyone to remember that a 12 percent increase in health insurance costs equated a 1 percent rise in tuition. The evaluation of Family Health Plan which his office was conducting was only in its early stages and the sample was too small to draw conclusions.

He has known that some female faculty members have been unhappy with the current University health benefits for birth control issues, but the chances of modifying them are slim; he wanted people to know, however, that certain birth control issues would be covered by the insurance plans if the woman was under a doctor's care in whose medical judgment such steps were necessary. The doctor's statement was subject to review by a panel of priests. On the question of so few female dentists, he knew

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of no reason they were left out of the dental plan; the plan had only a few dentists anyway, few faculty and staff were covered, and there were only a few female dentists in the area. A committee member suggested recruitment.

On health issues for retirees, he disputed the figures quoted that 88 percent of health care expenses for active faculty are covered, while only 35 percent for retirees was. His office was continuing to work toward the establishment of a nationwide prescription network to meet retiree needs. The University was not willing to make a further written guarantee on Retiree 2000 than what it has already done. He questioned how great a push should be made to have retirees pay their own premiums to join the active faculty health plan; their plan was complementary to Medicare, while the active faculty plan was not necessarily. Further, to seek to include them would automatically raise the premiums active faculty and staff would have to pay. Borelli and others said this should not be considered a troublesome issue; everyone will be there sooner or later.

Professor Kathleen DeLanghe, a committee member, wondered why so few senators (10) attended this open meeting; according to some, health insurance benefits were a major cause of concern at Notre Dame. Professor William Eagan said it was ridiculous to say that there were not enough funds to pay decent benefits to retirees; every year, he pointed out, huge sums of money were transferred from unrestricted funds to restricted funds in an accounting trick to build up endowment rather than giving decent health benefits to retirees. Several years ago, for instance, when active faculty saw no increase in premiums, retirees who retired prior to 1990 saw their rise 50 percent, and those after 1990 rise 35 percent (somehow, for some unexplained reason, the latter group's increase was called back last month).

Professor Ava Preacher asked what will be the new PPO. Borelli said no one had been announced as yet, but several smaller providers were being considered. He said again a PPO was buying exclusivity, while Notre Dame was buying a national network and bargaining power. Professor Ralph Chami asked how Notre Dame's health package compared to those at our peer institutions, but Borelli did not have such comparison data available.

Borelli then turned to the joint meeting of the Administration and Benefits Committees on graduate student health benefits. He reported that they had found out that the Department of Human Resources, with its talent, knowledge and expertise on health insurance issues, could not be involved in the graduate student health insurance issue. This was being handled strictly as a Student Affairs issue. The two committees will draft a resolution for the next senate meeting to urge the active in-

volvement of Human Resources in improving graduate student health insurance to put it on a par with our peer institutions as an attraction for the best graduate students to come to Notre Dame. Jordan asked if the representative to the senate of the Graduate Student Union, Jim Carroll, could be included in further discussions of this issue, and this was agreed to. The chair suggested that the senate might want to reconsider an earlier decision and invite Mullins to speak with the full senate on these kinds of issues.

The chair thanked the committees for their work and moved on to other agenda items. First, the senate considered a resolution (no second needed) from the Administration Committee (printed as appendix D) to form a nominating committee for the senate's upcoming elections cycle. Professor Jean Porter spoke in favor of the motion but suggested a change in the bylaws to allow such a committee to report to the senate and not have to report to the Executive Committee first. The senate, on a unanimous voice vote, approved the resolution.

Next the senate considered a resolution from the Administration Committee (no second needed) on ex-officio members. Neal asked to amend the resolution in two areas; discussion had indicated these changes were necessary to accord with actual practice. The senate agreed and by unanimous voice vote approved the amended resolution. It is printed as appendix E of this journal.

The senate moved to consider another resolution from the Administration Committee (no second needed) to add a question to the senate's survey instrument for deans and directors; the question dealt with the Catholic character issue. The resolution is printed as appendix F of this journal. Professor Jill Godmilow asked why have such a question. The chair responded by saying it was prompted by a letter received from Thomas E. Blantz, C.S.C., professor of history, who asked if such a question might not be added in evaluating the work of a dean or director. The Administration Committee agreed and presented this motion. The senate approved the resolution: 35 in favor, one opposed.

The senate considered a draft adjunct faculty survey. Although no formal vote was required to send it out, this survey was a service to the Academic Council which was following up on a resolution passed by the senate earlier this year. The survey was a device to gauge the sense of the adjunct faculty, and is printed as appendix G of this journal. The chair said senators could either resolve to discuss the survey or communicate views informally to the chair. The sense of the senate was to do the latter.

There was no new business brought up.

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The senate voted to adjourn at 8:40 p.m.

**Members Present:** Bayard, Bergstrand, Blakey, Blenkinsopp, Borelli, Buttigieg, Chami, Cholak, Coll, Davis, De Langhe, Derwent, Detlefsen, Eagan, Godmilow, Gundlach, Hemler, Jordan, Kirkner, Lamanna, Lombardo, Mason, McBrien, Neal, Porter, Preacher, Quinn, Ramsey, Runge, Sayers, Schmid, Sheerin, Sterling, Sullivan, Williams, Zachman, Carroll (Graduate Student Representative)

**Members Absent:** Berry, Biddick, Borkowski, Collins, Delaney, Huang, Hyde, Rai, Sheehan, Urbany, McShane (Student Government Representative)

**Excused:** Bigi, Garg, Hill

## Student Benefits Resolution

### Graduate Student Health Care

Whereas the University is striving to become a national research institution; and

Whereas the strength of any research program depends on the quality of graduate students; and

Whereas it is the moral responsibility of the University to attend to the welfare of the graduate students as they are part of Notre Dame; and

Whereas adequate health benefits can be used not only to retain quality graduate students, but also to increase the quality of the applicant pool;

Be it therefore resolved that the University expeditiously improve the standard of graduate student health care, especially in the area of family coverage; and

Be it further resolved that such medical coverage be extended from enrollment to five years after enrollment, or to the point at which the student graduates or leaves the University, whichever comes first; with coverage after five years for a student in good standing to be determined annually on a case-by-case basis; and

Be it further resolved that in this endeavor, the Faculty Senate strongly urges the University to utilize the goodwill expressed and expertise developed by the Department of Human Resources to seek ways of improving graduate student health care.

Passed 28-0  
April 2, 1997

## Appendix A

### Chair's Report March 4, 1997

1. In my January report to the Faculty Senate I noted that University Counsel Carol Kaesebier indicated to me that the president of the University had named an ad hoc committee to address the issue of nondiscrimination in University policies. Attorney Kaesebier also indicated that the committee had decided to take a comprehensive approach, reviewing all University statements on nondiscrimination and not just the item in the Manager's Guidebook to which the May 1996 resolution of the Faculty Senate referred. Attorney Kaesebier had hoped that her committee's work might be completed in time for consideration at the meeting of the officers of the University on February 18. That was not the case. The next meeting of the officers of the University is scheduled for later this month.

2. I have a detailed memorandum from Prof. James Merz, vice president for graduate studies and research, regarding research funding for arts and letters, a matter of concern that was embodied in a Faculty Senate resolution last year. I am making copies of the memorandum available to the Committee on Academic Affairs, which originated the resolution, and to the co-secretary of the Faculty Senate for inclusion in the journal of this evening's meeting.

3. Elections for officers of the Faculty Senate and for chairs of the four standing committees will be held at the final senate meeting of the academic year on April 29. With a view to the approach of those elections at the end of next month, and in consultation with the senate's Executive Committee, I have asked the following members of the senate to serve on this year's Nominating Committee: Kathleen Biddick (Department of History, College of Arts and Letters), Ralph Chami (Department of Finance, College of Business Administration), David Kirkner (Department of Civil Engineering and Geological Sciences, College of Engineering), William Ramsey (Department of Philosophy, College of Arts and Letters), and Thomas Runge (Department of Aerospace Studies, representing the ROTC). All five have generously accepted my invitation to serve on this committee. I have also invited Ikaros Bigi (Department of Physics, College of Science), but have not been able to make contact with him during the past week. The Nominating Committee will select its own chair. Of course, if the Faculty Senate should do the unexpected and defeat the resolution pertaining to the establishment of such a Nominating Committee, these appointments will become moot.

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To facilitate the work of the Nominating Committee, I have also asked each officer of the Faculty Senate and each chair of the four standing committees to prepare job descriptions of their respective positions, and I am making those job descriptions available to each member of the Nominating Committee. In due course, I shall circulate these job descriptions among the entire senate membership so that individual members can more intelligently decide whether they should stand for election to one or another of these offices and committee chairs, if and when the Nominating Committee invites them to do so. I urge you all to review the relevant material in the By-laws of the Faculty Senate. The duties of each of the standing committees, including the Executive Committee, are clearly outlined in Part II of the Bylaws.

4. In connection with the nominations and elections process that is about to get under way, I wish to announce that, while I shall be a candidate for reelection to the Faculty Senate in April, it is my intention not to be a candidate for reelection as chair of the Faculty Senate. I have served in this office for three consecutive terms and it is time for another member to have the opportunity to lead this body. Moreover, it is not healthy for the Faculty Senate to become too closely identified with a single member of the faculty. I will do all I can to make the transition in leadership a smooth one.

## Appendix B

DATE: February 26, 1997

TO: Richard McBrien  
Chair, Faculty Senate

FROM: Jim Merz  
Vice President, Graduate Studies and Research

RE: Research Funding for Arts and Letters

I promised you a brief report on the situation regarding research funding for Arts and Letters. Please pardon the delay, but I believe that Nathan Hatch provided you with an update when he visited the Faculty Senate earlier this year.

After conversations with Jennifer Warlick and Harry Attridge, I found that the situation appears to be roughly as follows:

1. There has definitely been a decline in funding from NEH. This year they received two fellowship awards, one for \$30K, the other for \$15K. The average over the last five years has been four fellowship awards @ \$30K, or \$120K total.

2. The situation looks much better when one considers all agencies; in fact, this has been a good year. There have been 32 awards, whereas last year there were 30 applications (although some of this year's awards resulted from last year's applications).

3. Some of the fellowship short-fall has been made up by Harry Attridge. I believe that some of this was done with additional funding provided by the provost.

4. Jennifer Warlick has given strong encouragement to A&L faculty to write *more* rather than fewer proposals. She thinks this is working, given the results mentioned above. In fact, it could provide an advantage for Notre Dame, because it is believed that many other universities are submitting fewer proposals.

5. The big change at NEH is not the *amount*, but the *kind* of funding. Most of it is going to specific centers and research locations. Our faculty can compete for this money, but to use it they have to relocate. Since the grant pays academic salary and travel expenses, it is financially possible, though somewhat less convenient, particularly for faculty with families.

6. Other changes at NEH involve (1) an apparent preference for junior scholars over senior investigators. This shift is probably appropriate because senior faculty should be better networked than junior, and thereby have better options. (2) Funding for conferences has decreased, but funding for individual support (including summer support) seems to be OK.

7. The Philosophy Department seems to be on especially hard times, and they have not identified alternate sources. Psychology and other social sciences are doing best, as they have sources such as NIH.

8. The situation with NEA is very bad. They are awarding no individual grants for fine arts, only "prizes" for less than \$5K. My office provided Jennifer Warlick with an additional \$15,000 to distribute on a competitive basis to arts faculty that have had funding in the past.

In addition, Tony Hyder has provided me with considerable back-up information, but it must be kept in mind that this pertains only to those grants that come through our office. (As you know, many don't.)

8. Funding for the Humanities and Social Sciences via Graduate Studies continues to increase. The most dramatic increase is for recruiting and professional development funds, thanks to the GS allotment this year: \$4K → \$100K.

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9. Funding for the Humanities and Social Sciences via the Office of Research has also improved. For equipment restoration and renewal, Humanities received \$91K, nearly one-third the total awarded. (The other thirds went to Science and to Engineering). Matching funds for equipment was \$29K, and cost-share funds in amounts between \$1000 and \$1500 were provided to four faculty since June 96; a fifth received \$5000 this December.

10. The history of the number of proposals *submitted* to NEH since 1987 is a bleak one, declining from a high of 37 in 1988 to 9, 8, 13, and 0 in 1993, 94, 95 and 96, respectively. Three have been submitted to NEH this year, and one has been funded. (These last data were as of mid-January.)

11. Similarly, very few proposals are submitted to NEA each year: 1, 0, 0, 5, 2, 0 for 1992, 93, 94, 95, 96, and 97 (to date).

12. The budget appropriations for NEA and NEH are essentially the same for FY97 as for FY96. The big cut was between FY95 and 96 (more than a 50% decrease).

At a very recent combined meeting of the Graduate Council and the University Committee on Research and Sponsored Programs (UCRSP), I asked Tony Hyder to describe a number of initiatives under development in my office that would provide Arts and Letters faculty with additional opportunities, assuming that we receive the funding increase that we anticipate. We are gathering faculty feedback for these programs to determine which should be emphasized.

I hope this provides you with a reasonable picture of the situation, and our current attempts to address it.

## Appendix C

### List of Items Submitted for Discussion

#### Items of concern

#### FACULTY

1. Make as many options as possible available to members. (highest priority)
2. Make sure at least one PPO is always available.
3. Make sure CIGNA is kept as one of the available options.
4. Attempt to include Blue Cross/Blue Shield among the available options.

#### RETIREES

1. There is a strong feeling among the faculty and the retirees that the University is not treating the retirees fairly. Regular T&R faculty get, on the average, 88% of their health care expenses met by the University. The corresponding figure for retirees is 35%.
2. The establishment of a nationwide prescription network for retirees appears to be a high priority item among retirees.

#### Questions

#### FACULTY

1. In response to item 1 above, to what degree are you prepared to assure or guarantee to the faculty that their demand for as many options as possible will be met? How many is as many as possible?
2. Do you have a concrete prediction as to the future trend of insurance premiums? For next year? For further in the future?
3. Can you share with us any results from the on-going evaluation of the Family Health Plan?
4. Can you describe as precisely as possible (defining terms) the present and the envisioned future status of health benefits for Graduate students?
5. What are the chances of any modification in the current University policy on birth control expenses. This is considered a serious lack of health benefits by most female faculty members.
6. What factors are responsible for the lack of female dentists in our insurance networks?

#### RETIREES

1. Beyond the written guarantee that the plan 2000 for retirees will not be dropped without a one year notice, is any safety net being contemplated should the plan be dropped?
2. Given that retirees might be willing to pay their own premiums, why are they not allowed to join the group health benefits of the T&R faculty?

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## Appendix D

### Resolution on Nominating Committee

Whereas annual elections are held for Faculty Senate officers and for the chairs of each of the Faculty Senate standing committees; and

Whereas each senator is encouraged to participate actively in the operation of the Faculty Senate;

Be it, therefore, resolved that the Chair of the Faculty Senate appoint a Nominating Committee no later than March of each year to promote the active participation of senators in the election process; and

Be it further resolved that the composition of this Nominating Committee be made up of no less than five and no more than seven members and that its composition reflect that of the full Senate membership; and

Be it further resolved that no member of the Faculty Senate's Executive Committee may be appointed to the Nominating Committee; and

Be it further resolved that the Nominating Committee shall report directly to the Faculty Senate body as well as to the Executive Committee.

Passed unanimously  
March 4, 1997

## Appendix E

### Resolution on Ex-Officio Members

Whereas ex-officio members of the Faculty Senate are elected or appointed to the Faculty Senate each academic year by their respective college councils from among the elected members of the Academic Council; and

Whereas the intent of ex-officio membership on the Faculty Senate is to provide a bridge of communication between the Faculty Senate and the Academic Council; and

Whereas ex-officio members of the Faculty Senate may now exercise the option not to serve on any one of the four standing committees of the Faculty Senate;

Be it, therefore, resolved that each ex-officio member of the Faculty Senate be appointed by the Chair of the Faculty Senate to one of the standing committees.

Passed unanimously  
March 4, 1997

## Appendix F

### Resolution on the Faculty Senate's survey of deans and directors

Resolved, that the following question be added to the present Faculty Senate survey concerning the review and reappointment of deans and directors: "How effectively has the dean [or director] promoted the Catholic character of the University of Notre Dame?"

Passed 35-1  
March 4, 1997



## University Committee on Libraries March 17, 1997

The meeting was called to order at 8 a.m. in the Foster Room at LaFortune Student Center by Chairman John Halloran. Also in attendance were John Adams, Leo Despres, Maureen Gleason, Christopher Hamlin, Janis Johnston, Steven Schmid and secretary Melodie Eiteljorge.

The minutes of the meeting of February 10, 1997, were approved as written.

Maureen Gleason reported that the basic issue in the libraries over the past few weeks has been budget planning. She will send a written report to committee members via e-mail.

### AGENDA:

1. Problems in getting access to journal articles, both owned and not owned by the libraries: The User Services division has proposed forming a library group to discuss issues such as circulation of journal volumes, the delivery of articles from document delivery services such as UNCOVER, including the possibility of direct user requests to such services, the arrangements for copying, etc. They would welcome participation by the University Committee on Libraries (UCL) and suggestions on how best to gather information on requirements and experiences of faculty and students.

Leo Despres stated that he knows of some bad experiences in the past at another institution with circulating journals to students. Steven Schmid added that in the business world photocopies are generally considered sufficient and journals are not circulated. The exception is journals with color images which must be taken out for scanning elsewhere, but even then the time period should be short.

Gleason noted that one issue is to determine why people want to take out journals. There can be a variety of reasons, including the availability of free photocopying elsewhere. Chris Hamlin stated that this brings up the issue of copy facilities in the libraries, which he feels are inadequate. A copy stand for photocopying illustrations in books is needed. Also, there do not appear to be as many copy machines in the tower as there were in the past. Gleason responded that we now have a vendor for our photocopy facilities, and they determine the number of machines by usage.

John Adams stated that for his department (biological sciences) photocopies are insufficient for journal articles because of the quality. Journals online can be helpful.

Gleason responded that there is no reason to have a single policy for the entire library system. This is why she would like opinions from users of various branches. Hamlin added that he feels we should also take into consideration whether or not the policy should apply only to recent journals.

Gleason asked: How can we get a broad spectrum of opinions? Could this group suggest ways to form a focus group from various areas? Janis Johnston asked if circulation statistics could provide any information. Gleason replied that useful statistics can not be obtained through the NOTIS system. Hamlin suggested that the college councils might provide a good representation and act as liaisons. Despres stated that the councils do not have an understanding of the problems in the libraries. Hamlin suggested that UCL and library representatives could inform them. Halloran added that some preface in written form should be distributed to each council. Gleason will prepare such a document and distribute it to the committee for the next meeting.

2. The possibility of integrating the Snite Museum collection into the University Libraries: Gleason explained that this topic was proposed by Randy Coleman who was unable to attend the meeting. It has been a matter of concern for the art department for some time.

There are other examples of such uncataloged collections which are being incorporated as time permits. These, however, are much smaller; to catalog the Snite collection would be a formidable task. Despres asked if the libraries might ask people at the Snite to put together a proposal for the development department, asking them to set up funding. Gleason replied that the libraries are in the process of recruiting for an architecture/art librarian but have not yet been successful. Once hired, that individual could work with the Snite to put together such a proposal.

Hamlin noted that this seems to be an issue of priority. It seems absurd to have collections without access so that no one knows about them. He noted that we do not have CRL available online. Gleason replied that the CRL catalog is not integrated into UNLOC but is available by clicking on "All Databases" on the libraries' homepage. This entire issue creates a dilemma. Even with recent improvement funds, the libraries are faced with choosing between certain kinds of needs. We could certainly hire someone to catalog the Snite collection, but that would mean cutting somewhere else, perhaps in the acquisitions budget. In addition, there are some collections in the Hesburgh Library which are not yet cataloged. We no longer have a backlog of current materials as we did in the past because we have made it a priority to stay current. In doing this, project work has been set aside and dealt with as time permits.

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Despres stated that with the visibility of the Snite Museum it seems reasonable that the development department would be willing to assist with setting up funding. Johnston suggested that the Friends of the Snite might be willing to assist with fund raising for such a project. Gleason stated that she would feel better about approaching this when we have an art/architecture librarian in place and that she hopes this will happen within the next few months.

Halloran asked if UCL can make a recommendation on this issue. Gleason replied that they can. Hamlin added that he would favor broadening the recommendation to include the cataloging of all the unavailable collections. Others thought this would weaken the specific proposal on the Snite. Hamlin also asked if student assistants are being utilized for such projects. Gleason replied that they are as much as possible. This is not original cataloging for the most part, but it does require training. Students do the checking, labeling, etc., but staff is required for the actual cataloging.

Johnston suggested that for the long term, in getting the resources we need, it might be helpful to know the numbers of titles in the collections on campus that are not cataloged. Gleason added that the libraries' position has always been that if we are going to catalog a collection it should then be open in some manner to people beyond the unit that has it.

3. Dialogue between the Academic Affairs Committee of the Faculty Senate and UCL: This is related to the Faculty Senate resolution on electronic services, distributed at the last UCL meeting, but could extend to other matters as well. Gleason noted that the Academic Affairs Committee, in addition to receiving input from UCL, would like to meet with her and Larry Rapagnani regarding electronic services on campus. After some discussion, it was agreed that John Halloran and Maureen Gleason will set up a meeting with Sonja Jordan, chair of the Academic Affairs Committee. If Gleason is invited to meet with the committee, she will suggest that Halloran might join them. It was agreed further that UCL should invite the Academic Affairs Committee to send a representative or representatives to a future UCL meeting.

There being no further business, the meeting adjourned at 9 a.m. The next meeting is scheduled for April 14.

Respectfully submitted,

Melodie Eiteljorge  
Secretary

## University Committee on Women Faculty and Students March 19, 1997

**Members Present:** Ani Aprahamian, Kathleen Biddick, Joan Brennecke, Sarah Dakin, Melanie DeFord, Diana DiBerardino, Barbara Fick, Kelly McMahan, Carol Mooney, Michael Morris, Margaret Porter, Gretchen Reydams-Schils, Gina Rucavado, Elaine Tracy

**Members Absent:** Dolores Frese

The meeting was called to order by Barbara Fick at 8 a.m. Margaret Porter agreed to take minutes. The minutes of the February 26, 1997, meeting were approved.

**Teacher Course Evaluations:** Joan Brennecke reported that she had not been able to complete her investigation of avenues for changing the TCE forms for the purpose of collecting data for future study of gender differences. She will present findings at the April meeting.

**Graduate Student Survey:** As suggested at the prior meeting Sarah Dakin sent the survey results to Andrew Sommese, chair of the Academic Affairs Committee of the Academic Council. Prof. Sommese responded that his committee has a full agenda for the rest of this academic year, but that next year's committee may be able to put it on the agenda. Dakin will follow-up on the survey to get additional break-downs included in the survey result, as well as more descriptive data. A copy of the survey results will be sent to the Graduate Council.

**Junior Faculty Survey:** Gretchen Reydams-Schils reported on the survey she is in the process of developing aimed at substantiating anecdotal information regarding the differences in collegial support given to male, female and minority junior faculty members. She has contacted the AAUW for suggestions and material, but has not yet had a response. She presented a draft of a survey consisting of five general questions dealing with communications, support for and inclusion in conferences, mentoring in terms of manuscripts and grant proposals, advice on the publishing process, advice on teaching skills. The survey would attempt to measure the level of support at Notre Dame and among colleagues in the field outside of Notre Dame. The committee discussed the general introductory questions that should precede the actual survey, the intended group to whom the survey should be sent (for example, tenure track faculty in the second through sixth year at Notre Dame), when the survey should be sent out and possible types of follow-ups. When the survey and the intended target group has been finalized Carol Mooney will generate a list of recipients.

**Coresidentiality:** Committee members reported responses received from peer institutions that had been contacted.

Fick contacted Holy Cross and Marquette. Holy Cross had not done any studies on the effects of coresidentiality; Marquette had done some quality of life surveys in the dorms, but they did not address the kinds of concerns the committee would find helpful, but seemed to concentrate on things like physical conditions of buildings and staffing levels. Melanie DeFord had no response from Northwestern University; Georgetown had no actual information, but reported that there is not enough coresidential housing to meet the demand. Kathleen Biddick contacted Duke University and received a report dealing with an evaluation of a three-year trial of federations and coed residences. The portion dealing with coed residences was distributed to committee members. Biddick also contacted Boston College, but no one there has been able to answer her questions. Margaret Porter has not had a response from MIT after talking with the person in charge of student housing. Joan Brennecke has not yet been able to contact Villanova University.

Fick distributed abstracts of research articles dealing with different aspects of coresidentiality. A discussion dealing with the findings of the articles versus anecdotal evidence took place, as well as the reasons for the University's opposition to a coresidential housing option. There also was some discussion of what options of coresidential housing should be offered. Biddick distributed a draft letter to the president of the Faculty Senate which seeks the assistance of the Faculty Senate in polling the faculty regarding coresidentiality. After some discussion and changes to the letter the committee voted to have it sent to the Faculty Senate in its revised form. Some discussion took place regarding what the next action should be with respect to coresidentiality, and several options were brought out, but no specific course of action decided upon.

**New Business:** Biddick announced that on April 3, 1997, at 12:15 p.m. in the Hesburgh Library Lounge, Barbara Walvoord will be the speaker at the Gender Studies Faculty Forum. Also, on Saturday April 5, 1997, at 2 p.m. the Women's Resource Committee will conduct a workshop. More specifics will be available on a flyer distributed later in the month. Gina Rucavado asked if anyone on the committee was familiar with the Senior Survey, which is part of the graduation packet sent to all graduating seniors. Social security numbers have to be included on the surveys. Students who do not fill out and return the surveys will not receive graduation tickets. Dakin will check with the Committee on Human Subjects regarding the use of social security numbers. Mooney will check on access to the data on the survey regarding sex discrimination.

The next meeting is scheduled for April 9, 1997, from 8 to 10 a.m. The meeting adjourned at 10 a.m.

Respectfully submitted,

G. Margaret Porter

# THE GRADUATE SCHOOL OFFICE OF RESEARCH

## Current Publications and Other Scholarly Works

COLLEGE OF ARTS AND LETTERS

### Anthropology

DaMatta, Roberto.

- R. DaMatta. Do País do Carnaval à Carnavalização: O Escritor e seus Dois Brasis. In *Cadernos de Literatura Brasileira*, vol. 3, ed. J. Amado, 120-135. São Paulo: Instituto Moreira Salles.

### Government and International Studies

Arnold, Peri E.

- P.E. Arnold. 1997. Executive Reorganization and the Executive Office of the President. In *The Executive Office of the President*, ed. H.C. Relyea, 407-443. Westport, Conn.: Greenwood Press.

Johansen, Robert C.

- R.C. Johansen. 1997. Radical Islam and Nonviolence: A Case Study of Religious Empowerment and Constraint Among Pashtuns. *Journal of Peace Research* 34 (1): 53-71.

- R.C. Johansen. 1996. Limits and Opportunities in Humanitarian Intervention. In *The Ethics and Politics of Humanitarian Intervention*, by S. Hoffmann, 61-86. Notre Dame: University of Notre Dame Press.

### First Year Composition and Literature

Hogan, Christine Jensen

- C.J. Hogan. 1996. Abbey Breakfast. *The Merton Seasonal* 21 (3): 10-11.  
C.J. Hogan. 1996. Father, forgive. *The Merton Seasonal* 21 (3): 10-11.

### History

Appleby, R. Scott

- R.S. Appleby. 1997. Among Catholics, It's Crisis All Over. *Commonweal* 124 (March 14): 17-20.  
R.S. Appleby. 1997. Introduction. In *Spokesmen for the Despised: Fundamentalist Leaders of the Middle East*, ed. R.S. Appleby, 1-15. Chicago: University of Chicago Press.  
R.S. Appleby. 1997. The Measure of the Fundamental Leader. In *Spokesman for the Despised: Fundamentalist Leaders of the Middle East*, ed. R.S. Appleby, 398-413. Chicago: University of Chicago Press.  
R.S. Appleby. 1997. Roots of Fundamentalist Terrorism. In *Encyclopedia of World Terrorism*, 382-384. London: Brown Partworks.

- R.S. Appleby. 1997. *Spokesman for the Despised: Fundamentalist Leaders of the Middle East*. Chicago: University of Chicago Press. viii + 429 pp.  
R.S. Appleby. 1996. Crunch Time for American Catholicism. *The Christian Century* 113 (April 3): 370-376.  
R.S. Appleby. 1996. If the Church Isn't a Democracy, What Is It? *U.S. Catholic* 61 (May): 6-14.  
R.S. Appleby. 1996. Ingenieure des göttlichen Bauplans: Was haben die Fundamentalisten aller Religionen gemein? *Der überblick* (Dec.):4-7.

### Romance Languages and Literatures

Welle, John P.

- J.P. Welle. 1997. Introduction. In *Peasants Wake for Fellini's "Casanova" and Other Poems*, by A. Zanzotto, eds. J.P. Welle and R. Feldman, i-xiii. Urbana and Chicago, Ill.: University of Illinois Press.  
J.P. Welle and R. Feldman, eds. and translators. 1997. *Peasants Wake for Fellini's "Casanova" and Other Poems*, by A. Zanzotto, Urbana and Chicago, Ill.: University of Illinois Press. xviii + 225 pp.  
J.P. Welle and R. Feldman. 1997. Translators' Note. In *Peasants Wake for Fellini's "Casanova" and Other Poems*, by A. Zanzotto, eds. J.P. Welle and R. Feldman, xiv-xviii. Urbana and Chicago, Ill.: University of Illinois Press.

### Sociology

Hallinan, Maureen T.

- M.T. Hallinan. 1997. The Sociological Study of Social Change: American Sociological Association 1996 Presidential Address. *American Sociological Review* 62 (1): 1-11.  
M.T. Hallinan. 1996. Bridging the Gap Between Research and Practice. *Sociology of Education* 96:131-134.  
M.T. Hallinan. 1996. Educational Processes and School Reform. In *Generating Social Stratification: Toward a New Research Agenda*, ed. A. Kerckhoff, 153-170. Boulder, Colo.: Westview Press.  
M.T. Hallinan. 1996. A Favorite Book of the Past 25 Years. *Contemporary Sociology* 25 (4): 451-452.  
M.T. Hallinan. 1996. Implications of Goals 2000 for State and Local School Authorities. In *Implementing Educational Reform*, eds. Borman, Sadovnik, et al., 445-458. Norwood, N.J.: Ablex Publishing.  
M.T. Hallinan. 1996. Race Effects on Student's Track Mobility in High School. *Social Psychology in Education* 1 (1): 1-24.  
M.T. Hallinan. 1996. Track Mobility in Secondary School. *Social Forces* 74 (3): 983-1002.

# THE GRADUATE SCHOOL OFFICE OF RESEARCH

Johnson, C. Lincoln

- J. Davidson, A. Mock and C.L. Johnson. 1997. Through the Eye of a Needle: Social Ministry in Affluent Churches. *Review of Religious Research* 38 (3): 247-262.

## Theology

Poorman, Mark L., C.S.C.

- J.J. Paris, S.J., and M.L. Poorman, C.S.C. 1997. When Religious Beliefs and Medical Judgments Conflict: Civic Polity and the Social Good. In *Medical Futility*, eds. M.B. Zucker and H.D. Zucker, 85-97. Cambridge, U.K.: Cambridge University Press.

## COLLEGE OF SCIENCE

### Biological Sciences

Bridgham, Scott D.

- C.A. Johnston, J.P. Schubauer-Berigan and S.D. Bridgham. 1997. The Potential Role of Riverine Wetlands as Buffer Zones. In *Buffer Zones: Their Processes and Potential in Water Protection*, eds. N.E. Haycock, T.P. Burt, K.W.T. Goulding and G. Pinay, 155-170. Harpenden, U.K.: Quest Environmental.

Mossing, Michael C.

- T.R. Hazbun, F.L. Stahura and M.C. Mossing. 1997. Site-Specific Recognition by an Isolated DNA-Binding Domain of the Sine Oculis Protein. *Biochemistry* 36 (12): 3680-3686.

### Chemistry and Biochemistry

Nowak, Thomas

- O. Monasterio and T. Nowak. 1996. Applications of Nuclear Magnetic Resonance to Determine the Structure and Interactions of Ligands, Peptides and Enzymes. *Biological Research* 29:141-163.

Scheidt, W. Robert

- K.E. Brancato-Buentello, S-J. Kang and W.R. Scheidt. 1997. Metalloporphyrin Mixed-Valence  $\pi$ -Cation Radicals: Solution Stability and Properties. *Journal of the American Chemical Society* 119 (12): 2839-2846.

Smith, Bradley D.

- J.A. Riggs and B.D. Smith. 1997. Facilitated Transport of Small Carbohydrates through Plasticized Cellulose Triacetate Membranes. Evidence for Fixed-Site Jumping Transport Mechanism. *Journal of the American Chemical Society* 119 (11): 2765-2766.

## Mathematics

Migliore, J.

- J. Migliore and A.V. Geramita. 1997. Reduced Gorenstein Codimension Three Subschemes of Projective Space. *American Mathematical Society* 125:943-950.

## Physics

Blackstead, Howard A.

- H.A. Blackstead and J.D. Dow. 1997. Evidence that All High-Temperature Superconductors are p-type. *Physical Review B: Condensed Matter* 55 (10): 6605-6611.  
H.A. Blackstead and J.D. Dow. 1997. Flux-pinning by Ba-site Magnetic Rare-Earth Ions in  $(\text{Rare-Earth})_{1-x}\text{Ba}_{2-x}\text{Cu}_3\text{O}_x$ . *Journal of Applied Physics Letters* 70:1891-1893.

Darden, Sperry E.

- See under García, Alejandro. 1997. *Physical Review C* 55:640-651.

García, Alejandro

- N.I. Kaloskamis, A. García, S.E. Darden, E. Miller, W. Haeberli, P.A. Quin, P.B. Schwartz, E. Yacoub and E.G. Adelberger. 1997. Isospin Mixing in  $^{37}\text{K}$  and Spin Decomposition of GT Strength in  $^{37}\text{Ca}$  Decay. *Physical Review C* 55:640-651.  
D.W. Bardayan, M.T.F. da Cruz, M.M. Hindi, A.F. Barghouty, Y.D. Chan, A. García, R-M. Larimer, K.T. Lesko, E.B. Norman, D.F. Rossi, I.E. Wietfeldt and I. Zliven. 1997. Radioisotope Yields from 1.85 GeV Protons on Mo and 1.85- and 5.0-GeV Protons on Te. *Physical Review C* 55:820-827.  
R. Ejnisman, I.D. Goldman, P.R. Pascholati, M.T.F. da Cruz, R.M. Olivera, E.B. Norman, I. Zliven, F.E. Wietfeldt, R.M. Larimer, Y.D. Chan, K.T. Lesko and A. García. 1996. Cross-Sections for  $^{45}\text{Sc}(p,2n)^{44}\text{Ti}$  and Related Reactions. *Physical Review C* 54:2047-2050.  
A. García. 1996. Efficiencies of the  $^{37}\text{Cl}$  and  $^{40}\text{Ar}$  Neutrino Detectors. *Revista Mexicana Física* 42:84-91.  
K.I. Hahn, et al. 1996. Structure of  $^{18}\text{Ne}$  and the Breakout from the CNO Cycle. *Physical Review C* 54:1999-2013.

## COLLEGE OF ENGINEERING

### Aerospace and Mechanical Engineering

Sen, Mihir

- D.R. Sayer, M. Sen and H-C. Chang. 1996. Effects of Interfacial Stretching on Biomolecular Chemical Reaction in Helical-Coil Reactors. *Chemical Engineering Journal* 647:129.

# THE GRADUATE SCHOOL OFFICE OF RESEARCH

## Chemical Engineering

- Chang, Hsueh-Chia  
A. Indeikina, I. Veretennikov and H-C. Chang. 1997. Drop Falloff from Pendent Rivulets. *Journal of Fluid Mechanics* 338:173-201.
- H-C. Chang, E.A. Demekhin, D.I. Kopelevich and Y. Ye. 1997. Nonlinear Wavenumber Selection in Gradient-Flow Systems. *Physical Review E* 55:2818.
- See under Aerospace and Mechanical Engineering; Sen, Mihir. 1996. *Chemical Engineering Journal* 647:129.
- See under Electrical Engineering; Bandyopadhyay, Supriyo. 1996. *Nanotechnology* 7:360.
- Maginn, Edward J.  
E.J. Maginn, R.Q. Snurr, A.T. Bell and D.N. Theodorou. 1997. Simulation of Hydrocarbon Diffusion in Zeolites. In *Progress in Zeolite and Microporous Materials. Studies in Surface Science and Catalysis*, vol. 105, eds. H. Chon, S-K. Ihm and Y.S. Uh, 1851-1858. Amsterdam: Elsevier Science B.V.
- Miller, Albert E.  
See under Electrical Engineering; Bandyopadhyay, Supriyo. 1996. *Nanotechnology* 7:360.
- Varma, Arvind  
A. Varma and M. Morbidelli. 1997. *Mathematical Methods in Chemical Engineering*. New York: Oxford University Press. xiv + 690 pp.

## Civil Engineering and Geological Sciences

- Spencer, Jr., Billie F.  
K. Sobczyk and B.F. Spencer Jr. 1996. *Random Fatigue: From Data to Theory* (Polish Version). Warsaw, Poland: Academic Press. 241 pp.

## Computer Science and Engineering

- Chen, Danny Z.  
D.Z. Chen. 1996. Developing Algorithms and Software for Geometric Path Planning Problems. *ACM Computing Surveys* 28 (4): Article 18.
- D.Z. Chen and X. Hu. 1996. Fast and Efficient Operations on Parallel Priority Queues. *Parallel Processing Letters* 6 (4): 451-467.
- R. Tamassia, P.K. Agarwal, N. Amato, D.Z. Chen, D. Dobkin, R.L.S. Drysdale, S. Fortune, M.T. Goodrich, J. Hershberger, J. O'Rourke, F.P. Preparata, J-R. Sack, S. Suri, I.G. Tollis, J.S. Vitter and S. Whitesides. 1996. Strategic Directions in Computational Geometry. *ACM Computing Surveys* 28 (4): 591-606.
- Hu, Xiaobo (Sharon)  
See under Chen, Danny Z. 1996. *Parallel Processing Letters* 6 (4): 451-467.

## Electrical Engineering

- Bandyopadhyay, Supriyo  
S. Bandyopadhyay, A.E. Miller, H-C. Chang, G. Banerjee, V. Yuzhakov, D-F. Yue, R.E. Ricker, J. Jones, J.A. Eastman, E. Baugher and V. Chandrasekhar. 1996. Electrochemically Assembled Quasi-Periodic Quantum Dot Arrays. *Nanotechnology* 7:360.

## LAW SCHOOL

- Garvey, John H.  
J.H. Garvey. 1997. The Real Reason for Religious Freedom. *First Things* 71 (March): 13-19.
- J.H. Garvey. 1997. *What Are Freedoms For?* Cambridge, Mass.: Harvard University Press. 320 pp.
- Pearson, John H., C.S.C.  
J.H. Pearson, C.S.C. 1996. The Law of Easements: Rights in the Property of Another. In *Thompson on Real Property, 1996 Cumulative Supplement*, ed. D.A. Thomas, 45-62. Charlottesville, Va.: Michie.
- J.H. Pearson, C.S.C. 1996. Real Covenants: Promises Concerning the Use of Land. In *Thompson on Real Property, 1996 Cumulative Supplement*, ed. D.A. Thomas, 63-121. Charlottesville, Va.: Michie.
- Tidmarsh, Jay  
J. Tidmarsh. 1996. Civil Procedure: The Last Ten Years. *Journal of Legal Education* 46 (4): 503-512.

## Radiation Laboratory

- Asmus, Klaus-Dieter  
Sanaullah, H. Hungerbuehler, C. Schoeneich, M. Morton, D.G. Vander Velde, G.S. Wilson, K-D. Asmus and R.S. Glass. 1997. Electron-transfer-coupled Ligand Dynamics in  $\text{Cu}^{\text{III}}(\text{TTCN})_2$  Complexes in Aqueous Solution. *Journal of American Chemical Society* 119 (9): 2134-2145.
- Guldi, Dirk M.  
D.M. Guldi, M. Maggini, G. Scorrano and M. Prato. 1996. Intra- and Intermolecular Electron Transfer in Fullerene/Ferrocene Based Donor-bridge-acceptor Dyads. In *Fullerenes and Fullerene Nanostructures*, eds. H. Kuzmany, J. Fink, M. Mehring and S. Roth, 487-491. Singapore: World Scientific.

THE GRADUATE SCHOOL  
OFFICE OF RESEARCH

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## Awards Received and Proposals Submitted

In the period March 1, 1997, through March 31, 1997

### AWARDS RECEIVED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	8	925,108	11	588,470	19	1,513,578
Facilities and Equipment	0	0	0	0	0	0
Instructional Programs	0	0	0	0	0	0
Service Programs	0	0	4	9,472	4	9,472
Other Programs	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
<b>Total</b>	<b>8</b>	<b>925,108</b>	<b>15</b>	<b>597,942</b>	<b>23</b>	<b>1,523,050</b>

### PROPOSALS SUBMITTED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	7	814,398	22	5,267,962	29	6,082,360
Facilities and Equipment	0	0	0	0	0	0
Instructional Programs	0	0	3	3,033,491	3	3,033,491
Service Programs	0	0	0	0	0	0
Other Programs	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
<b>Total</b>	<b>7</b>	<b>814,398</b>	<b>25</b>	<b>8,301,453</b>	<b>32</b>	<b>9,115,851</b>

# THE GRADUATE SCHOOL OFFICE OF RESEARCH

## Awards Received

In the period March 1, 1997, through March 31, 1997

### AWARDS FOR RESEARCH

#### Aerospace and Mechanical Engineering

Jumper, E.  
Aero-Optic Consultative Assistance  
Calspan UB Research Center  
\$28,000 12 months

Szewczyk, A.  
Free-Oscillating Bluff Bodies  
Department of the Navy  
\$40,000 38 months

#### Biological Sciences

Bridgham, S.  
Research Experiences for Undergraduates Supplement  
National Science Foundation  
\$5,000 46 months

Duman, J.  
Structure/Function Studies of Insect Antifreeze Proteins  
Department of the Air Force  
\$59,214 12 months

#### Chemical Engineering

Varma, A.  
REU Supplement for NSF Grant CTS-9528941  
National Science Foundation  
\$5,000 24 months

Silver Membrane Reactors and Selective Oxidation  
Reactions  
Union Carbide  
\$50,000

Mechanistic Studies of Combustion Synthesis  
National Science Foundation  
\$83,697 36 months

#### Chemistry and Biochemistry

Castellino, F.  
Potential Angiostatin Fragments  
EntreMed, Inc.  
\$88,000 24 months

Blood Coagulation Protein-Metal Ion-Lipid Interactions  
National Institutes of Health  
\$270,411 12 months

Fehlner, T.  
Metallaborane Chemistry  
National Science Foundation  
\$383,000 36 months

#### Electrical Engineering

Merz, J., Snider, G.  
Properties of Self-Assembling Quantum Dots in  
InGaAs/GaAs  
University of California at Santa Barbara  
\$12,750 36 months

Hall, D.  
Model 2010 Upgrade  
Metricon Corporation  
\$1,025 36 months

Costello, D.  
Advanced Coding for Communication  
Telecommunications Advancement Organization  
\$8,381 1 month

#### GEM Program

Fortenberry, N.  
IPA Assignment  
National Science Foundation  
\$84,287 12 months

#### History

Kselman, T.  
The Conversion of the Jews in Modern France  
Littauer Foundation  
\$4,000 3 months

#### Romance Languages and Literatures

Moevs, C.  
Fellowship for University Teachers  
National Endowment for the Humanities  
\$30,000 10 months

#### Physics

Tanner, C.  
Precision Measurements of Transition Amplitudes in  
Cesium  
National Science Foundation  
\$66,250 36 months

Bennett, D.  
Degree Scale CMBR and Anisotropies from Topological  
Defect  
National Aeronautics and Space Administration  
\$78,563 12 months

#### College of Science

Castellino, F., Buechler, S.  
Development of Walther Cancer Research Center  
Walther Cancer Institute  
\$216,000 60 months





# THE GRADUATE SCHOOL OFFICE OF RESEARCH

## Chemistry and Biochemistry

Castellino, F.  
Potential Angiostatin Fragments  
EntreMed, Inc.  
\$88,000 24 months

## Computer Science and Engineering

Uhran, J., Beery, P.  
Discrete Utterance Research  
International Business Machines  
\$52,775 17 months

## Electrical Engineering

Hall, D.  
NSF CAREER Award Supplement  
National Science Foundation  
\$22,025 12 months

Bernstein, G.  
Reliability of Resonant Tunneling Diodes  
DARPA  
\$580,231 36 months

Reliability of Resonant Tunneling Diodes  
Department of the Air Force  
\$580,231 36 months

Reliability of Resonant Tunneling Diodes  
Department of the Navy  
\$580,231 36 months

Reliability of Resonant Tunneling Diodes  
National Science Foundation  
\$590,688 36 months

Costello, D.  
REU Supplement in Convolutional Codes  
National Science Foundation  
\$5,000 3 months

Costello, D., Collins, O.  
Turbo Coding for Mobile Channels  
Motorola  
\$32,162 12 months

Collins, O.  
Equipment Supplement  
National Science Foundation  
\$28,900 12 months

## Management

Conlon, E., Devaraj, S., et al.  
Linking Initial Quality to L.T. Quality Through  
Consumer Responses  
National Science Foundation  
\$93,410 12 months

## Physics

Wiescher, M.  
Supplemental Proposal to Nuclear Physics NSF Grant  
National Science Foundation  
\$259,802 36 months

Bennett, D.  
Snapshot Survey of Microlensed Source Stars  
Space Telescope Science Institute  
\$88,483 12 months

Berry, H.  
Measurements of Atomic Structure  
Department of Energy  
\$437,461 36 months

## PROPOSALS FOR INSTRUCTIONAL PROGRAMS

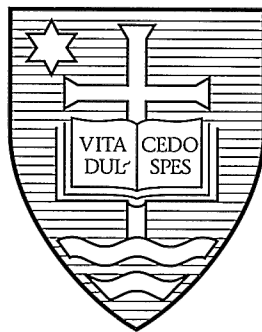
### Electrical Engineering

Bernstein, G., Minniti, R., et al.  
From Bits to Chips: A Multidisciplinary Curriculum  
National Science Foundation  
\$521,228 36 months

### GEM Program

Fortenberry, N., Johnson, R.  
Building Bridges: Enhancing Teaching and Research  
National Science Foundation  
\$155,513 36 months

Roman, D., Johnson, R.  
Graduate Student Industrial Fellowship (GSIF) Program  
National Science Foundation  
\$2,356,750 60 months



# NOTRE DAME REPORT

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