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McGlinns Underwrite New Residence Hall

One of two new women's residence halls now under construction will be underwritten with a gift from Notre Dame alumnus and trustee Terrence J. McGlinn and his wife, Barbara. McGlinn is chairman and chief executive officer of McGlinn Capital Management, Inc., an investment advisory corporation, located in Reading, Pa., with assets of \$3.5 billion under discretionary management.

McGlinn was graduated from Notre Dame in 1962 with a bachelor's degree in accounting and two years later earned his M.B.A. degree from the University of Pennsylvania's Wharton School of Business. McGlinn Capital, which he founded in 1969, is currently a whollyowned subsidiary of Corestates Financial Corporation, a \$45-billion bank holding company based in Philadelphia and with branches in 47 counties throughout Pennsylvania, New Jersey and Delaware.

McGlinn is co-owner of Lily's of Beverly Hills, a California-based sportswear design and manufacturing company, and serves as a consultant to several corporations in the Reading area. He also is a director and member of the executive committee of the Reading Hospital and Medical Center.

McGlinn is the founder and chairman of the Colonial Oaks Foundation, located in Wyomissing, Pa. The foundation's primary purpose is to provide philanthropic assistance to a number of charitable organizations.

Before his 1994 election to the Board of Trustees, McGlinn served for 11 years on the advisory council for the College of Business Administration. He is one of five principal benefactors of the college's new building complex, one component of which is the McGlinn Building. He also is a member of the Investment and Finance Committee of the Board of Trustees and of the President's Development Committee.

McGlinn Hall, being built on the University's new West Quad, will house approximately 275 women. Construction began last fall, and the hall is scheduled to be occupied for the 1997 fall semester. Its first residents will be drawn from one of two current women's residence halls, Knott and Siegfried Halls, which are to be converted into men's residences.

McGlinn Hall will be the westernmost of the four West Quad residence halls. Keough and O'Neill Halls, both men's residences, will be occupied in August. Welsh Hall, the second new women's residence, is under construction next to the Morris Inn.

AlliedSignal Funds Scholarships

Notre Dame has received a \$45,000 gift from the AlliedSignal Foundation to fund scholarships for its combined five-year Arts and Letters/Engineering, Minority Engineering and M.B.A. programs.

More than 100 Notre Dame graduates are employed by AlliedSignal. This is the second year that Notre Dame has been on AlliedSignal's key university list, a group of 24 schools from which the company hires most of its college graduate employees. The scholarship funds are intended to support AlliedSignal's recruiting efforts at Notre Dame.

This is the first time a company has funded scholarships in the combined Arts and Letters/Engineering Program.

College Football Association Recognizes Graduation Rate

The graduation rate of football players at Notre Dame has been recognized for the 15th consecutive year by the College Football Association (CFA).

Notre Dame extended its record as the only university to receive either a first-place or honorable mention CFA Academic Achievement Award for its graduation rate every year since 1982. The University has won the top award five times and in 1988 became the first institution to record a perfect 100 percent graduation rate. Also that year, Notre Dame became the first and still only university to record the top graduation rate and win the onfield national championship in the same year.

The Academic Achievement Award was established by the CFA in 1981, with Duke University the first winner. The following year Notre Dame won its first award for the year's highest graduation rate, and the honorable mention award, for universities with 70 percent or better graduation rates, was instituted. Each year since, the University has earned one of the two awards.

The 1996 award winners for the highest graduation rate are Vanderbilt and Duke Universities and Boston College.

Honors

John G. Borkowski, professor of psychology, was awarded the 1996 Career Research Scientist Award by the Academy on Mental Retardation in San Antonio, Tex., May 31.

Kevin J. Christiano, associate professor of sociology, was elected to a three-year term on the Executive Council of the Section on the Sociology of Religion of the American Sociological Association.

Philip J. Faccenda, vice president and general counsel emeritus, received the Notre Dame Alumni Association's Rev. Edward Frederick Sorin Award. The Sorin Award is given annually by the Alumni Association for outstanding service in the spirit of Notre Dame's founder.

Rev. Theodore M. Hesburgh, C.S.C., president emeritus and professor emeritus of theology, received honorary degrees from Saint Vincent College in Latrobe, Pa.; Saint Francis College in Joliet, Ill.; and Albertus Magnus College in New Haven, Conn., bringing his total to 133, the most ever bestowed on one person.

Scott Mainwaring, professor of government and international studies, has been named chair of the Democratization section for the Latin American Studies Association's international congress to be held in Guadalajara, Mexico, April 1997. He has been named to the Bryce Wood Committee of the Latin American Studies Association. The Bryce Wood Award is given to the scholar who produced the best book on a Latin American subject between January 1, 1995, and June 30, 1996.

Rev. Edward A. Malloy, C.S.C., president and professor of theology, has been declared a "Sagamore of the Wabash" by Indiana Governor Evan Bayh. Indiana's Sagamore of the Wabash Award was established during the 1945–49 administration of Governor Ralph Gates. The highest honor an Indiana governor is able to bestow, the award recognizes distinguished service to the state or its governor. According to the governor's office, "The term 'Sagamore' was used by the American Indian tribes of the northeastern United States to describe a lesser chief or a great man among the tribe to whom the true chief would look for wisdom and advice."

Rev. Richard P. McBrien, Crowley-O'Brien-Walter professor of theology, received a first place award from the Catholic Press Association for the *HarperCollins Encyclopedia of Catholicism* which he edited. The 1,350-page encyclopedia, which was published last year, took the first place award in the category titled "Popular Presentation of the Catholic Faith." **Guillermo** O'Donnell, academic director of the Kellogg Institute and Kellogg professor of government and international studies, has been appointed "Catedratico" *honoris causa* of the National University of Buenos Aires. He has been appointed honorary member of the Hispanic Council on International Relations, Washington, D.C.

Catherine Perry, assistant professor of Romance languages and literatures, received an ISLA contribution for participation in the conference "Narrative and Metaphor Across the Disciplines" at the University of Auckland, New Zealand, July 8–10. She received ISLA funds for New Course Development on French and North-African Relations.

Kenneth F. Ripple, professor of law, was named to the Members Consultative Group of the American Law Institute's project on the Federal Judicial Code.

Ellen D. Rogers, associate professional specialist and associate director of the Graduate School, was elected a member-at-large of the National Council of University Research Administrators' Region IV Executive Committee for a two-year term.

James H. Seckinger, professor of law, has been named the recipient of the 1996 Francis Rawle Award of the American Law Institute-American Bar Association for his extraordinary contributions to the field of post-admission legal education and the continuing education of the bar. He has been designated a master member of the Council Oak Inn of Court, South Bend, Ind., which is a chapter of the American Inns of Court. The Inns of Court are dedicated to promoting and enhancing, through educational programs and collegial sharing of experiences, the art and skill of being a professional, ethical and civil advocate in our nation's courts. Each chapter is composed of practicing lawyers, judges, law students and one academic lawyer. He was formally inducted as an academic fellow of the International Society of Barristers.

Albin A. Szewczyk, professor of aerospace and mechanical engineering, has been appointed as an adjunct professor in the Division of Applied Marine Physics at the University of Miami in Miami. Fla., for the period June 1, 1996, through May 31, 1997.

Arvind Varma, Schmitt professor of chemical engineering, has been elected to a three-year term as a director of the newly formed Catalysis and Reaction Engineering Division of the American Institute of Chemical Engineers.



Activities

Gary H. Bernstein, associate professor of electrical engineering, presented a talk titled "Quantum-dot Cellular Automata: Theory and Experiment" at the third international symposium on Nanostructures and Mesoscopic Systems in Santa Fe, N.Mex., May 19. He chaired the session "Nanotechnology: Fabrication" at the 40th international conference on Electron, Ion and Photon Beam Technology and Nanofabrication in Atlanta, Ga., May 31.

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Jay W. Brandenberger, associate professional specialist in the Center for Social Concerns and concurrent assistant professor of psychology, presented the Hesburgh lecture "Leadership for a New Millennium: Challenges for Youth and Education" at Viterbo College in LaCrosse, Wis., Feb. 15.

Theodore J. Cachey, associate professor of Romance languages and literatures, presented the invited lecture, "Peregrinus (quasi) ubique: Petrarch and the History of Travel" to the Department of Italian Studies at the University of Birmingham, May 8, to the Oxford-Reading Joint Research Seminar in Italian Studies at Oxford, May 10, to the Department of Italian Studies, University College, University of London, May 14, at Villa I Tatti, Harvard University Center for Italian Renaissance Studies, May 23, and to the Facoltá di filologia italiana, Università degli studi di Venezia, May 27.

James P. Dougherty, professor of English, gave three lectures at the English Institute of the University of Warsaw in Warsaw, Poland. The talks were "American Agrarians in the City — of Dis," April 23, "The Freedom of the City," April 25, and "Private Visions and Common Covenants," May 7.

William G. Dwyer, Hank professor of mathematics, gave two invited talks "Maximal Tori for Lie Groups and Finite Loop Spaces" and "Homotopy Fixed Points, Lefschetz Numbers, and Euler Characteristics" in the workshop on Unstable Homotopy Theory held at the Fields Institute in Toronto, Ontario, May 27–31.

Leonid Faybusovich, associate professor of mathematics, gave the invited talk "Infinite-Dimensional Semidefinite Programming: Self-Concordant Barriers and Path-Following Algorithms" in the workshop Semidefinite Programming and Interior-point Approaches for Combinatorial Optimization Problems held at the Fields Institute in Toronto, Canada, May 15–17. Mohamed Gad-el-Hak, professor of aerospace and mechanical engineering, delivered the invited talk titled "Prospects for Computing High-Reynolds-Number Turbulent Flows" at the third world conference in Applied Computational Fluid Dynamics in Freiburg, Germany, May 19–23.

Rev. Patrick D. Gaffney, associate professor, gave a talk titled "The International Response to Burundi 1993–1995 Compared to the Rwanda 1993–1994" at the meetings of the International Studies Association in San Diego, Calif., April 17. He was appointed an investigator for the United Nations' International Commission of Inquiry for Burundi. He was sent to Bujumbura, Burundi, April 23–May 26, where he worked with the commission investigating the violations of human rights over the course of the last three years but concentrating on the period immediately following the coup attempt and assassination of the president in October 1993. He assisted in preparing the final report of the commission at the United Nations headquarters in New York, N.Y.

Philip Gleason, professor of history, delivered the B.K. Smith Lecture in History titled "Recovering the Catholic Voice in American History" at the University of St. Thomas in Houston, Tex., March 21. He served as a commentator on a panel titled "Becoming an American Catholic" at the spring meeting of the American Catholic Historical Association held at the University of St. Thomas in Houston, Tex., March 23.

Denis Goulet, O'Neill professor in education for justice, economics, delivered a paper on "The Place and Role of Ethics in Development" to the research staff of the International Development Research Centre in Ottawa, Canada, June 5.

Jeanne Halgren Kilde, assistant professor of American studies, presented the invited lecture "'Let Churches be Made as Comfortable as Theatres': The Commodification of Protestant Church Space in Nineteenth Century America" and served as a panel member addressing the topic "Historical Perspectives on Sacred Spaces in American Culture" at the conference Mediating Spaces: American Religion and Place sponsored by the Center for the Study of American Religion at Princeton University in Princeton, N.J., May 25–26.

Gary Lamberti, associate professor of biological sciences, coauthored four papers at the annual meeting of the North American Benthological Society in Kalispell, Mont., June 3–7: "Zebra Mussel Recruitment in a Lakeoutlet Stream: Comparison of Larval and Adult Dispersal" with T.G. Horvath and David M. Lodge, associate professor of biological sciences, "Crayfish Predation on

Faculty Notes

Zebra Mussels and Native Invertebrates in a Midwestern Stream" with W.L. Perry and Lodge, "Do Crayfish and Darters Have Interactive Effects on Their Prey?" with R.S. Stelzer, and "A Comparison of Hyporheic Pore Water Samplers: Sampler Designs and Heterogeneous Physical Environments" with D.C. Tillman, A.M. Barsotti and **Stephen E. Silliman**, associate professor of civil engineering and geological sciences.

Ruey-wen Liu, Freimann professor of electrical engineering, delivered a seminar titled "An Adaptive Blind 2-Channel Equalizer for Wireless Communication" which was broadcast by video to its affiliated industry through the Sanford network to the Information Science Laboratory at Stanford University in Stanford, Calif., April 25.

Michael Lykoudis, assistant chairperson and associate professor of architecture, gave the presentation titled "Integration of Masonry in Architectural Curricula" at the seventh North American Masonry Conference at the University of Notre Dame, Notre Dame, Ind., June 5.

Scott Mainwaring, professor of government and international studies, presented a paper on "Presidentialism and Party Systems in Latin America" at the seminar on Electoral Reform and Democratic Consolidation at the Institute of Political Science at the University of the Republic in Montevideo, Uruguay, Nov. 29. He gave a presentation on "Presidentialism, the Party System, and Democratic Governance in Brazil" and gave a paper on "Political Institutions and Democratization in Brazil" at the Woodrow Wilson Center in Washington, D.C., Jan. 22-23. He presented the paper "Presidentialism and the Party System in Latin America" at the Institute for Legal Studies at the National University of Mexico in Mexico City, Mexico, Jan. 29. Mainwaring gave a paper on "Political Institutions and Democratic Governance in Brazil" at the Woodrow Wilson International Center for Scholars, March 5. He presented a paper on "The Brazilian Party System: Explaining Weak Institutionalization" at Georgetown University in Washington, D.C., March 20. He appeared as the guest on Radio Dialogue for an interview on "Brazil: Governing the Giant" which was aired on different stations the week of March 25-31. He gave a talk on "Political Parties in Latin America" at the Democracy Office of the Agency for International Development in Washington, D.C., May 29. He was a commentator at the conference on "Conservative Parties in Latin America" at the Center for U.S.–Mexican Studies at the University of California in San Diego, Calif., June 1.

Bradley Malkovsky, assistant professor of theology, presented "Foundations of Hindu and Semitic Spirituality and Doctrine" and "Hinduism and Hindu-Christian Interaction" at the Cathedral Church of St. James (Episcopal) in South Bend, Ind., May 12, 19. He presented "Christian Appropriation of Advaita Vedanta?" at the College Theology Society's annual convention in Dayton, Ohio, May 31. He served as moderator of the Comparative Theology session and presented "The Hidden Ground of Grace: Reflections on the Holy Spirit in the Light of Hindu Approaches to Spiritual Liberation" at the CTSA annual convention in San Diego, Calif., June 7–8.

Vicki J. Martin, associate professor of biological sciences, presented "Characterization of a Subset of Neurons in Hatching Hydra" at the Society for Developmental Biology Symposium at Vanderbilt University in Nashville, Tenn., May 30–June 5.

Mark J. McCready, associate professor of chemical engineering, presented a seminar titled "Nonlinear Stabilization of Interfacial Waves in Fluid-Fluid Flows" to the Department of Chemical Engineering at Northwestern University in Evanston, Ill., May 30.

Eileen B. Mikals-Adachi, associate professor of classical and Oriental languages and literatures, presented the paper "Father — Enchi Fumiko and the Man of Her Dreams" as part of the panel "In the Shadow of the Father: Literary Patriarchs and Japanese Women Writers" at the 48th annual meeting of the Association for Asian Studies in Honolulu, Hawaii, April 12.

Kevin M. Misiewicz, associate professor of accountancy, and Thomas J. Frecka, chairman and Lizzadro professor of accountancy, co-presented the plenary session "Intentional Learning: A Process for Learning to Learn in the Accounting Curriculum" at the Ohio regional meeting of the American Accounting Association in Aurora, Ohio, May 4.

Wolfgang Porod, professor of electrical engineering, coauthored two presentations by the NanoDevices Group titled "Practical Issues in the Realization of Quantum-Dot Cellular Automata" and "Quantum Cellular Neural Networks" at NanoMES '96, the international symposium on Nanostructures and Mesoscopic Systems, held in Santa Fe, N.Mex., May 19–24.

John E. Renaud, assistant professor of aerospace and mechanical engineering, served as a review panelist for unsolicited proposals submitted to the National Science Foundation's Division of Design, Manufacturing and Industrial Innovation held at the National Science Foundation in Arlington, Va., June 5.

Faculty Notes

Rev. Timothy R. Scully, C.S.C., vice president and senior associate provost, associate professor of government and international studies, senior fellow in the Kellogg Institute and fellow in the Urban Institute, testified before the United States' Senate's Labor and Human Resources Committee Hearing on behalf of the Corporation for National and Community Service, May 21. The corporation is undergoing oversight hearings in the senate, and Scully was asked to testify on behalf of the corporation's efforts in forming Americorps, of which the ACE Program is a member.

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James H. Seckinger, professor of law, served as program director and faculty member for the Tory Tory DesLauriers & Binnington Trial Advocacy Skills Program in Toronto, Canada, Jan. 25-27, for the Skadden Arps Slate Meager & Flom Deposition Skills Program in New York, N.Y., Feb. 1–2, and for the Dewey Ballatine Deposition Skills Program in New York, N.Y., Feb. 8-10. He was a faculty member for the Arthur Andersen Courtroom Presentation School for expert witnesses in St. Charles, Ill., March 14–15, and for the NITA Teacher Training Program at the Harvard Law School in Cambridge, Mass., March 22-24. He served as program director and a faculty member for the Jenner & Block Deposition Skills Program in Chicago, Ill., March 28-30, for the White and Case Trial Advocacy Skills Program in New York, N.Y., April 11-13, for the Pennie & Edmonds Deposition Skills Program in New York, N.Y., April 26-28, and for the Skadden Arps Slate Meager & Flom Trial Advocacy Skills Program in New York, N.Y., May 1-3. Seckinger was a faculty member for the Office of Chief Counsel of the Internal Revenue Service's Deposition Skills Program in Cincinnati, Ohio, May 14-16. He was program director and a faculty member for the Winston & Strawn Deposition Skills Program in Chicago, Ill., May 31-June 1, for the Fish & Neave Deposition Skills Program in New York, N.Y., June 6-8, and for the McCarthy Tetrault Trial Advocacy Skills Program in Vancouver, Canada, June 13-15.

Rev. Patrick J. Sullivan, C.S.C., adjunct assistant professor of sociology, presented "Comparison of Religious-Labor Coalitions: J.P. Stevens and Youngstown Coalition" at the annual meeting of Industrial Relations Research Association in St. Louis, Mo., May 3. He presented the talk "Social and Economic Factors in the Breakdown of Catholic U.S. Families" at Family Day at St. Mary's Parish in Scranton, Pa., May 21.

Arvind Varma, Schmitt professor of chemical engineering, presented an invited seminar titled "Optimal Distribution of Catalyst in Pellets, Membranes and Reactors" to the Strategic Technology Group of Engelhard Corporation in Iselin, N.J., May 10.

Deaths

Robert E. Gordon, vice president emeritus for advanced studies, June 2. A noted vertebrate zoologist and ecologist who joined the Notre Dame faculty in 1958, Gordon played a pivotal role in the development of postbaccalaureate instruction, research and sponsored programs at the University. He served for 18 years as Notre Dame's first vice president for advanced studies. Gordon's research interests included the behavior and taxonomy of reptiles and amphibians and their life history and population dynamics. He completed his undergraduate work at Emory University in Atlanta and received his master's degree from the University of Georgia in Athens and his doctorate from Tulane University in New Orleans. Before coming to Notre Dame, he was an assistant professor at Northeast Louisiana State University. At Notre Dame Gordon became a senior scientist in the Radiation Laboratory, served as chairman of the Department of Biology from 1965 to 1967 and was associate dean of the College of Science from 1967 until he was named vice president in 1971. He retired in 1989. Long interested in communicating scientific information, both through scientific publications and the popular media, Gordon received the Council of Biology Editors Medal for Excellence in Scientific Communication in 1972. He was the editor of several scientific publications, including the American Midland Naturalist. He served as chairman of the Science Information Council of the National Science Foundation; the Council on Biological Science Information, which advises the National Academy of Sciences; and the standing committee on the Communication of Scientific Information of the Pacific Science Association. He had been president of the board of trustees of the BioSciences Information Service and a member of the U.S. National Committee for the International Union of Biological Sciences, the National Institutes of Health Biomedical Communications study section, the Council of Biology Editors, and special task forces of UNESCO and the National Science Foundation. Gordon was a fellow of the American Association for the Advancement of Science and the Herpetologist's League and was a member of the Indiana Academy of Sciences, the Ecological Society of America, the American Society of Naturalists and a number of scientific organizations. He served as an officer for the Council of Biology Editors, the American Institute of Biological Sciences and the Society for the Study of Amphibians and Reptiles.

Administrators' Notes

Honors

Ronald A. Athey, assistant director of food services, was re-elected chairman of the executive board of the National Association of Collegiate Concessionaires at their conference held at Pennsylvania State University in University Park, Pa., June 8–11.

Activities

Karen I. Anderson, assistant director of development research, presented "Prospect Management and Tracking" to the Indiana chapter of the Association of Professional Researchers for Advancement at its summer conference at Franklin College in Franklin, Ind., June 7.

Ronald A. Athey, assistant director of food services, gave a presentation on "Speeding up the Lines at Football Stadium Concession Stands" at the National Association of Concessionaires Conference held in New Orleans, La., June 18.

Alan S. Bigger, director of building services, served on an industry roundtable titled "Spotlight on Maintenance: Part Two" featured in the June 1996 issue of *American School & University*.

Sally A. Derengoski, director of RecServices and Fitness, and Kara M. O'Leary, RecServices coordinator, presented "Planning the Promotions Mix: Managing the Bang and the Buck" at the 47th annual conference of the National Intramural and Recreational Sports Association in Kansas City, Mo., April 16.

Publications

Alan S. Bigger, director of building services, wrote "The Graffiti Battle: Erasing the Writing on the Wall" published in the May 1996 issue of *Maintenance Solutions*. Bigger and Linda B. Thomson, assistant director of purchasing, wrote "Golden Customer Service" published in the June 1996 issue of *Frugal Housekeeper*.

Academic Council Minutes March 21, 1996

Members in Attendance: Edward A. Malloy, C.S.C., Timothy O'Meara, E. William Beauchamp, C.S.C., Timothy R. Scully, C.S.C., Patricia O'Hara, Nathan O. Hatch, Harold Attridge, Francis J. Castellino, John G. Keane, Eileen Kolman, David T. Link, Anthony N. Michel, Robert C. Miller, Richard P. McBrien, David B. Burrell, C.S.C., Cornelius F. Delaney, Jean Porter, Philip L. Quinn, Andrew J. Sommese, Hafiz M. Atassi, Stephen M. Batill, Jeffrey H. Bergstrand, Edward J. Conlon, Roger Jacobs, Dennis Doordan, Lorry Zeugner, Matthew Fitzgerald

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Observers in Attendance: Andrea Midgett, Dennis K. Moore, James J. O'Brien Jr., Harold Pace

Guests: Sonja Jordan (making a presentation for the Faculty Senate), Kate Halishak, George Howard (both representing the Committee on Athletics)

Prof. O'Meara opened the meeting at 3:05 p.m. with a prayer.

1. Minutes approved. The minutes of the December 13, 1995, Academic Council meeting were approved without amendment.

2. Ad Hoc Subcommittee report on the University Committee on Women. Dean Attridge reminded the Academic Council that an ad hoc subcommittee of the Executive Committee had been charged with reconciling two proposed, new constitutions for the University Committee on Women. Of particular interest were two issues remanded to the subcommittee by the council at an earlier meeting: leadership of the Committee on Women, and University representation on the committee.

Specifically, Fr. Malloy had proposed that the provost chair the University Committee on Women as a means of bolstering the committee's efficacy and ensuring effective leadership. But other individuals had argued that the committee's autonomy would be better assured if its members were free to elect the chair. Prof. Hatch, provost-elect, later proposed to the Ad Hoc Subcommittee that the chair be appointed by the provost. He felt strongly that the University Committee on Women should be led by a senior woman on the committee'. He also felt that the best way to ensure the committee's effectiveness would be for the chair to be appointed.

Dean Attridge reported that, after much deliberation, the Executive Committee recommended that the provost appoint as chair one of the women members of the University Committee on Women holding full professorial rank. (See Attachment A.) He also reported that the subcommittee had deferred the matter of faculty representation on the University Committee on Women to the Executive Committee. The subcommittee recommended retaining the initial wording of the proposal concerning representation (i.e., the Law School would elect a faculty representative, the School of Architecture would not).

Fr. Burrell asked if the next to last sentence of the proposal should read, "The Committee may make recommendations for action *to* the President . . . " or, ". . . action *by* the President. . . ." Dean Attridge said that the intent is that recommendations would go to the president for action *by* him or any other officer of the University.

Dean Kolman expressed concern regarding the subcommittee's recommendation that the chair of the University Committee on Women be appointed by the provost. She recalled the Faculty Senate recommending, several years ago, that the chair be elected, a recommendation that was endorsed by the Ad Hoc Subcommittee earlier in the academic year before Fr. Malloy proposed having the provost serve as chair. Both proposals were discussed in depth by the council before the issue was remanded to the subcommittee. Dean Kolman felt that the final recommendation of the subcommittee presents a worst-case scenario, with election entirely lost. She said that while the intent, to have a senior woman serve as chair, is understandable, too many constraints would be placed upon the appointment. The University has only a small number of full professors who are women, and they do not represent all of the colleges/units of the University. If the president were to appoint four full women professors for his slots, the pool for the provost to choose from for a chair would be very limited. In conclusion, Dean Kolman felt that the subcommittee's recommendation did not reflect previous discussions or history regarding leadership of the University Committee on Women.

Ms. Jordan added that the Faculty Senate desired to see its original proposal maintained, which would allow the committee to elect its own chair from within. But Prof. Hatch said that, to ensure effective leadership, the chair should be a senior woman. He added that the chairs of most major University committees are chosen by the provost or president.

Prof. Porter asked if there would be any limitations upon whom the president could appoint to the committee other than that the person must hold a faculty appointment. She also asked if the president could appoint a person whose job is primarily administrative. Dean Attridge said that the proposal would place no such restrictions on the president. Prof. Porter then asked why a senior woman appointed by the provost would have more clout than a senior woman elected by the committee. Prof.

Hatch replied that not every faculty member would be a good committee chair. Prof. Porter asked Prof. Hatch if he felt that the committee could not be trusted to elect an effective leader. Prof. Hatch said no, but given the lack of senior women at the University, chances are that few would be elected to the committee. Prof. Porter responded that the small pool of senior women is a separate problem for the University.

Fr. Scully said that, as the subcommittee's original proposal read, it could happen that no senior woman were elected to the committee. For this reason, the Executive Committee wanted to safeguard the representation and leadership of the committee by allowing the provost to appoint a senior woman as the chair. Prof. Porter asked if the concern of the Executive Committee would be met if the president appointed senior women to the committee, and the committee then elected its own chair from the ranks of its elected and appointed senior women members. Fr. Scully replied that such a process would indeed ensure that a senior woman serve as chair. Dean Attridge said that it could happen that no senior woman was elected to the committee, and that the president appointed only one senior woman to the committee, thereby ensuring that she be appointed chair. Fr. Scully said that it would be hoped that such gerrymandering would not take place.

Prof. Quinn asked if the chair could be a *tenured* rather than senior woman, which would open the leadership of the committee to both full and associate professors. He said that the University is better endowed with tenured women faculty than with senior women faculty, and that associate women faculty may have more time and energy to devote to chairing such a committee than senior women faculty. Dean Attridge replied that this idea had not been discussed. Prof. O'Meara said that the Executive Committee's guiding principle had been to have a woman with clout chair the committee, which seemed more likely if she were a senior member of the faculty.

Dean Castellino said that the idea of clout seemed to be clouding the more important issue of how the chair of the committee should be decided upon. He asked why the chair would need clout and what would she do with it. He felt that the committee as a whole should have clout, not just the individual chairing it. And while he agreed that an assistant professor may be too inexperienced to chair such a committee, he felt that if the committee has clout, an associate professor could effectively serve as chair. Prof. Sommese replied that faculty seem to have more respect for individuals who have gone through the system and proven themselves academically.

Dean Kolman said that historically a lot of high expectations had been placed on the University Committee on Women, to somehow make Notre Dame a better place for women faculty and students. Looking back, it is not clear that clout would have led to greater accomplishments. However, it is clear that the committee has not been as effective as some people hoped for. This is one reason why recommendations were made for the election of individuals whose abilities and interests would better serve the needs of the committee. Dean Kolman said that though the issue of clout may seem to be a separate concern, it is probably related to the effectiveness of the committee. Dean Castellino replied that the committee could better accomplish its goals by issuing good position statements from within. Dean Kolman responded that, in the past, the lines of communication were ambiguous. No one knew exactly where to go to present a case for change.

Prof. Batill asked if the proposed appointed liaison to the academic administration would be a person other than the chair of the committee. He wondered if it would be more reasonable to have the chair serve as liaison. Dean Attridge replied that the current University Committee on Women has as chair a member of the Provost's Office who effectively links the committee and the administration. The Ad Hoc Subcommittee felt it would be advantageous to appoint a liaison to serve in the same capacity. But Prof. Batill felt that it could be less than effective for the liaison to engage in discussion with the administration if the chair were not a part of these discussions. Prof. O'Meara said that the committee would have a lot of work to do and that it could be too much for the chair, presumably a full professor, to also serve as liaison with the administration. Mr. Miller asked if the issue could be resolved by having one of the appointed members serve as a staff resource from the academic administration. Prof. O'Meara said that a staff resource person would probably find it very difficult to persuade and work with departments where there is a perceived problem that the University Committee on Women would like to see addressed.

Prof. Porter said that an unfortunate impression would be made by placing so much emphasis on the clout of the committee chair and by insinuating that the chair would only have that clout if she were appointed by the provost, implying that the committee would only be effective if it is chaired by someone selected by the administration and with whom the administration is presumably comfortable. She felt that, given the ways women's voices are and are not heard in male-dominated institutions, the impression would defeat the purpose of the committee.

Mr. Zeugner asked if there are other committee models where senior members are appointed, rather than elected, as chair? Dean Attridge answered that such appointments would not be without precedent. Prof. Sommese repeated that the primary concern was that election to the University Committee on Women might not yield many, or any, senior women.

Fr. Burrell said that two amendments seemed possible: to allow the committee to elect one of its tenured women as chair, or to allow the committee to elect as chair one of its women holding full professorial rank. After some discussion, he proposed that the University Committee on Women elect one of its tenured women to serve as chair. The amendment was seconded. Dean Kolman said that the amendment demonstrated respect for the election of committee leadership and widened the pool of mature women who could be elected chair. The amendment was accepted without dissent by the council. The recommendations made by the Ad Hoc Subcommittee for the new constitution for the University Committee on Women were then approved without dissent.

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Finally, Prof. Doordan, speaking for Dr. Weigert, proposed changing the name of the University Committee on Women Faculty and Students to the University Committee on Issues of Gender Equity for Faculty and Students. The motion was seconded. In the discussion that followed, Prof. Doordan said that the committee will deal with issues that are not only about and for women, but that are about social justice and gender equity on a broader scale. Dean Attridge said that the proposal had been brought to the subcommittee by Dr. Weigert, a subcommittee member. However, the subcommittee did not adopt the recommendation, largely because it felt that gender equity could be construed in a restrictive way; the subcommittee desired to leave the mandate of the committee as open as possible. The motion was rejected by a voice vote.

3. Statement of Principles for Intercollegiate Athletics. Fr. Beauchamp distributed to the Academic Council revised copies of the University of Notre Dame Statement of Principles for Intercollegiate Athletics. (See Attachment B.) Other than minor word changes, the document matched those received earlier in the week by the council. Fr. Beauchamp reminded the council that late last academic year the Faculty Senate made several recommendations concerning the role of the Faculty Board on Athletics and requested that a statement on athletics be included in the *Faculty Handbook*. The faculty board promised to return to the council with such a statement, taking as its starting point Fr. Malloy's 1987 Statement on Intercollegiate Athletics.

Fr. Beauchamp said that the faculty board has worked on the statement during the past several months. Concurrently, the faculty board and the University have been involved in a major self-study of the University's athletic program, as required for National Collegiate Athletic Association (NCAA) certification in 1997. One item required in the review is a mission statement on athletics. An initial draft of the Statement of Principles for Intercollegiate Athletics was discussed by the Academic Council in December. In addition, the draft was reviewed by several other University groups, including the NCAA Certification Self-Study Steering Committee and its four subcommittees, the Officers of the University, the Athletic Affairs Committee, the Board of Trustees and the Faculty Senate. The reviews were responded to as deemed appropriate, resulting in the document before the council today.

Turning his attention to the Statement of Principles, Fr. Beauchamp said that its preamble notes how athletics fits into Notre Dame's mission as a Catholic university. This broad look at the University's mission is taken directly from the Colloquy for the Year 2000. The first major section of the document, which also begins with a preamble, focuses on academics. Its first principle explains that the Office of Undergraduate Admissions will not accept a student-athlete who is not capable of succeeding academically at the University by completing a baccalaureate degree. The second principle notes the University's responsibility to assist and enable student-athletes to meet the demands of athletic and academic competition. Once the University admits a student-athlete, it will provide proper academic counsel and support. Principle three states that the University will work to minimize conflicts with class schedules and academic assignments for athletes; particular importance will be paid to the academic calendar and final exams. The fourth principle involves the expectation that student-athletes will maintain a sequence and number of courses and a high enough grade point average to graduate within four years, barring exceptional circumstances. Fr. Beauchamp remarked that this particular principle flies in the face of what is becoming standard practice around the country, where student-athletes graduate in five or six years. The role of the Faculty Board on Athletics is reviewed in principle five, specifically its responsibility to maintain general oversight for academically related matters and policies in the athletic program, as well as its role to help maintain and foster the University's commitment to academic integrity. This principle is taken largely from the statutes that identify the responsibilities of the faculty board.

The second area addressed in the Statement of Principles is Student Life. The preamble states that student-athletes should experience the University in the same way as the rest of the student body, and are to be held to the same standards of conduct. The first principle states that student-athletes are subject to the rules of *du Lac*. Enforcement of the rules is the responsibility of the Office of Residence Life, not the Department of Athletics. Principle two states that most grant-in-aid students will live in residence halls; as required by the NCAA, there will be no separate halls for athletes. The third principle addresses the mental and physical health of student-athletes. Specifically, an athlete's physician or the University physician or other appropriate health and sports training per-

sonnel will decide whether or not he or she is able to compete. The fourth principle reviews the University's policy of regular, random, unannounced drug testing of student-athletes for illicit drug use. The administration of the drug-testing program, including the timing and selection of athletes to be tested, is the responsibility of University Health Services. The fifth principle concerns the provision of chaplains for athletic teams.

The third major area covered in the statement is the Coaching Staff. The preamble identifies the overall responsibilities of the coaches. Coaches are primarily teachers who share with other members of the University the responsibility to educate, train and assist student-athletes. Because of the very public nature of their work, coaches are expected to represent the University's values in word and action. The first principle delineates the executive vice president's responsibility for personnel decisions regarding coaches, in consultation with the Faculty Board on Athletics as appropriate. Principle two states the expectation that coaches will abide by the highest standards of personal conduct. In addition, coaches are expected to appreciate the primacy of academic life at Notre Dame and to emphasize this in all aspects of the recruitment, education and participation of students in intercollegiate athletics, as defined in principle three. Finally, principle four states the expectation that coaches will abide by all rules and guidelines of the NCAA and the University. Any violation will be treated seriously and will be reported according to the standards and procedures of the NCAA.

The final section of the statement focuses on the Athletic Administration. The preamble establishes the lines of authority that exist between the director of athletics, the executive vice president and the president of the University. In addition to having general oversight of athletics, the executive vice president also chairs the faculty board and serves as representative to the NCAA. Unlike the situation at many universities, the president has direct control of athletics through the executive vice president. The first principle states that the University will endeavor to maintain a high-quality, competitive athletic program. Principle two states that the University will maintain full and direct control of all financial operations of the Department of Athletics, including all revenues received. The Department of Athletics and its budget is not separate from the rest of the University; its annual operating budget is subject to the same review and prioritizing as other departments and programs. Principle three states that the University has traditionally had sufficient funds to cover expenses and that it does not raise money for athletics via booster clubs. However, the Monogram Club and other such groups are defined by NCAA rules as booster clubs and are under the direct control of the University. The fourth principle states that the University

will provide a full athletic program, consistent with available financial resources, for men and women. In addition, the University will continue to develop programs and funding for varsity sports for women. The fifth principle states that qualified coaches will be hired who, insofar as possible, reflect the racial, ethnic and gender diversity of the University and society at large. The sixth principle states that the University will align itself with other institutions and conferences who share similar goals, educational philosophies and values. The last principle states that the University will provide sufficient club, intramural and recreational athletic opportunities for all interested students.

Fr. Burrell referred to the third principle under Academics and asked if a playing schedule has ever not been approved because of the rhythm of the academic year. Fr. Beauchamp answered yes, and added that some schedules have been sent back because too many games were too close together and because of a policy that student-athletes can miss a maximum of three classes in regular season competition.

Fr. Burrell then asked about principle two under Coaching Staffs. Specifically, he asked if the word "lifestyle" could be considered prejudicial against homosexual men and women. Fr. Beauchamp said that he did not think so. The statement that coaches are to abide by the standards of the University applies to all people.

Dean Castellino asked about the first principle in the same section. He wondered how involved the Faculty Board on Athletics is with the hiring of coaches. Fr. Beauchamp replied that the faculty board has not historically been responsible for hiring, though they may be apprised in advance of individuals under consideration. Prof. O'Hara added that the faculty board debated their involvement in hiring when they were in the process of amending their policies. They ultimately rejected the idea of micro-involvement in hiring decisions.

Prof. Batill asked about the use of the word "general" in the preamble to the section on Student Life. He asked why student-athletes would be held to the "same general standard of conduct as all other students" and not the "same" standard of conduct. Fr. Beauchamp said that general was not used for a specific reason. Prof. Batill recommended that "general" be removed from the statement.

Prof. Bergstrand asked why principle four in the same section seemed so heavily focused on drug testing rather than drug education. He asked if the drug program itself were more balanced than the principle implied. Fr. Beauchamp said that the principle is worded so strongly because student-athletes are the only students on campus who are subject to drug testing, whether they choose it or

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not. He said that drug counseling is available for studentathletes and is required if a student tests positive for drugs. However, the principle might seem more focused on drug testing because the University has a strong testing program, stronger than required by the NCAA and stronger than that of any other institution.

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Fr. Malloy interjected that he has been involved for many years at the national level with the question of drugs, including alcohol. He said that when he first got involved with the problem, he believed drug education to be a central component of the solution. However, he has since become convinced that sanctions against drug use affect behavior more than anything else. Notre Dame's drugtesting program has evolved over the years to where it is now because of what Fr. Malloy and others perceived long ago to be a changing attitude toward drugs among students and their peers. But why single out student-athletes? Fr. Malloy said that the most compelling argument for the program as it exists is that student-athletes have the most to gain from certain kinds of drug use. The University needs to continue to have good education programs and opportunities for students with uncovered drug problems. However, Fr. Malloy said, education and counseling opportunities alone would not have made the kind of impact the University's drug-testing program has.

Fr. Beauchamp said that student-athletes who test positive for drugs are pulled out of practice, must undergo drug counseling and their parents are generally notified. An offending student cannot return to practice or competition until he or she is clear of all drugs. Upon returning, that student can expect to be tested more often, though the tests will remain random. If the student tests positive again at any point in his or her University career, even years later and for a different drug, he or she will never again be allowed to participate in University athletics, and his or her grant-in-aid may be revoked.

Dean Link commented that he has served as counsel to the trustees' Athletic Affairs Committee and has had the responsibility of observing the University's drug-testing program, which he believes to be very well run. He said that the program is professionally administered and that the students' privacy is protected. Dean Link said that he is convinced that it would be impossible for a studentathlete to have a long-term drug problem that was not detected by the University.

Prof. Porter commented that alcohol abuse is not mentioned in the Statement of Principles. Though she assumes it would be covered in the principle on standard conduct, she wondered if there is a need for a more explicit policy for student-athletes. Fr. Malloy said that the University continues to discuss with vigor the problem of alcohol abuse. However, he knew of no evidence that alcohol abuse is a greater problem for student-athletes than it is for the general student population, as may be the case for steroids and performance drugs.

Elaborating upon Fr. Beauchamp's earlier remarks, Prof. O'Hara noted that this section of the Statement of Principles begins with the promise that in the area of student life, student-athletes are held to the same standards of conduct and are subject to the same discipline procedures as all other students. This would include the University's policy on the use and abuse of alcohol and the University's ban on possession or use of illegal drugs. The reason that the Statement of Principles singles out drug testing for additional discussion is that this is one area of student life in which student-athletes are held to a different and higher standard. Unlike other students, student-athletes are subject to unannounced drug testing.

Prof. Doordan asked why the word "Christian" is used instead of "Catholic" in the second paragraph of the introductory preamble to the Statement of Principles. He wondered if it had anything to do with the percentage of student-athletes who are not Catholic. Fr. Beauchamp said that the percentage of Catholic student-athletes depends on the sport. The football team, for example, is about 60 percent Catholic, but most other sports more closely mirror the percentage of Catholic students at the University. He also explained that the initiative for including this particular paragraph in the preamble came from the Subcommittee on Rules and Compliance; they felt it was necessary to have a specific statement that tied into the University's role as a Catholic institution. However, the faculty board was more comfortable with the term "Christian," which was felt to be broader, since the University had already been identified as "Catholic." Prof. Howard also said that "Christian" was used because it seemed to embody the focus of the paragraph, i.e., the development of the human spirit as well as the body, student excellence in all endeavors, etc.

After commending Fr. Beauchamp on the statement, Fr. McBrien asked him three questions on behalf of the Faculty Senate. First, he asked if Fr. Beauchamp felt that the role of the president is made clear enough in the statement, particularly the fact that the president has ultimate responsibility for athletics. He pointed out that the president is mentioned only once in the statement, in the preamble to the section on Athletic Administration. He asked if this lone mention satisfied the faculty board and if it complied with recommendations of the Knight Commission? Fr. Beauchamp replied that the faculty board is satisfied because it describes what truly happens at Notre Dame: The president has operational control over athletics through the executive vice president. Fr. Beauchamp explained that the Knight Commission's intent is to make it clear that university athletic departments are not



separate entities. He concluded by saying that Fr. Malloy is also satisfied with the statement on this point.

Next, Fr. McBrien asked why the Faculty Board is only described as "helping" to maintain and foster the commitment of the University to academic integrity (see Academics, principle five). Fr. Beauchamp said that "helping" was intentionally used here because the responsibility it describes belongs to everyone in the University who is involved in athletics: coaches, administrators, staff, the Faculty Board, etc. While it is true that the faculty board has a specifically delineated responsibility in this regard, it is not the responsibility of only the faculty board.

Finally, Fr. McBrien asked if there is any kind of annual reporting mechanism that apprises the faculty of studentathletes' progress toward graduation and that lists graduation rates, etc. Fr. Beauchamp said that such a report is submitted to the faculty board and that though it is included in the minutes, it is not published in *Notre Dame Report*. He further explained that the kinds of figures often seen in newspapers are annually submitted to the NCAA by the University. Those figures, which are public, could be published in *Notre Dame Report*. Fr. McBrien suggested that it might be a good idea to publish some form of the document that is submitted to the NCAA. This might satisfy the need that some perceive for the faculty board to annually report on matters of interest in athletics.

Fr. Malloy then called the council to vote on the proposed University of Notre Dame Statement of Principles for Intercollegiate Athletics, to be included in the policies section of the *Faculty Handbook*. The statement was adopted by unanimous vote of the council.

Before concluding the meeting, Fr. Malloy asked for reports from the council's standing committees. Prof. Delaney reported that the Undergraduate Studies Committee recently discussed the registrar's proposal with regard to restrictions of withdrawals and grading policies. This proposal will be brought before the council in the near future. The committee has also continued to discuss international studies opportunities, and their discussions were greatly informed by pleasant contacts with Fr. Scully, who visited the committee and described the larger umbrella of his efforts in internationalization. Mr. Zeugner reported that the Faculty Affairs Committee has proposed, for the Executive Committee's consideration, that the chairs of the standing committees of the Academic Council be members of the Executive Committee. Prof. Sommese reported that the Graduate Studies Committee heard a presentation by the Graduate Student Union on the needs and concerns of University graduate students. Of particular interest was the students' desire to see changes made in student representation on the Academic Council. Graduate Studies also spent time in initial discussion of the new Procedures for Review of Academic Departments.

There being no additional business, the meeting was adjourned at 4:25 p.m.

Respectfully submitted by

Rev. Timothy R. Scully, C.S.C. Vice President and Associate Provost

Attachment A

University Committee on Women Faculty and Students

The University Committee on Women Faculty and Students will consist of sixteen (16) elected and appointed representatives from the faculty and students of the University. Twelve members of the committee will be elected and four appointed by the President. Of the twelve, six will be elected from the teaching and research faculty of the College of Arts and Letters (2), the College of Business (1), the College of Engineering (1), the Law School (1), and the College of Science (1), one will be elected from the Library Faculty (1), and one from the Special Professional Faculty of the University (1). Four students, two undergraduates and two graduates, will be selected to serve by the appropriate elected representatives (Student Government and Graduate Union). The remaining committee members will be appointed by the President. Elected committee members will serve staggered threeyear terms. Appointed members serve one-year renewable terms. No one will serve for more than six (6) consecutive years. The committee will elect as chair one of the tenured women serving on the committee. One of the appointed members will serve as liaison to the University's academic administration. The chair and one member of the committee will serve as a liaison to a University Committee on Women Staff, upon the establishment of such a committee.

The University Committee on Women Faculty and Students will consider policies, practices and the general environment at the University as they relate to women faculty and students. The Committee will serve in an advisory capacity reporting to the President through the Provost. The committee may make recommendations for action to the President, or, as he directs, for action to the other Officers of the University and the Academic Council. The committee should meet regularly and should publish a record of its deliberations in *Notre Dame Report*.

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Attachment B

University of Notre Dame Statement of Principles for Intercollegiate Athletics

Throughout its long and proud tradition of participation in intercollegiate athletics, the University of Notre Dame has embraced the philosophy that a well-rounded athletics program - including club, intramural and intercollegiate competition — is an integral part of its educational mission. This philosophy also recognizes the importance of maintaining athletic programs in proper perspective in accord with the mission of the University as a Catholic institution of higher education. For this reason, Notre Dame is dedicated to the principle that the pursuit of excellence in intercollegiate athletics must be accomplished within the framework of an academic community committed to its educational objectives. Notre Dame is committed to the principle of firm institutional control of athletics, and to the unquestioned integrity of its athletic programs. Those individuals responsible for the athletic program are expected to foster and maintain the values and goals associated with the mission of the University as an institution of higher education.

As a Catholic university, Notre Dame is committed to Christian values and principles as these have been expressed in our tradition throughout the University's history. These include the development of the human spirit as well as the body, the pursuit of excellence in all endeavors, the nurturing of Christian character and the call to personal integrity and acceptance of personal responsibility. This document articulates the central values and expectations which guide the participation of the University of Notre Dame in intercollegiate athletics by providing a general description of the structures which support these endeavors.

Academics

The University is dedicated to the mission of providing all of its students an education of the highest quality. Notre Dame is committed to being an environment of teaching and learning which fosters the development in its students of those disciplined habits of mind, body and spirit which characterize educated, skilled and free human beings. The University seeks to put students in touch with the wisdom of our culture and religious heritage, and to help them experience the diversity and interdependence of the human family. To accomplish these objectives, the University is committed to providing, on an equitable basis, ongoing opportunities that develop the moral, intellectual and physical welfare of its students.

Basic Principles:

1. For any student at the University to be successful, a certain level of ability and preparation is required. Therefore, the Office of Undergraduate Admissions will accept into the University only those student-athletes who demonstrate, on the basis of the best available testing instruments and other information, the capacity to complete a baccalaureate degree at Notre Dame.

2. Even for those well suited by training and endowment, the adjustment to the rigors of academic life in a highly competitive university setting may be difficult. The University recognizes its responsibility to enable student-athletes to meet the demands of both academic and athletic competition, and to assist them appropriately. To this end, once the University admits a student-athlete, it will provide proper academic counsel and support.

3. At Notre Dame, in the arrangement of schedules for practice and competition, it is of paramount importance to minimize conflicts with the class schedules and academic assignments of student-athletes. Special attention will be paid to the rhythm of the academic year and the particular importance of final examinations. All playing schedules must be approved by the Faculty Board on Athletics.

4. It is expected that student-athletes will normally maintain the appropriate sequence and number of courses and a high enough grade point average to complete a baccalaureate degree in four years (including summer school classes). Rare exceptions will be recognized if academic programs or personal circumstances dictate otherwise.

5. The Faculty Board on Athletics has general oversight responsibility for academically related matters and policies in the athletic program, as well as for helping to maintain and foster the commitment of the University to academic integrity within the athletic program. In this capacity, the Faculty Board on Athletics has the responsibility to approve all playing schedules; to review at least annually statistical and other relevant information on the admission of student-athletes, their academic performance and progress toward a degree, graduation rates and other related data; and to assess the effectiveness of academic support offered to student-athletes.

Student Life

The student-athlete is first of all a student who should experience the University of Notre Dame in the same way as the rest of the student body. Each student-athlete is held to the same standard of conduct as all other students.



Basic Principles:

1. Student-athletes are subject to all University rules and guidelines printed in the student handbook *du Lac*. Enforcement of these rules is the responsibility of the Office of Residence Life and its staff according to standard procedures used for all student disciplinary matters.

2. As a residential university, where the majority of students live in on-campus housing, student-athletes will normally live in residence halls. Furthermore, there will be no separate residence halls or sections of residence halls for student-athletes. The goal is to have studentathletes completely integrated into the student body.

3. The physical and mental health of all members of the Notre Dame community are primary concerns of the University. Because of the dangers inherent in athletic competition, the prevention of injuries and medical care for student-athletes are of particular concern and deserve constant attention. The determination of whether a student-athlete's health and/or recovery from an injury precludes that student from practicing or competing is to be made solely by the appropriate health and sports training personnel.

4. Because of the harm connected to illicit drug use in our society, particular attention is to be given to providing education and counsel for student-athletes and all other students with regard to this matter. As a preventive measure, there is regular, random, unannounced drug testing of student-athletes. The results of these tests and the consequences of a positive test are dealt with according to the established drug policy of the University for student-athletes. The administration of the drug-testing program, including the timing and selection of studentathletes for drug-testing, is the responsibility of University Health Services.

5. Chaplains are regularly provided for athletic teams. Their duties will include pastoral care and liturgical service for athletes, coaches and staff.

Coaching Staffs

The University will strive to maintain a coaching staff of men and women who represent the best in athletic instruction and who possess the ability to motivate and inspire the student-athletes for whom they are responsible. Coaches are primarily teachers. They share with members of the faculty and other University personnel the responsibility to educate, train and assist in the formation of students entrusted to them. Because of the public nature of their work, coaches represent the University. Their words and actions should therefore reflect the values and principles of Notre Dame. Furthermore, the University community recognizes the important role coaches play in the overall educational mission of Notre Dame and makes this aspect of the coaches' jobs an important part of their job description and evaluation.

Basic Principles:

1. The executive vice president, in consultation with the director of athletics, is responsible for personnel decisions concerning coaches. The Faculty Board on Athletics is empowered to consider standards for appointment of coaching personnel and, where appropriate, should be consulted in the hiring process. Normally, coaches will be hired initially for a specified period of time.

2. Coaches are expected to abide by the highest standards of personal conduct, and are expected to be role models for their student-athletes in how to pursue success with integrity. Coaches have regular contact with the students they coach. They have the opportunity to influence the student-athletes not only by the values they espouse but by their lifestyles as well.

3. Coaches are expected to appreciate the primacy of academic life at Notre Dame and to emphasize this aspect in all activities associated with the recruitment, education and participation of students in intercollegiate athletics.

4. Coaches are held to the guidelines and rules agreed upon by the member institutions of the National Collegiate Athletic Association (NCAA) as well as those established by the University. This applies to recruitment, financial aid, team discipline and related matters. Any violation of these standards will be treated with utmost seriousness and will be reported to the NCAA according to the standards and procedures of that association.

Athletic Administration

The director of athletics and his or her staff are directly responsible for the administration of the athletic programs at Notre Dame. The director of athletics reports to the executive vice president, who has general oversight responsibility for the athletic program. The executive vice president, who answers directly to the president of the University, also chairs the Faculty Board on Athletics and serves as the faculty athletics representative to the NCAA.

Basic Principles:

1. Notre Dame will endeavor to maintain a high-quality, competitive athletic program consistent with its tradition and heritage. If and when problems arise, action will be taken consistent with principles of justice, due process and, where applicable, confidentiality.

2. The University will maintain full and direct control of the financial operations of the Department of Athletics, including all revenues received from whatever source. The annual operating budget and the ongoing financial activities of the Department of Athletics are subject to the same process of review and approval as are all other operating units of the University. Furthermore, funding for the intercollegiate athletic program is subject to the same process of setting priorities as are the rest of the departments and programs of the University.

3. Historically, the athletic program of the University has generated sufficient funds to cover expenses attributable to the Department of Athletics as well as providing additional funds for the general operating budget of the University. The generation of such revenue must always take into consideration the integrity of the institution and its identifiable priorities. Booster clubs as defined by the NCAA and all other such entities are under the direct control of the University.

4. A full athletic program, consistent with the financial resources available, the athletic interests of the student body, and the overall academic mission and program of the University, will be provided for men and women student-athletes. Notre Dame will continue its commitment to develop additional programs and increased funding for women's varsity sports programs so that equity prevails in the opportunities made available to all student-athletes.

5. The University is committed to the hiring of qualified coaches and other Department of Athletics personnel who, insofar as possible, reflect the racial, ethnic and gender diversity of both the broader University community and society at large. As positions become available, every reasonable attempt will be made to accommodate this commitment in departmental hiring.

6. The University will strive to associate itself in conference affiliation and intercollegiate competition with institutions having similar educational philosophies and goals, as well as a similar commitment to integrity in their athletic programs and to the rules and principles promulgated by the NCAA.

7. Club, intramural and recreational athletic opportunities will be provided sufficient support so that all students may, if they desire, participate in some form of organized athletic activity.

Conclusion

In summary, as an institution, Notre Dame will pursue a standard of achievement in athletics consistent with its overall mission as a Catholic university. It will attempt to excel in every form of intercollegiate athletics without distorting its primary role as an educator and moral guide. Athletic programs are to be conducted in such a manner as to complement the goals of the commitment of the University to education, as well as the letter and spirit of the rules and regulations of the NCAA.

Faculty Board on Athletics Spring 1996

January 29, 1996

In attendance: Rev. E. William Beauchamp, C.S.C., chair; Professor Alexander Hahn; Professor Kathleen Halischak, recorder; Professor George Howard; Professor David Kirkner; Ms. Sheryl Klemme; Professor Patricia O'Hara; Mr. Michael Wadsworth

Absent: Professor JoAnn DellaNeva; Professor William Nichols; College of Science representative, Law School representative

The meeting was called to order at 4:37 p.m.

Father Beauchamp led a prayer for the repose of the soul of Professor George Craig, whose presence is greatly missed.

The minutes of the December 7, 1995, meeting were accepted.

1. Father Beauchamp presented for board consideration the playing schedule for lacrosse. The board voted approval.

2. Father Beauchamp presented for board consideration the monograms for cheerleaders, volleyball and women's soccer. The board voted approval.

3. Father Beauchamp presented for board consideration Jenny Birkner as the captain candidate for volleyball. The board voted approval.

4. Father Beauchamp and Mr. Wadsworth introduced the topic of the ND-Navy football game to be played in Dublin, Ireland, this November. Mr. Wadsworth asked if it would be possible for the team to have enough time in Ireland to experience some of its history and culture. In fact, he would like to arrange a team visit to Belfast, Northern Ireland, in addition to several visits in and around Dublin. In order for there to be sufficient time, the team would have to leave Notre Dame Tuesday night. A discussion ensued regarding the number of class absences that would be taken by the football team. The total number did not seem to exceed the limit. Mr. Wadsworth stated that he would discuss the travel plans of the football team with Mr. Cunningham, the business manager, and inform the board of the number of class absences for the season. Professor Howard spoke in favor of sending the team early, stating that if an exception had to be made, it should be because of the unique opportunity that the Ireland trip presents. Other board members spoke in support of Professor Howard's resolution.

5. Dr. Halischak presented a summary on the academic performance of student-athletes during the fall semester. She outlined the number of graduating students, students on the dean's lists, in good standing, on probation and dismissed. In addition, she provided semester and cumulative gpa's for each sport.

6. Father Beauchamp distributed to the board copies of responses to the draft of his "Statement of Principles for Intercollegiate Athletics." The responses came from Scott Appleby (Subcommittee on Compliance, NCAA Certification Committee) and from Fr. Dick McBrien (Faculty Senate). Father Beauchamp then discussed their points and his proposed response to each. Additionally, he asked the board members for their suggestions and approval.

7. Professor Hahn raised the question of the possibility of a conflict arising between final exams and NCAA competitions. He wanted to discuss what types of contingency plans would be appropriate. Father Beauchamp asked Professors Hahn and Halischak to gather more information and suggestions. They are to report at the next meeting.

The meeting was adjourned at 5:55 p.m.

February 26, 1996

In attendance: Rev. E. William Beauchamp, C.S.C., chair; Professor JoAnn DellaNeva; Professor Morton Fuchs; Professor Alexander Hahn; Professor Kathleen Halischak, recorder; Professor George Howard; Professor David Kirkner; Ms. Sheryl Klemme; Professor James McAdams; Professor Patricia O'Hara; Professor Eric Smithburn; Mr. Michael Wadsworth

Absent: Professor William Nichols; Professor Frank Reilly

The meeting was called to order at 4:40 p.m.

The minutes of the January 29, 1996, meeting were accepted.

1. Father Beauchamp presented for board consideration Tony Capasso, Brian Engesser and Peter Gansler as the captain candidates for men's soccer. The board voted approval.

2. Mr. Wadsworth asked the board to consider an invitation for the men's basketball team to participate in the 1999 NIT preseason tournament. Mr. Wadsworth stated





that the team would not miss more than the approved number of classes and that possibly some games of the tournament may be played here at Notre Dame. The board voted approval for the team's participation.

3. Father Beauchamp led a discussion of his "Statement of Principles for Intercollegiate Athletics." The board made suggestions regarding the wording and ordering of ideas in the document. Father Beauchamp stated that the final version will be presented to the Academic Council in March.

The meeting was adjourned at 6:35 p.m.

March 20, 1996

In attendance: Rev. E. William Beauchamp, C.S.C., chair; Professor Morton Fuchs; Professor Alexander Hahn; Professor Kathleen Halischak, recorder; Professor George Howard; Professor David Kirkner; Professor James McAdams; Professor William Nichols; Professor Patricia O'Hara; Professor Frank Reilly; Professor Eric Smithburn; Mr. Michael Wadsworth

Absent: Professor JoAnn DellaNeva; Ms. Sheryl Klemme

The meeting was called to order at 4:37 p.m.

The minutes of the February 26, 1996, meeting were accepted.

1. Father Beauchamp distributed copies of his revised "Statement of Principles" and announced that he would present this version at Academic Council on March 21, 1996. Professor Fuchs provided additional pages of suggestions that Father Beauchamp agreed to consider and work into the document if possible.

2. Father Beauchamp presented for board consideration the playing schedules for men's soccer and volleyball. The board voted approval.

3. Father Beauchamp presented for board consideration the applications for fifth year eligibility in football from Jeremy Akers, Kevin Carretta, Peter Chryplewicz, Alton Maiden, Billy Wagasy and Renaldo Wynn. After a discussion of each candidate and the merits of his application, the board voted approval for all.

4. Father Beauchamp asked Professors Hahn and Halischak for an update on their subcommittee work. Professor Hahn reported that he and Professor Halischak have spoken to several of the deans regarding the possible conflicts of athletic events and final examinations. The goal of the subcommittee is to work toward and have in place a policy that would address this problem and provide solutions. The final report is expected at the April meeting.

Father Beauchamp announced that the main business of the April meeting will be the Byron W. Kanaley Award.

The meeting was adjourned at 6 p.m.

April 15, 1996

OCUMENTATION

In attendance: Rev. E. William Beauchamp, C.S.C., chair; Professor JoAnn DellaNeva; Professor Morton Fuchs; Professor Alexander Hahn; Professor David Kirkner; Ms. Sheryl Klemme, recorder; Professor James McAdams; Professor William Nichols; Professor Patricia O'Hara; Mr. Michael Wadsworth

Absent: Professor Kathleen Halischak; Professor George Howard; Professor Frank Reilly; Professor Eric Smithburn

The meeting was called to order at 4:43 p.m.

The minutes of the March 20, 1996, meeting were accepted.

1. Father Beauchamp presented for board consideration the playing schedule for women's soccer. The board voted approval.

2. Father Beauchamp presented for board consideration a recommendation for monogram awards in men's basketball and hockey. The board recommended approval of the monograms.

3. Father Beauchamp presented for board consideration the captain candidates for women's swimming: Amy Bostick and Erin Brooks. After a discussion of the candidates' credentials, the board voted approval.

4. Father Beauchamp presented for board consideration the applications for fifth year eligibility in men's tennis from Marco Magnano and in track from Mike Fleisch. After a discussion of each candidate and the merits of his application, the board voted approval for both.

5. Father Beauchamp asked the board to consider whether the two recently elected "at-large" board members should have staggered terms. The board also discussed the length of the term of each at-large member. The board resolved that the terms of those elected at-large will end in 1998.



6. Professor Nichols brought up an issue dealing with scheduling and volleyball practice. He stated that it was his understanding that for next fall the volleyball team has scheduled early practices that apparently interfere with class time. Father Beauchamp pointed out that such practice time is contrary to the established guidelines. Mr. Wadsworth agreed to speak with the volleyball coach about this apparent conflict. (Later discussions revealed that that conflict arose because the coaches had not been informed of the change in the class times for next fall.)

7. Father Beauchamp presented nominations for the Byron V. Kanaley Award, which is annually awarded to the senior monogram athlete who is most exemplary as a student-athlete and as a leader. After reviewing the credentials of the various nominees, the board unanimously recommended that the Byron W. Kanaley Award for 1995–96 be presented to the following student-athletes: Claudette deBruin, Wendy Crabtree, Mike Fleisch and Marcus Thorne.

The meeting was adjourned at 6 p.m.

April 29, 1996

In attendance: Rev. E. William Beauchamp, C.S.C., chair; Professor JoAnn DellaNeva; Professor Morton Fuchs; Professor Alexander Hahn; Professor Kathleen Halischak, recorder; Professor David Kirkner; Ms. Sheryl Klemme; Professor James McAdams; Professor William Nichols; Professor Patricia O'Hara; Mr. Michael Wadsworth

Absent: Professor George Howard; Professor Frank Reilly; Professor Eric Smithburn

The meeting was called to order at 4:40 p.m.

The minutes of the April 15, 1996, meeting were accepted with a clarification of Item #6 which dealt with a conflict of team practice and class schedules in the fall. (See April 15 minutes for specifics.)

1. Father Beauchamp presented for board consideration the playing schedule for football. The board voted approval, noting the additional class miss due to travel to Ireland. Father Beauchamp also pointed out the unusual Thursday class absences due to the Thursday night game (September 5) at Vanderbilt and the trip to Ireland.

2. Father Beauchamp presented for board consideration a recommendation for monogram awards in men's swimming, women's swimming and men's tennis. The board recommended approval of the monograms.

3. Father Beauchamp presented for board consideration the names of Matthew Rose as the captain candidate for men's swimming and Marco Magnano and Ryan Simme for men's tennis. After a discussion of the candidates' credentials, the board voted approval.

4. Father Beauchamp presented for board consideration the applications for fifth year eligibility in football from Joe Babey and David Quist. After a discussion of each candidate and the merits of his application, the board voted approval for both.

5. Mr. Wadsworth presented an idea for an award named in honor of the late George Craig. This award would be presented to a coach whose team achieves both academic and athletic excellence. The members of the board expressed unanimous support for the award. Father Beauchamp appointed a subcommittee to determine the criteria and stipend for the award. Professor O'Hara suggested that the award be given annually at the President's Dinner.

6. Mr. Wadsworth brought to the board a petition to add two new varsity teams: women's lacrosse and women's crew. Mr. Wadsworth detailed the studies done by the Department of Athletics to determine the interest and demand for new women's programs, noting that lacrosse and crew proved to be the most viable. He added that the athletic department would add additional scholarships in other women's programs. These additional scholarships and the two new sports would bring the athletic programs closer in line with the gender distribution of the University. Women's lacrosse would begin in the fall of 1996 and crew the following year. After a number of questions by board members, the board voted to approve the addition of these new sports.

7. Professors Hahn and Halischak presented an update on their discussions with the deans regarding the conflicts between final exams and postseason competitions. The board agreed to present a final version for the deans' approval.

8. Father Beauchamp noted that the board members have received copies of the University self-study subcommittee reports. As part of the NCAA certification process, Father Beauchamp asked the board to read these reports and prepare comments for a discussion to be held May 14. He stated that the sole purpose of this meeting will be to discuss these subcommittee reports.

9. Mr. Wadsworth asked the board for approval to allow the women's basketball team to play in the NIT preseason tournament. Noting that the team would not violate the class absence policy, Mr. Wadsworth pointed that the opening rounds of this event may be played at Notre Dame. Board members asked several questions and then voted to approve play in the NIT preseason tournament.

The meeting was adjourned at 6:35 p.m.

May 14, 1996

In attendance: Rev. E. William Beauchamp, C.S.C., chair; Professor Morton Fuchs; Professor Alexander Hahn; Professor Kathleen Halischak, recorder; Professor George Howard; Professor David Kirkner; Professor James McAdams; Professor William Nichols; Professor Patricia O'Hara; Professor Frank Reilly; Mr. Michael Wadsworth

Absent: Professor JoAnn DellaNeva; Ms. Sheryl Klemme; Professor Eric Smithburn

The meeting was called to order at 12:16 p.m.

The minutes of the April 29, 1996, meeting were accepted.

1. Father Beauchamp presented for board consideration a recommendation for a monogram service award for Clifford Stroud in football. The board recommended approval of the monogram.

2. Father Beauchamp presented for board consideration a recommendation for monogram awards in men's golf, women's golf, softball and men's tennis. The board recommended approval of the monograms.

3. Father Beauchamp presented for board consideration the following names as captain candidates for their respective sports: Robert Kizer and Francesca Pelliccio for varsity cheerleading; Paul Burke and Kathryn Fracisco for olympic sports cheerleading; Brian Donohoe and Joel Hepler for men's golf; Lacey Canvesi, Katherine King and Tracy Melby for women's golf; and Erin Gowen for women's tennis. After a discussion of the candidates' credentials, the board voted approval.

4. Father Beauchamp presented for board consideration the application for fifth year eligibility in men's basketball from Keith Kurowski. After a discussion of the merits of his application, the board voted approval for Keith Kurowski.

5. Professors Hahn and Halischak presented an update on their discussions with the deans regarding the conflicts between final exams and postseason competitions. The board agreed to present a final version for the deans' approval. 8. Father Beauchamp noted that the board members have received copies of the University self-study subcommittee reports. As an overview of the NCAA certification process, Father Beauchamp asked the following subcommittee chairpersons to report on the work of their groups: Professor McAdams on academic integrity; Professor O'Hara on goverance subcommittee report; and Professor Nichols on fiscal integrity.

The meeting was adjourned at 2:25 p.m.



Current Publications and Other Scholarly Works

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

COLLEGE OF ARTS AND LETTERS

Anthropology

Gaffney, Patrick D., C.S.C.

- P. D. Gaffney, C.S.C. 1996. Review of Beyond the written word: Oral aspects of scripture in the history of religion, by W. A. Graham. International Journal of Middle East Studies 28 (3): 253-255.
- Press, Irwin
 - I. Press. 1996. Patient satisfaction will lead health care quality. In Proceedings of the 50th Congress of the American Society for Quality Control, 685-690.

Economics

You, Jong-Il

J-I. You and A. K. Dutt. 1996. Government debt, income distribution and growth. *Cambridge Journal of Economics* 20 (3): 335-351.

Dutt, Amitava K.

See under You, Jong-Il. 1996. Cambridge Journal of Economics 20 (3): 335-351.

Government and International Studies

Mainwaring, Scott P.

- S. Mainwaring. 1996. Review of D. Close, ed., Legislatures and the new democracies in Latin America. *American Political Science Review* 90 (1): 213-214.
- S. Mainwaring. 1995. Presidencialismo, multipartidismo y democracia: La difícil combinación. *Revista de Estudios Políticos* 20 (88): 115-144.
- S. Mainwaring. 1995. Political parties and democratization in Brazil. *Latin American Research Review* 30 (3): 177-187.

Program of Liberal Studies

Weinfield, Henry M.

H. M. Weinfield. 1996. Review of *The fiction of the poet: From Mallarmé to the post-symbolist mode,* by A. Balakian. *The Wallace Stevens Journal* 20 (1): 123-127.

Sociology

Dasilva, Fabio B.

C. A. Pressler and F. B. Dasilva. 1996. *Sociology and interpretation: From Weber to Habermas*. Albany, N.Y.: State University of New York Press. 179 pp.

COLLEGE OF SCIENCE

Chemistry and Biochemistry

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M. C. Roque, P. A. Smith and V. C. Blasquez. 1996. A developmentally modulated chromatin structure at the mouse immunoglobulin K 3' enhancer. *Molecular and Cellular Biology* 16 (6): 3138-3155.

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Fehlner, Thomas P.

- A. N. Patil, M. A. Banares, X. Lei, T. P. Fehlner and E. E. Wolf. 1996. Selective hydrogenation of 2-butenal using cluster of clusters-based catalysts. *Journal of Catalysis* 159:458-472. Article # 0110.
- See under Wolf, Eduardo E. 1996. *Inorganic Chemistry* 35:3217-3222.

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C. I. Ma, D. M. Hanson, K. Lee and R. G. Hayes. 1995. Dynamical behavior of electronic states of NH₃^{2*} prepared from NIs ionization of ammonia. *Journal of Electron Spectroscopy and Related Phenomena* 75:83-95. Miller, Marvin J.

T. J. Brickman, J-G. Hansel, M. J. Miller and S. K. Armstrong. 1996. Purification, spectroscopic analysis and biological activity of the macrocyclic dihydroxamate siderophore alcaligin produced by *Bordetella pertussis* and *Bordetella bronchiseptica*. *BioMetals* 9:191-203.

Scheidt, W. Robert

B. Cheng and W. R. Scheidt. 1996. (Ethanol)(2,3,7,8,12, 13,17,18-octaethylporphinato)manganese(III) Perchlorate. *Acta Crystallographica Section C* 585-588. Thomas, J. Kerry

- J. K. Thomas and S. Mann, eds. 1996. *Current opinion in colloid and interface science materials aspects*. 1 (2).
- J. K. Thomas and S. Mann. 1996. Materials aspects editorial overview. In *Current opinion in colloid in interface science* 1:173-175.

Mathematics

Dwyer, William G.

W. G. Dwyer and C. W. Wilkerson. 1996. Diagrams up to cohomologh. *Transactions of the American Mathematical Society* 348 (5): 1863-1883.





Physics

Ruggiero, Steven T.

T. B. Ekkens, S. Nolen and S. T. Ruggiero. 1996. Tunnel barrier properties of oxidized bismuth droplets on Al₂O₃. *Journal of Applied Physics* 79 (9): 7392-7394.

COLLEGE OF ENGINEERING

Aerospace and Mechanical Engineering

Gad-el-Hak, Mohamed

M. Gad-el-Hak. 1996. Prospects for computing high-Reynolds-number turbulent flows. In *Proceedings of the Third World Conference in Applied Computational Fluid Dynamics*, eds. A. Müller, B. Löffler, W. Habashi and M. Bercovier, 16.1-16.12. Basel, Switzerland: Druck und Medien Zentrum.

Paolucci, Samuel

O. V. Vasilyev and S. Paolucci. 1996. A dynamically adaptive multilevel wavelet collocation method for solving partial differential equations in a finite domain. *Journal of Computational Physics* 125 (2): 498-512.

Chemical Engineering

Maginn, Edward J.

E. J. Maginn, A. T. Bell and D. N. Theodorou. 1996. Dynamics of long n-alkanes in silicalite–A hierarchical simulation approach. *Journal of Physical Chemistry* 100 (17): 7155-7173.

Wolf, Eduardo E.

- X. Lei, M. Shang, A. Patil, E. E. Wolf and T. P. Fehlner. 1996. Synthesis and structure of an extended cluster lead(II) carboxylate, [Pb{(CO)9Co3(μ3-CCO2)}2]n. Role of core metals in cluster-derived hydrogenation catalysts. *Inorganic Chemistry* 35:3217-3222.
- See under Fehlner, Thomas P. 1996. *Journal of Catalysis* 159:458-472. Article # 0110.

Computer Science and Engineering

- Chen, Danny Z.
 - D. Z. Chen, X. Hu and P. J. Blatner. 1996. Efficient algorithms for orthogonal polygon approximation. In *Proceedings of the 1996 IEEE International Symposium on Circuits and Systems,* Atlanta, Georgia. Volume 4 (May): 779-782.
 - D. Z. Chen and K. S. Klenk. 1996. Rectilinear short path queries among rectangular obstacles. *Information Processing Letters* 57 (6): 313-319.

Electrical Engineering

Bauer, Peter H.

- U. Premaratne and P. H. Bauer. 1996. Delta-operator formulated discrete-time systems. In *Proceedings of the 1996 International Symposium on Circuits and Systems*, ed. P. E. Allen, 2.528-2.531. Atlanta, Ga.: IEEE.
- A. P. Molchanov and P. H. Bauer. 1996. Robust stability of linear time-varying delta-operator formulated discrete-time systems. In *Proceedings of the 1996 International Symposium* on Circuits and Systems, ed. P. E. Allen, 2.521-2.523. Atlanta, Ga.: IEEE.
- E. C. Kulasehere, K. Premaratne and P. H. Bauer. 1996. Robustness of digital filters with respect to limit cycle behavior under coefficient perturbation. In *Digital Signal Processing Technology-Proceedings of the SPIE*, ed. J. Picoue, 64-74. Orlando, Fla.: SPIE.
- S. Yost and P. H. Bauer. 1996. Stability of shift-variant difference equations with applications to adaptive digital filters. In *Proceedings of the 1996 International Symposium on Circuits and Systems*, ed. P. E. Allen, 2.17-2.20. Atlanta, Ga.: IEEE.
- P. Bauer, R. Castañeda and K. Premaratne. 1996. Zero input behavior of fixed point digital filters in deltaoperator representation. In *Proceedings of the 29th Asilomar Conference on Signals, Systems and Computers,* ed. A. Singh, 972-975. Los Alamitos, Calif.: IEEE.

SCHOOL OF ARCHITECTURE

Lykoudis, Michael N.

- M. Lykoudis and J. Montgomery. 1996. Blacksburg civic center design proposal (urban design project). In *Urban renaissance*, ed. G. Tagliaventi, 236. Italy: Grafis.
- M. Lykoudis and J. Montgomery. 1996. Blacksburg public library (architectural design project). *Archi & Colonne* 1 (3): 8.
- M. Lykoudis. 1996. Lavrio town master plan (architectural and urban design project). In *Urban renaissance*, ed. G. Tagliaventi, 58-59. Italy: Grafis.
- M. Lykoudis. 1995. New Acropolis museum design proposal (architectural design project). *The Classicist* (2):79.
- Stroik, Duncan G.
 - D. G. Stroik. 1996. Chiesa di Nostra Signora di Guadalupe. In Urban renaissance, ed. G. Tagliaventi, 261. Grafis Edizioni, Bologna.
 - D. G. Stroik. 1996. Villa Indiana. *Archi & Colonne* 3 (43): 50-52.

COLLEGE OF BUSINESS

Finance and Business Economics

Bergstrand, Jeffrey H.

J. H. Bergstrand. 1996. Productivity, factor endowments, military expenditures, and national price levels. In *International comparisons of prices, output and productivity*, eds. D. S. Prasada Rao and J. Salazar-Carrillo, 297-317. Amsterdam, The Netherlands: North-Holland (Elsevier).

Tenorio, Rafael A.

R. Tenorio and G. Bucci. 1996. On financing the internal enforcement of illegal immigration policies. *Journal of Population Economics* 9:65-81.

Management

Kohli, Rajiv

G. A. Forgionne and R. Kohli. 1995. The decision value of management support systems for strategic hospital management. *International Transactions of Operational Research* 2 (4): 355-373.

Williams, Oliver F., C.S.C.

O. F. Williams, C.S.C. 1996. The Apartheid struggle: Learnings from the interaction between church groups and business. *Business & The Contemporary World* 8 (1): 151-167.

LAW SCHOOL

Shaffer, Thomas L.

T. L. Shaffer. 1996. On teaching ethics in the law office. *Notre Dame Law Review* 71 (4): 605-618.

RADIATION LABORATORY

Asmus, Klaus-Dieter

K-D. Asmus, R. V. Bensasson, J-L. Bernier, R. Houssin and E. J. Land. 1996. One-electron oxidation of ergothioneine and analogues investigated by pulse radiolysis: Redox reaction involving ergothioneine and vitamin C. *Biochemical Journal* 315:625-629. Kamat, Prashant V.

K. Vinodgopal and P. V. Kamat. 1996. Combine electrochemistry with photocatalysis. *CHEMTECH* 26 (4): 18-22.

K. Vinodgopal, D. E. Wynkoop and P. V. Kamat. 1996. Environmental photochemistry on semiconductor surfaces: Photosensitized degradation of a textile azo dye, acid orange 7, on TiO₂ particles using visible light. *Environmental Science and Technology* 30 (5): 1660-1666. C. Nasr, K. Vonodgopal, L. Fisher, S. Hotchandani, A. K. Chattopadhyay and P. V. Kamat. 1996. Environmental photochemistry on semiconductor surfaces. Visible light induced degradation of a textile diazo dye, naphthol blue black, on TiO2 nanoparticles. *Journal of Physical Chemistry* 100 (20): 8436-8442. See under Liu, Di. 1996. *Langmuir* 12 (9): 2190-2195.

LaVerne, Jay A.

See under Pimblott, Simon M. 1996. *Journal of Physical Chemistry* 100 (20): 8595-8606.

Liu, Di

D. Liu and P. V. Kamat. 1996. Dye-capped semiconductor nanoclusters. One-electron reduction and oxidation of thionine and cresyl violet h-aggregates electrostatically bound to SnO₂ colloids. *Langmuir* 12 (9): 2190-2195.

Madden, Keith P.

K. P. Madden and H. Taniguchi. 1996. *In situ* radiolysis time-resolved ESR studies of spin trapping by DMPO: Reevaluation of hydroxyl radical and hydrated electron trapping rates and spin adduct yields. *The Journal of Physical Chemistry* 100 (18): 7511-7516.

Mezyk, Stephen P.

S. P. Mezyk. 1996. LINAC/LASER determination of the absolute rate constant for thiyl and hydroxyl radical reaction with sulfhydryls in aqueous solution: Mercaptoethanol, cysteamine, and *N*-acetyl-L-cysteine. *Journal of Physical Chemistry* 100 (20): 8295-8301.

Mozumder, Asokendu

See under Pimblott, Simon M. 1996. *Journal of Physical Chemistry* 100 (20): 8595-8606.

Pimblott, Simon M.

S. M. Pimblott, J. A. LaVerne and A. Mozumder. 1996. Monte Carlo simulation of range and energy deposition by electrons in gaseous and liquid water. *Journal of Physical Chemistry* 100 (20): 8595-8606.

Ross, Alberta B.

P. Neta, J. Grodkowski and A. B. Ross. 1996. Rate constants for reactions of aliphatic carbon-centered radicals in aqueous solution. *Journal of Physical and Chemistry Reference Data* 25 (3): 709-1050.





Awards Received and Proposals Submitted

In the period May 1, 1996, through May 31, 1996

AWARDS RECEIVED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	18	2,181,991	20	1,153,977	38	3,335,968
Facilities and Equipment	0	0	0	0	0	0
Instructional Programs	0	0	0	0	0	0
Service Programs	0	0	4	8,275	4	8,275
Other Programs	<u>1</u>	<u>47,000</u>	<u>2</u>	40,690	<u>3</u>	87,690
Total	19	2,228,991	26	1,202,942	45	3,431,933

PROPOSALS SUBMITTED

Category		Renewal		New		Total	
	0.7	No.	Amount	No.	Amount	No.	Amount
	Research	12	1,413,758	25	6,981,026	37	8,394,784
	Facilities and Equipment	0	0	0	0	0	0
Ņ	Instructional Programs	0	0	2	496,537	2	496,537
	Service Programs	0	0	0	0	0	0
	Other Programs	<u>0</u>	<u>0</u>	<u>3</u>	<u>52,473</u>	<u>3</u>	<u>52,473</u>
	Total	12	1,413,758	30	7,530,036	42	8,943,794

Awards Received

In the period May 1, 1996, through May 31, 1996

AWARDS FOR RESEARCH

Aerospace and Mechanical Engineering

Szewczyk, A. Vortex Oscillations in Shear Flow Department of the Navy \$35.333 12 months Mueller, T. NASA Space Grant College and Fellowship Program Purdue University \$37.500 12 months Renaud, J. National Science Foundation National Young Investigator National Science Foundation \$62,500 36 months Schmid, S. Fundamental Tribology of Metal Working ALCOA \$10,000 12 months Mason, J. Dynamic Fracture of Composites Department of the Navy \$70,000 36 months **Biological Sciences** Lamberti, G. **Ontonagon River Analysis** Department of Agriculture \$2,400 12 months Mossing, M. Structure and Function of Variant Lambda Cro Proteins National Institutes of Health \$112,643 12 months Bridgham, S.

Climate Change on Boreal Peatlands: A Mesocosm Approach National Science Foundation \$190,023 46 months O'Tousa, J.

Fellowship for Kiran M. Shetty Prevent Blindness \$1,500 3 months Blackmore, M., Grimstad, P.

St. Joseph County, Indiana, Mosquito Abatement Project St. Joseph County Health Department

\$30,000 8 months

Stadtherr, M. Advanced Computing Architecture in Chemical Process Engineering National Science Foundation \$82,000 20 months Brennecke, J. **Energy Transfer Reactions in Supercritical Fluids** American Chemical Society \$50,000 24 months Brennecke, J., Stadtherr, M. **REU Supplement to CTS 95-22835** National Science Foundation \$5,000 30 months Miller, A., Bandyopadhyay, S. Superconducting Quantum Structures Purdue University \$1,520 36 months Chang, H. Nonlinear Dynamics and Control National Science Foundation \$167.256 36 months McGinn, P. Fabrication of Long Length YBCO Wires Purdue University \$10,000 48 months **Chemistry and Biochemistry** Scheidt, W. X-Ray and Chemical Studies of Metalloporphyrins National Institutes of Health \$305,878 12 months Miller, M. Siderophores, Analogs and Bioconjugates National Institutes of Health \$266,839 12 months Lilly Research Laboratories Consulting Program for 1996 Eli Lilly Company \$20,000 12 months

Chemical Engineering

Hammes-Schiffer, S. Quantum Effects in the Simulation of Proton Transfer National Science Foundation \$96,625 12 months

Computer Science and Engineering

Brockman, J. NSF Career: Concurrent Optimization National Science Foundation \$200,000 48 months

Kogge, P.

Scalable Spaceborne Computing Using PIM Technology Jet Propulsion Laboratory \$51,112 6 months

Center for the Study of Contemporary Society

Hallinan, M.

Track Effects on Mathematics Learning American Educational Research Association \$25,000 24 months

Electrical Engineering

Bernstein, G. Presidential Faculty Fellows Program National Science Foundation \$100,000 66 months Lemmon, M., Antsaklis, P. Algorithm Development for Synthesis of Hybrid Control Department of the Army \$80,000 36 months Porod, W., Lent, C., et al. **Ouantum Cellular Neural Networks** National Science Foundation 36 months \$35,984

Mathematics

Dyer, M. Coxeter Groups and Lie Theory National Science Foundation \$20,000 36 months

Physics

Kolata, J., Aprahamian, A., et al. Nuclear Structure Research National Science Foundation \$855,000 42 months Glazier, J. MRI Study of Three Dimensional Foams ACS Petroleum Research Fund \$50,000 24 months National Young Investigator Award and REU Supplement National Science Foundation \$62,793 66 months NYI Supplement for R.E.U. National Science Foundation \$5,000 66 months Dobrowolska-Furdyna, M. Optical Studies of Semiconductor Heterostructures National Science Foundation \$100,000 65 months

Livingston, A. NATO Travel Grant North Atlantic Treaty Organization \$0 24 months Cason, N., LoSecco, J., et al. Equipment for Brookhaven Experiment E-852 Brookhaven National Laboratory 89 months \$55,140 Wiescher, M. Fourth International Symposium on Nuclei in the Cosmos National Science Foundation \$4,000 6 months Garcia, A. Weak Interactions in the Nucleus National Science Foundation \$50.000 12 months Kolata, J. Nuclear Physics/Astrophysics National Science Foundation 30 months \$11,178

Psychology

Cole, D. Competency-Based Model of Child Depression National Institutes of Health \$73,744 12 months

AWARDS FOR SERVICE PROGRAMS

Center for Continuing Formation in Ministry

Lauer, E.

Center for Continuing Formation in Ministry Various Others \$1,137 1 month

1 monu

Center for Pastoral Liturgy

Bernstein, E. Center for Pastoral Liturgy Various Others \$4,314 1 month Center for Pastoral Liturgy Various Others \$2,588 1 month

Institute for Church Life

Cannon, K. Institute for Church Life Various Others \$236

1 month

AWARDS FOR OTHER PROGRAMS

Office of Executive Vice President

Roemer, J. NYSP-ND NCAA

\$47,000

12 months

Graduate School

Diffley, P. Fellowship for Erica Jasper G.E. Foundation \$33,690 Compton Fellowship for Victor J. Hinohosa Jr. Institute for the Study of World Politics \$7,000 12 months

Proposals Submitted

In the period May 1, 1996, through May 31, 1996

PROPOSALS FOR RESEARCH

Biological Sciences

Müller, I. Analysis of T Cells in Secondary Leishmania Infections National Institutes of Health \$95,932 12 months Lamberti, G. Influence of Land Use on Stream Ecosystems National Science Foundation \$242,360 36 months Hvde, D. Vertebrate Homolog of rdgB Gene **Retinitis Pigmentosa Foundation** \$295,949 36 months Molecular Analysis of Phototransduction National Institutes of Health \$232,876 12 months Kulpa, C. Monitoring Bioremediation Systems with Molecular Techniques Department of Energy \$370,756 36 months Blackmore, M., Grimstad, P. St. Joseph County, Indiana, Mosquito Abatement Project St. Joseph County Health Department \$30.00Ō 8 months Carlton, R. Effects of Atrazine on Metabolism of Algae and Bacteria National Science Foundation \$273,774 36 months Carlton, R., Lamberti, G. Effects of Atrazine on Streams Purdue University \$99,285 24 months O'Tousa, J. Genetic Analysis of Retinal Degeneration National Institutes of Health \$192.474 12 months Civil Engineering and Geological Sciences Neal, C.

Nature of the Sub-Continental Lithosphere Beneath N. Venezuela National Science Foundation \$101,728 24 months

Silliman, S., Kulpa, C. Analysis of Subsurface Heterogeneity Department of Energy \$122,728 12 months Irvine, R. Liquefaction of Low Rank Coal National Science Foundation \$218,405 24 months Silliman, S. Chemical Transport in Heterogeneous Porous Media National Science Foundation \$280.601 36 months Three-Point Scheme for Characterizing Aquifer Hydraulics Purdue University \$65,000 24 months Silliman, S., Irvine, R. Study of Remediation Technologies Department of Energy \$597,597 36 months Kareem. A. Numerical Investigation of Wind Effects on Structures National Center for Supercomputing 12 months \$0 Gray, W. Interfaces in Porous Media Flow Department of Energy \$869,702 36 months McGinn, P. Buffer Layers for Superconductors Plastronic, Inc. \$24,000 6 months **Chemical Engineering** Brennecke, J., Stadtherr, M. Metal Chelate Solubility in Supercritical CO2 Department of Energy \$399,611 36 months Miller, A., Bandyopadhyay, S. Superconducting Quantum Structures Purdue University \$87,621 12 months Brennecke, J., Stadtherr, M., et al. Minimizing Environmental Impact of Chemical Processes National Science Foundation \$410.613 36 months Chang, H., Leighton, D. Transient Autothermal Reactor National Science Foundation \$437,257 36 months Brennecke, J. Presidential Young Investigator National Science Foundation \$16,924 12 months

Chemistry and Biochemistry

Pasto, D. Homolytic Fragmentation of 4-Nitrobenzenesulfenic Deratives National Science Foundation \$308,372 36 months Basu, S. Sialoglycolipid Biosynthesis in Colon Cancer Cells National Institutes of Health \$198,448 12 months Castellino, F. Oligosaccharide Assembly on Recombinant Proteins National Institutes of Health \$237,927 12 months Wiest, O. Mechanism and Models of DNA Photolyase National Institutes of Health \$120,460 12 months Thomas, J. Chemistry of Ions and Radicals in Constrained Systems Department of Energy \$366,239 36 months Lappin, A. Cooperative Effects on Chemical Reactivity C. & H. Dreyfus Foundation, Inc. 12 months \$25,000 **Electrical Engineering** Lemmon, M., Antsaklis, P.

Decentralized Supervision of Semi-Autonomous Systems Department of the Army \$391,470 36 months Bauer, P. Block Digital Feedback Controllers National Science Foundation \$236,121 36 months

Mathematics

Shaw, M., Himonas, A. Partial Differential Equations and Several Complex Variables National Science Foundation \$4,617 12 months

Physics

Livingston, A. Highly-Charged Ions in an Electron Beam Ion Trap National Institutes of Standards and Technology \$19,710 5 months

Wayne, M., Ruchti, R. DO Detector Project Fermi National Laboratory \$77,000 4 months Glazier, J. Complex Pattern Formation National Science Foundation \$57,461 36 months

Radiation Laboratory

La Verne, J. Chemical Effects of Heavy Particles on Transuranic Waste Department of Energy \$476,555 36 months Kamat, P., Hartland, G. Charge Transfer Events in Semiconductor Nanoclusters Department of Energy \$410,211 36 months

PROPOSALS FOR INSTRUCTIONAL PROGRAMS

Aerospace and Mechanical Engineering

Stanisic, M., Skaar, S. Vision-Based Control in High Precision Tasks National Science Foundation \$202,108 36 months Yang, K., Sen, M. CRCD in Intelligent Climate Control Systems National Science Foundation \$294,429 36 months

PROPOSALS FOR OTHER PROGRAMS

Electrical Engineering

Porod, W.

International Workshop on Computational Electronics National Science Foundation \$12,473 12 months

Institute for International Peace Studies

Hayner, A.

NAFSA Grant for Bakhtiyor Kadirov NAFSA/Association of International Educators \$20,000 24 months NAFSA Grant for Vahan Kotanjyan

NAFSA/Association of International Educators \$20,000 24 months



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- 535 Awards Received and Proposals Submitted
- 536 Awards Received
- 538 Proposals Submitted





CASE Awards Announced

Notre Dame has captured nine 1996 Circle of Excellence Awards from the Council for Advancement and Support of Education.

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Notre Dame Magazine earned two gold medals — one for overall quality and one for the spring 1995 issue on play in the American culture. In the periodicals writing category, Thomas Moe, a 1975 graduate, earned a silver medal for "Pure Torture," an account of his five years as a prisoner of war, and Kerry Temple, editor of *Notre Dame* Magazine, won a bronze medal for "The Time of My Life," an article about the concept of time. Temple, former editor Walt Collins, managing editor Carol Schaal and associate editor John Monczunski received a bronze medal for overall staff writing.

The Office of Public Relations and Information received a silver medal for a 30-second television spot titled "Larger Lessons." Broadcast at halftime of football and basketball games, the spot was written and produced by Kevin Burke, director of photography and television production.

The Office of Publications and Graphic Services earned bronze medals for three publications — a scholarship/fellowship brochure, designed by E. Marten Schalm Jr., graphic designer, edited by Marilyn Bellis, editor, and written by Patricia Brach, director of stewardship programs; an individual fund-raising publication, designed by Paul Wieber, associate director and graphic designer, edited by Bellis and written by Jerald Janicki, director of development communications; and a brochure for the dedication of the new College of Business Administration Complex, designed by Schalm, edited by Linda M. Diltz, editor, and written by Dennis Brown, associate director of public relations and information.

Campus Roads Renamed

The University has a new main entrance and several campus roads have new names. With the reopening of Notre Dame Avenue access to campus no longer will be through the gate between Alumni Hall and the Morris Inn. In its place, a new road immediately north of Cedar Grove Cemetery will carry traffic on a loop around the four new residence halls to a linkup with the existing campus road behind Pangborn Hall and the Rockne Memorial. This road, from the new main gate off Notre Dame Avenue and around campus to the East Gate at Juniper Road, will be known as Holy Cross Drive.

The portion of Dorr Road which formerly ran west from the circle behind Alumni and Dillon Halls, South Dining Hall and Fisher Hall will become a pedestrian mall linking the new residence halls to the central campus.

Other campus roads being named or renamed include the following: The road from Holy Cross Drive past Corby Hall to the Hammes Notre Dame Bookstore will be called Corby Drive; the drive behind the Main Building will be known as Sorin Court; Old Juniper Road, which traverses campus between the Snite Museum and Douglas Road, now will be called St. Joseph Drive; the road connecting St. Joseph's Drive with the area adjacent to Cavanaugh and Washington Halls and LaFortune Student Center will be called Cavanaugh Drive; and the semicircular road around Notre Dame Stadium will be known as Moose Krause Circle.

Saint Mary's Road, beginning opposite the Grotto and running around Saint Mary's Lake to U.S. 31 and the Saint Mary's College gate, will retain its name, as will Dorr Road between U.S. 31 and the Notre Dame Security/ Police building on campus.

Appointments

Rev. Mark L. Poorman, C.S.C., associate professor of theology and director of the Master of Divinity program, has been appointed executive assistant to Rev. E. William Beauchamp, C.S.C., executive vice president. Poorman will be concerned with administrative relationships among the University's academic, athletic and business affairs. He also will participate in the discussions of the policy-making officers' group. He was a Phi Beta Kappa graduate of the University of Illinois in 1976 and received a master of divinity degree from Notre Dame four years later. In 1982 he was ordained a priest in the Congregation of Holy Cross and spent the next three years at Notre Dame serving as rector of Dillon Hall and associate director of Campus Ministry. In 1985 he began studies at the Graduate Theological Union in Berkeley and received a Ph.D. in theology in 1990.

Honors

Denis Goulet, O'Neill professor in education for justice, economics, has been named to the honorary editorial advisory board of the Encyclopedia of Life Support Systems.

John Halloran, associate professor of finance and business economics, has been appointed an Andersen Consulting Fellow for the 1996–97 academic year. Funded by Andersen Consulting, the fellowship is designed to support production of multimedia teaching materials for undergraduate students. His project involves the development of an interactive, multimedia decision guide for the Stanford Bank Game, a computer simulation used in the commercial bank management course.

Nazareno Laurence Rapagnani, assistant provost for information technologies, was elected a member of the Board of Trustees for the Corporation for Research and Educational Networking. The mission of this organization is directed toward defining and implementing a set of network servers and services supporting the realization of a virtual university. Their long-term goal is to help build a global networking and computing infrastructure which supports educational outreach, broad cooperation and collaboration among higher education, and faculty and student access to information resources.

Arvind Varma, Schmitt professor of chemical engineering, has been appointed a member of the advisory committee for the international symposium on Self-Propagating High-Temperature Synthesis to be held in Toledo, Spain, October 1997. He has been appointed a member of the scientific committee for the international symposium on Chemical Reaction Engineering to be held in Newport Beach, Calif., September 1998.

Activities

John H. Adams, assistant professor of biological sciences, presented "Vivax Malaria and the Duffy Factor" at the Malaria and Arbovirus Unit Seminar at the Papua, New Guinea, Institute for Medical Research, Madang, May 9.

Mark S. Alber, associate professor of mathematics, presented a talk titled "Billiards on Riemann Surfaces and Nonlinear Partial Differential Equations" at the workshop on Dynamical Systems Methods at Mathematics at the Institute in Oberwolfach, Germany, July 1.

Panos J. Antsaklis, professor of electrical engineering, gave a plenary talk titled "Intelligent Discrete Control Issues" at the Advanced Summer Institute ASI '96, the annual conference of the European Network of Excellence in Intelligent Control and Integrated Manufacturing Systems in Toulouse, France, June 2-6 He presented the papers titled "An Eigenstructure Assignment Approach to Control Reconfiguration" and "Matrix Interpolation in Control Design," chaired the session "Control Applications-I" and was an invited panelist on the panel discussion titled "Control, Automation: Friends or Foes?" at the fourth IEEE Mediterranean symposium on Control and Automation in Crete, Greece, June 10-14. He was the honorary chair of that conference. Antsaklis presented a paper titled "An Invariant Based Approach to the Design of Hybrid Control Systems," chaired the session "Predictive Control" and was an invited panelist at two panel discussions "Intelligent Control Systems" and "Intelligent Systems: Beyond Neural Networks and Fuzzy Control" at the 13th triennial world congress of the International Federation of Automatic Control in San Francisco, Calif., July 1–5.

Scott Appleby, associate professor of history and director of the Cushwa Center, delivered "Catholic Stewardship in American History," a response to a paper by Robert Lynn, at the Lilly Endowment Symposium on Catholic Stewardship in Chicago, Ill., March 15. He delivered the Hesburgh lecture "Lapsed Catholics: Causes and Cures" at Marist College in Poughkeepsie, N.Y., March 29. He gave the keynote lecture "In the Eye of the Beholder: The State of Research on Religious Fundamentalisms" at the international conference on Fundamentalisms at the Dawn of the Twenty-First Century sponsored by the Foundation Jean Jaures and the Friedrich Ebert Stiftung in Paris, France, April 20. He gave a presentation on "The Cultural Context of American Catholic Social Action" at a meeting of diocesan social action directors sponsored by the U.S. Catholic Conference in Detroit, Mich., May 1. Appleby delivered the Hesburgh lecture "Mapping American Catholicism" in Pittsburgh, Pa., May 14. He responded to Patrick Carey's paper on "The Development of American Catholic Theological Education" at the

FACULTY NOTES

College Theology Society annual meeting in Dayton, Ohio, May 31. He delivered the lecture "Keeping the Faith in an Age of Extremes" at the Pastoral Liturgy Conference sponsored by the Notre Dame Center for Pastoral Liturgy in Notre Dame, Ind., June 18. He gave four presentations on "Religion, Culture, and Globalization" to the Andersen Executive Program at Andersen Worldwide in Montreal, Canada, June 13 and 20.

Hafiz M. Atassi, professor of aerospace and mechanical engineering and director of the Center for Applied Mathematics, presented an invited lecture "Domain Decomposition and Computational Aeroacoustics" at Old Dominion University in Norfolk, Va., May 23. He gave the invited lecture "Aeroacoustics of Nonuniform Swirling Flows" at NASA Langly Research Center in Hampton, Va., May 24. He gave an invited lecture titled "Unsteady Aerodynamics and Aeroacoustics of Nonuniform Flows" at the Russian Academy of Sciences in Moscow, Russian Federation, July 1.

Albert-Laszlo Barabasi, assistant professor of physics, gave the theoretical physics seminar "Scaling Properties of Ion-bombarded Surfaces" at the Department of Theoretical Physics at the Technical University of Budapest in Budapest, Hungary, June 7. He gave the solid state seminar titled "Island Size Distributions in Submonolayer Epitaxy" to the Department of Solid State Physics at Lund University in Lund, Sweden, June 17.

Jeffrey H. Bergstrand, associate professor of finance and business economics and fellow in the Kroc Institute, presented the paper "Government Expenditures and Equilibrium Real Exchange Rates" co-authored with Ronald Balvers, West Virginia University, at the Western Economics Association annual meeting in San Francisco, Calif., July 2. He chaired the session "International Trade and Finance VII" at that meeting.

Howard A. Blackstead, professor of physics, gave a seminar titled "The \$Billion Datum, Charge Transfer and Other Myths of High Temperature Superconductivity" to the Department of Electrical Engineering at the University of Notre Dame, Notre Dame, Ind., June 6.

Jacqueline Vaught Brogan, professor of English, gave "Hemingway's *In Our Time:* A Cubist Novel?" at the American Literature Association Convention in San Diego, Calif., June 1.

Rev. Richard S. Bullene, C.S.C., assistant professor of architecture, moderated a session at the University of Pennsylvania symposium "Body and Building: A Symposium in Honor of Joseph Rykwert" held in Philadelphia, Pa., March 29–30. Alice W. Cheang, assistant professor of classical and Oriental languages and literatures, presented the paper "Poetry and Magic: Su Shih's Mirage" on a major poet of the late pre-modern period at the annual meeting of the Asian Studies on the Pacific Coast Conference held at the University of Alberta in Edmonton, Alberta, Canada, June 20–22.

Leonard F. Chrobot, adjunct professor of sociology, delivered the keynote address "Prejudice: Deny or Examine?" for the study week on cultural diversity in the Catholic Church to the Midwest St. Albert the Great Province of the Dominicans in River Forest, Ill., June 9.

Daniel J. Costello Jr., chairman and professor of electrical engineering, presented a paper titled "A New Look at Bootstrap Hybrid Decoding" at the 1996 IEEE Information Theory Workshop in Haifa, Israel, June 9.

Sr. Elaine DesRosiers, O.P., professional specialist and director of Educational Media, gave a multimedia presentation titled "Dominican Colleges and Technologies for the 21st Century" at the seminar for Dominicans in Higher Education in Fanjeaux, France, May 30.

Alan Dowty, professor of government and international studies, served consecutively as visiting professor at the University of Haifa, Tel Aviv University and the Hebrew University of Jerusalem, Israel, May-June. He presented public lectures on "Consociationalism and Israeli Arabs: A Comparative Perspective" at departmental seminars of the Political Science Departments at the University of Haifa, May 13, and at Tel Aviv University, May 20. He presented a paper on "Changing International Norms: Population Flows and International Interventions" coauthored with Gilburt D. Loescher, professor of government and international studies, at an international conference on Imagined Communities: International Thought Towards the End of the 20th Century sponsored by the Leonard Davis Institute for International Relations at the Hebrew University, May 28. Dowty presented the public lecture "Is There a 'Jewish' Politics?" at an international conference on the Israeli Public and the Peace Process co-sponsored by the Davis Institute and the Konrad Adenauer Foundation held at the Hebrew University, June 13.

Kenneth Featherstone, professor emeritus of architecture, served as the juror of the annual Undergraduate Exhibition of Art and Design for the year 1995–96 at Purdue University in West Lafayette, Ind.

Stephen A. Fredman, professor of English, delivered the paper "Allen Ginsberg and Lionel Trilling: The Hasid and the Mitnaged" at the conference on American Poetry in the 1950s sponsored by the National Poetry Foundation at the University of Maine in Orono, Maine, June 20.



Morton S. Fuchs, professor of biological sciences, presented a Hesburgh lecture titled "Some Ethical and Social Problems Posed by Biomedical Technology" to the Dallas-Fort Worth Alumni Club in Dallas-Fort Worth, Tex., April 24–26.

James A. Glazier, assistant professor of physics, gave the invited seminar "How Cells Know Where to Go" at the Laboratory of Experimental Hydrodynamics at Ecole Polytechnique in Paris, France, May 24, at the Institute for Nonlinear Studies, CNRS, in Nice, France, May 28, and at the Laboratoire Neel, CNRS, in Grenoble, France, June 3. He presented the invited talk "Three Dimensional Liquid Foams" at the second Euroconference on Foams in Arcachon, France, May 29.

Denis Goulet, O'Neill professor in education for justice, economics, delivered a lecture on "U.S. Capitalism: Trends and Evolution" to the Cercle d'Etudes Jean LaBasse at the Université Catholique in Lyon, France, June 17. He conducted a workshop on "State of the Arts in Indicators Research, and Methodology for Alternative Indicators" at Centre Lebret in Paris, France, June 20-21. He delivered the keynote address on "Human Development: Its Full Dimensions to the International Development Ethics Association Conference on Ethics, Development, and Global Values at the University of Aberdeen in Aberdeen, Scotland, June 25. He delivered a paper on "Defining Wealth, Rethinking Development, Achieving Sustainability" at the conference on the Role of Micro-Enterprise in Community Economics Development: A Global Perspective" sponsored by the Centre for International Studies, the University of Cape Breton and the University Kebangsaan Malaysia held at Cape Breton, Nova Scotia, Canada, July 5.

Alexander J. Hahn, professor of mathematics, was an invited participant in the special session "Number Theory and Quadratic Forms" at the meeting of the American Mathematical Society at Louisiana State University in Baton Rouge, La., April 17–21. He lectured for the session on "Commutators of Hyperplane Reflections in Orthogonal Groups" at that meeting, April 20.

Sr. Mary Catherine Hilkert, O.P., associate professor of theology, presented "Contemporary Trends in Theological Anthropology" at a conference of Dominican Nuns in Dover, Mass., May 21. She was an invited preacher for the opening session of the Cardinal Suenens Symposium at John Carroll University in Cleveland, Ohio, May 31. She presented "Anointed and Sent: The Charism of Preaching" at that symposium, June 1. She was a panel respondent to John R. Sachs, S.J., on "'Do Not Stifle the Spirit': Karl Rahner, The Legacy of Vatican II, and Its Urgency for Theology Today" at the CTSA Convention in San Diego, Calif., June 9.

A. Eugene Livingston, professor of physics, presented a paper titled "New Classifications in the Extreme UV Spectrum of Ne III" at the annual meeting of the Division of Atomic, Molecular and Optical Physics of the American Physical Society in Ann Arbor, Mich., May 15–18. He co-authored three other papers at that meeting: "Hyperfine Quenching and Fine Structure Transition Rates in Highly-Charged Phosphorus Ions," "Laser-Stimulated Recombination Spectroscopy in Highly-Charged Rydberg Ions" and "Precision Lifetime Measurement by Laser Excitation of Fast Ion Beams."

Lawrence C. Marsh, associate professor of economics, presented a paper concerning Economic Random Utility Models (ERUMs), Discrete Product Demand, and Industry Equilibrium to the Econometric Society summer meetings at the Department of Economics at the University of Iowa in Iowa City, Iowa, June 22.

Ingrid Müller, assistant professor of biological sciences, gave the invited seminar "Aspects of T Cell Responses in Primary and Secondary Infections with Leishmania Major" to the Department of Microbiology and Immunology at Finch University of Health Sciences/The Chicago Medical School, North Chicago, Ill., Jan. 30. She gave the seminar "Aspects of T Cell Responses in Experimental Infections with Leishmania Major" at the Department of Microbiology, School of Medicine and Biomedical Sciences at the State University of New York in Buffalo, N.Y., April 4. She gave the talk "Untersuchungen zur Suszeptibilitaet und Resistenz im Experimentalmodell der kutanen Leishmaniose" at the symposium Zell- und Immunbiologie der Technische Universität Braunschweig Carolo Wilhelmina und Gesellschaft für Biotechnologie in Braunschweig, Germany, May 8. She presented the poster presentation "Interleukin-4 Deficient BALB/c Mice Remain Susceptible to Leishmania Major Infection" coauthored with P. Kropf and N. Noben-Trauth at the joint meeting of the American Society for Biochemistry and Molecular Biology, the American Society for Investigative Pathology and the American Association of Immunologists in New Orleans, La., June 2-6. Müller gave the invited seminar "Interleukin-4 Deficient BALB/c Mice Remain Susceptible to Leishmania Major Infection" at the Genetics Institute in Andover, Mass., June 27.

Walter Nugent, Tackes professor of history, received an Academic Specialist grant from the United States Information Agency for lectures and consultations in Brazil. He gave the following lectures: "Americans Find their West, 1890–1940 at the Universidade Estadual de Tocantins, Porto Nacional, June 3, and at the Universidade de Brasilia, June 12; "U.S. and Canadian Land Policy: Historical Comparisons" at the Universidade de Brasilia, June 13; "Four Frontier Dreams in North America" at the Universidade Federal de Rio Grande do Sul, Porto Alegre, in conjunction with the ninth biennial meeting of the Associaçao Brasileiro de Estudos Americanos, June 20.

Rev. Robert S. Pelton, C.S.C., fellow in the Kellogg Institute, gave a presentation on "Small Christian communities in the United States" at the sixth Latin American Conference on Religion in Bogota, Colombia, June 13. He gave an updated report on the project he has coordinated for the U.S. bishops on "The Influence of the Latin American Church on the United States Church" at the headquarters of the Conference of Latin American Bishops (CELAM) in Bogota, Colombia, June 14. This U.S. project will assist the bishops to prepare for the Pan American Synod. He gave a lecture on "Vatican II and Latin America: An Example of Inter-Regional Church Cooperation" at the Pastoral Institute of Latin America (ITEPAL) in Bogota, Colombia, June 18.

Alvin Plantinga, O'Brien professor of philosophy, presented the lectures "On Christian Scholarship, "Pluralism: A Defense of Religious Exclusivism" and "An Evolutionary Argument Against Naturalism" at Oregon State University in Corvallis, Oreg., Jan. 17-18. He gave the lectures "On Christian Scholarship" and "Pluralism: A Defense of Religious Exclusivism" at Seattle Pacific University in Seattle, Wash., Feb. 15. He presented "An Evolutionary Argument Against Naturalism" and "Naturalism Defeated" at the University of Washington in Seattle, Wash., Feb. 16. Plantinga gave "Pluralism: A Defense of Religious Exclusivism" and "An Evolutionary Argument Against Naturalism" at Whittier College in Whittier, Calif., March 13-14. He presented "Naturalism Defeated at Brown University in Providence, R.I., April 17, and at Rutgers University in New Brunswick, N.J., April 18.

Morris Pollard, Coleman director of the Lobund Laboratory and professor emeritus of biological sciences, presented the keynote address on "Model Systems for Experimental Oncology" and chaired the panel on future projects at the 12th international symposium on Gnotobiology in Honolulu, Hawaii, June 23–26.

Wolfgang Porod, professor of electrical engineering presented a plenary lecture titled "Quantum-Dot Devices and Quantum Cellular Automata" at the symposium on Visions of Nonlinear Science in the 21st Century held in Sevilla, Spain, June 26.

Jean Porter, associate professor of theology, presented the talk "Women in the Traditions" Looking at Christian Texts" at the 11th annual spring workshop on Jewish-Christian Dialogue at the Valparaiso University Department of Theology in Valparaiso, Ind., May 8. She served on a panel discussion of the *Responsum ad Dubium* regarding women and priestly ordination during the annual meeting of the Catholic Theological Society of America in San Diego, Calif., June 7. She presented the paper "Moral Language and the Language of Grace: The Fundamental Option and the Virtue of Charity" discussed in a meeting of the Karl Rahner Society during the annual meeting of the Catholic Theological Society of America, June 8.

Peter Schiffer, assistant professor of physics, gave a talk titled "Spin Freezing and Metamagnetism Induced by Geometrical Frustration in Gadolinium Gallium Garnet (GGG)" at the Department of Physics at the University of Tsukuba in Tsukuba, Japan, May 27. He gave the invited talk "Thermodynamic, Transport, and Structural Characterizations of the Compositional Phase Diagram of La_{1-x}Ca_xMnO₃" at the 1996 Joint Research Council for Atomic Technology workshop on Spin-Charge-Lattice Coupled Phenomena in Perovskites, Tsukuba, Japan, May 29. Schiffer gave the seminar titled "Spin Freezing and Metamagnetism Induced by Geometrical Magnetic Frustration in Gadolinium Gallium Garnet (GGG)" at the Department of Physics in Brookhaven at the Brookhaven National Laboratory, June 26.

Thomas G. Smith, professor of architecture, gave the lecture "The Failure of Modern Architecture?" at the Madeleine Festival of the Arts and Humanities in Salt Lake City, Utah, April 28. He received an American Cultural Specialist Grant sponsored by the United States Information Agency at the Academy of Architecture, Repin Institute, in St. Petersburg, Fla., May 27–June 7.

Andrew J. Sommese, Duncan professor of mathematics, gave the invited lecture "Numerical Algebraic Geometry" in the Complex Geometry Seminar of the Mathematics Institute at the University of Bayreuth, Germany, May 29. He presented the invited lecture "Constructing Good Homotopies to Solve Polynomial Systems" at that seminar, June 5. He was a fellow in the "Research in Pairs" (RiP) program at the Mathematische Forschungsinstitut Oberwolfach, Germany, June 9–22.

Laurence R. Taylor, chairperson and professor of mathematics, presented "Orientable Four Manifolds Support Spin_c Structures" at the Topology Seminar at the University of California in Berkeley, Calif., June 27.

Henry M. Weinfield, associate professor in the Program of Liberal Studies, gave the paper "Projective Verse Revisited" as part of the panel "The New American Poetry' Revisited" which he chaired at the Poetry of the 1950s conference at the University of Maine in Orno, Maine, June 20. He read from his poetry, was the respondent to a panel of papers on the poetry of William Bronk and together with **Stephen Fredman**, professor of English, organized a videotaped presentation of William Bronk reading his poetry at that conference, June 21–22.

FACULTY NOTES
Appointments

Dennis Brown, assistant director of public relations and information, has been promoted to associate director of that department. A member of the public relations staff since 1991 he reports on academic achievements and activities in law, business, and arts and letters, as well as off-the-field developments in athletics. He also coordinates coverage of commencement and other campus events and writes and edits for a wide variety of University publications.

Activities

Iris L. Outlaw, director of Multicultural Student Affairs, co-presented "Effective Methods for Getting Students to See Themselves in a Multicultural Context: An Introspective View" with Danny Robledo, Notre Dame sophomore, at the ninth annual national conference on Race and Ethnicity in American Higher Education held in San Antonio, Tex., June 1.

Publications

Alan S. Bigger, director of building services, wrote "I Hate My Boss, Part II" published in the July 1996 issue of *Executive Housekeeping Today*. He wrote "Making Waste Management Work" in the June 1996 issue of *Maintenance Solutions*.

Mary Ellen Koepfle, director of restricted funds, wrote the article "OMB Revises A-21" which was published in the June 1996 *ACUA Ledger*.



Addendum to the Faculty Roster

The following faculty members came to the University during the 1995 fall and the 1996 spring semesters and were not included in *Notre Dame Report* #4.

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Fall 1995 Faculty

JONATHAN P. LEE, Visiting Assistant Professor in the Rome Architecture Program. B.S., Univ. of Michigan, 1988; M.Arch., ibid., 1990. (1995)

PETER E. SLINN, *Adjunct Professor in the London Law Program.* B.A., Univ. of Oxford, 1963; M.A., ibid., 1969; Ph.D., Univ. of London, 1974. (1995)

JAMES A. STIVER, *Visiting Assistant Professor of Electrical Engineering*. B.S., Univ. of Notre Dame, 1989; M.S., ibid., 1991; Ph.D., ibid., 1995. (1995)

LONGHUA SUN, Visiting Associate Professor of Biological Sciences. B.S., Lanzhou Univ., 1977. (1995)

Spring 1996 Faculty

JOHN APEITOS, *Visiting Associate Professor of Music*. B.M.Ed., Univ. of Melbourne, 1978. (1996)

ANTHONY L. BERARDI, *Adjunct Assistant Professor of Psychology*. B.A., Univ. of Notre Dame, 1968; M.S., Ohio Univ., 1974; Ph.D., ibid., 1976. (1996)

BRIAN F. CRISP, Fellow in the Helen Kellogg Institute for International Studies. B.A., Hope College, 1985; Ph.D., Univ. of Michigan, 1992. (1996)

JOYCE DUNFEE, *Adjunct Assistant Professor of Psychology*. B.A., Indiana Univ., 1973; M.S., ibid., 1980; M.A., Univ. of Notre Dame, 1985; Ph.D., ibid., 1987. (1996)

RICHARD M. ECONOMAKIS, Assistant Professor of Architecture. B.Arch., Cornell Univ., 1983; M.Arch., ibid., 1985. (1996)

GARY W. ELLIOTT, *Adjunct Assistant Professor of Psychology*. B.S., Grand Valley State, 1973; M.A., Univ. of Notre Dame, 1977; Ph.D., Univ. of Health/Sciences/The Chicago Medical School, 1983. (1996)

MICHAEL FAVORITE, *Concurrent Instructor in Accountancy*. B.B.A., Univ. of Notre Dame, 1984; M.B.A., Univ. of Texas, Austin, 1989. (1996) VOLKER K. FRANK, *Visiting Assistant Professor of Sociology*. B.A., Univ. of Tübingen, 1983; M.A., Univ. of Florida, 1987; Ph.D., Univ. of Notre Dame, 1995. (1996)

REV. CHARLES B. GORDON, C.S.C., *Instructor in Theology*. B.A., Univ. of Notre Dame, 1978; M.Div., ibid., 1986. (1996)

AMY C. LIND, Fellow in the Helen Kellogg Institute for International Studies. B.A., Univ. of California, Santa Cruz, 1988; M.R.P., Cornell Univ., 1990. (1996)

DOUGLAS K. MARSH, Adjunct Assistant Professor of Architecture. B.Arch., Univ. of Notre Dame, 1982. (1996)

JUAN E. MENDEZ, Fellow in the Helen Kellogg Institute for International Studies. J.D., Stella Maris Catholic Univ., 1970. (1996)

JOSEPH T. ROSS, *Staff Librarian in the University Libraries*. B.A., Lycoming College, 1973; M.T.S., Harvard Univ., 1977; M.A., Univ. of Notre Dame, 1991; M.L.S., Indiana Univ., 1993. (1996)

ELIZABETH R. SCHILTZ, Associate Professor of Law. B.A., Yale Univ., 1982; J.D., Columbia Univ., 1985. (1996)

DINAH L. SHELTON, *Visiting Professor of Law*. B.A., Univ. of California, Berkeley, 1967; J.D., ibid., 1970. (1996)

MARK A. STADTHERR, *Professor of Chemical Engineering*. B.Ch.E., Univ. of Minnesota, 1972; Ph.D., Univ. of Wisconsin, 1976. (1996)

LT. MATTHEW P. STEVENSON, *Instructor in Naval Science*. B.S., Univ. of Notre Dame, 1991. (1996)

PETER T. SZYMANSKI, *Visiting Assistant Professor of Electrical Engineering*. B.S., Univ. of Toledo, 1988; M.S., Univ. of Notre Dame, 1992; Ph.D., ibid., 1995. (1996)

KYMBERLY B. TAYLOR, *Adjunct Assistant Professor in the Freshman Writing Program.* B.S., Boston Univ., 1984; M.F.A., Columbia Univ., 1995. (1996)

EDMUND WNUK-LIPINSKI, Fellow in the Helen Kellogg Institute for International Studies. M.A., Warsaw Univ., 1966; Ph.D., ibid., 1972. (1996)

DEBORAH J. YASHAR, *Fellow in the Helen Kellogg Institute for International Studies*. A.B., Brown Univ., 1985; M.A., Univ. of California, 1986; Ph.D., ibid., 1992. (1996)

REV. THOMAS K. ZURCHER, C.S.C., *Adjunct Instructor in Theology*. B.A., Univ. of Notre Dame, 1968; M.Div., ibid., 1971. (1996)



Board of Trustees Executive Summary May 3, 1996

The Board of Trustees nominated and the Fellows elected the following as trustees: Michael Geddes '61, chair and president of Geddes and Company, Phoenix; William Goodyear '70, Chicago, chair and chief executive officer of Bank of America Illinois; Stephanie Gallo '94, account manager for the Gallo Division of Romano Brothers, a Chicago beverage distributor; and Robert Pasin '91, executive vice president of Radio Flyer, Inc., Chicago. Gallo and Pasin will occupy three-year positions on the board set aside for graduates of the last 10 years. Messrs. Hawley and Minow and Prof. O'Meara were elected to life trusteeship. It was reported to the board that the fellows had elected Trustee Kathleen Andrews to their number. The trustees, upon the recommendation of provost-elect Nathan Hatch, elected James L. Merz, Freimann professor of electrical engineering, to be vice president for graduate studies and research and Carol Mooney, professor of law, to be vice president and associate provost.

Father Malloy gave his President's Report, which included reflections on his election as chair of Campus Compact; a report on the "fly-in" component of the development campaign; an update on the University's preparation for an NCAA accreditation audit and the newly adopted (by the Academic Council) statement on intercollegiate athletics; a briefing on an internal review of the international dimension of the University, and a progress report on campus construction and renovation.

Provost O'Meara presented a report on faculty hiring, undergraduate admissions, the future plans of baccalaureate graduates, and honors and placements of advanced students.

Vice President for Student Affairs Patricia O'Hara introduced a panel of undergraduates who, at the invitation of the trustees' Student Affairs Committee, addressed how their involvments outside the classroom had enriched their educational experience at the University.

Executive Vice President Father William Beauchamp reviewed facilities and site planning issues.

Vice President for University Relations William Sexton reported on the pre-announcement, leadership gift phase of the upcoming development campaign.

The board went into executive session to review the officers of the University.

Prof. Sexton introduced a student panel, the members of which discussed the role of financial aid in their educational career at the University.

Prof. O'Hara reviewed the history of the administration's discussions concerning how best it might meet the needs of the University's homosexual students.

Prof. O'Meara reviewed academic affairs during his watch as provost.

As retiring chair of the Investment and Finance Committee, Mr. Wilmouth reported that the University endowment as of March 31 stood at \$1.187 billion in market value.

Mr. Mason reviewed his tenure as vice president for business affairs.

Mr. Soletti reported on activities of the Notre Dame Alumni Association.

Documentation

264th Graduate Council Minutes April 10, 1996

Members present: Anthony K. Hyder, chair; Terrence J. Akai; Joan Aldous; Panos J. Antsaklis; Harold W. Attridge; Francis J. Castellino; Robert de Haan; Malgorzata Dobrowolska-Furdyna; Gregory E. Dowd; Morton S. Fuchs; Christopher S. Hamlin; John G. Keane; Joseph Manak; Anthony N. Michel; Robert C. Miller; Thomas L. Nowak; Sharon L. O'Brien; James H. Powell; Barbara M. Turpin; James H. Walton

Members absent and excused: John C. Cavadini; Peter Diffley; Michael Detlefsen; Nathan O. Hatch; Scott E. Maxwell; Thomas J. Mueller; Arvind Varma

Guests: Thomas F. Cosimano (finance and business economics); Thomas J. Frecka (accountancy); Christopher B. Fox (English); Valerie L. Sayers (English); William L Wilkie (marketing); Ewa Ziarek (English)

Observer: Edward J. Conlon

Dr. Anthony K. Hyder, associate vice president for graduate studies and research, opened the meeting at 3:35 p.m.

I. Minutes of the 263rd Graduate Council Meeting

The minutes of the 263rd meeting were approved without change.

II. Spring 1996 Graduate Degree Candidacy Applicants

The list of spring 1996 graduate degree candidacy applicants was approved without objection.

III. Change of Degree Designation for Creative Writing Master Degree

Dr. Hyder called on Dr. Valerie L. Sayers of the Department of English to present the proposal to change the degree designation for the creative writing program from M.A. to M.F.A. Dr. Sayers offered the following reasons for requesting the change:

1. The creative writing program is equivalent in length to M.F.A. programs elsewhere, which are at least two years.

2. More often than not, the degree designation for programs like Notre Dame's is M.F.A. 3. The master degree in creative writing is a terminal degree.

4. Changing the degree designation would help in the placement of current students and the recruitment of new ones.

5. Offering an M.F.A. in creative writing would distinguish the program from the M.A. program in literature.

A motion to change the degree designation of the creative writing program from M.A. to M.F.A., and to place a notation to that effect on the transcripts of previous graduates, passed unanimously.

IV. Proposal for a Ph.D. Program in the College of Business

Dr. Hyder called on Dr. John G. Keane, dean of the College of Business, to comment on the proposal for a business Ph.D. program. Council members had received copies of the proposal in the mail. Dr. Keane offered the following remarks:

1. Establishing a Ph.D. program has been a serious agenda item in the College of Business for the last seven years.

2. The Colloquy for the Year 2000 endorsed a business Ph.D. at an endowment level of \$40 million.

3. The president and the provost have been favorable to a business Ph.D., contingent on approval by appropriate deliberative bodies.

4. The proposal, as it now appears, has received careful scrutiny by the college faculty, and has been approved by the college council.

5. A business Ph.D. program would enhance teaching and research in the college and possibly elsewhere in the University. It would also add to Notre Dame's reputation in the larger scholarly and business communities.

Dr. Hyder called next on Dr. Edward J. Conlon, chair of the Department of Management and chair of the Ph.D. Program Steering Committee. Dr. Conlon offered the following comments:

1. All four members of the steering committee have done extensive work on the proposal. Each has had experience in business Ph.D. programs at other universities.

2. The college now seeks the Graduate Council's approval of the proposal as a necessary step in moving toward a Ph.D. program in business.



3. The proposal reflects changes in the college since the Colloquy endorsed the concept of a business Ph.D.

4. One rationale for a business Ph.D. at Notre Dame is that there is a shortage of graduates sufficiently qualified for hire at the best universities. Because it has raised its standards for hiring and promotion over the years, the college's own experience confirms this.

5. With the completion of the new College of Business Administration building, the college, as planned, has the facilities for a business Ph.D. program.

6. The college recognizes that implementation of a business Ph.D. would depend on securing sufficient new funding.

7. Establishing a business Ph.D. program is important to the college faculty, and would do much to support its scholarly aspirations.

In the questions and discussion following the comments by Drs. Keane and Conlon, the following major points emerged:

1. The level of funding deemed sufficient to establish a business Ph.D. program is not a concern of the Graduate Council.

2. The cognitive and social psychology courses required from the Department of Psychology are already in place. The statistics courses required from the Department of Mathematics are not. The college recognizes that it might have to hire a faculty member of its own in statistics.

3. A business Ph.D. would be largely independent of the Department of Economics.

4. Establishing a business Ph.D. might contribute to the development of applied mathematics across the University.

5. The examinations structure for the degree would be similar to other Ph.D. programs. There would be one or two examinations prior to the dissertation, varying among the several Ph.D. tracks.

6. An M.S. in business is not a program objective. Such a degree might be awarded en route to, or when a student does not complete, the Ph.D.

7. Some applicants for a business Ph.D. would be undergraduate business majors or M.B.A.s; the majority would come from non-business backgrounds. Applicants without a background in business would have to spend a semester or a year at the M.B.A. level. 8. Establishing the program would be a five-year process. Ideally, all five Ph.D. tracks would begin at the same time, but some might come before others.

9. Downsizing has occurred in some large business Ph.D. programs because there was not sufficient control of the program, and because adequate placement could not be found for all students. In the current job market, only highly qualified candidates are assured positions.

10. Even in a tight market, quality candidates from excellent programs get one or more job offers. Everyone is competing for the same people.

11. There are reasons for not "starting small," that is, beginning a business Ph.D. with only one track: 1) Recent hires were not to increase the size of the faculty for a Ph.D. program, but to enhance its quality. New positions, as outlined in the proposal, are necessary. 2) Piecemeal starts would create quality differences among departments. This would not be good for morale or for the quality and reputation of the B.S. and M.B.A. programs. 3) There is a difference between Ph.D. tracks in business and departmental Ph.D. programs in other colleges. The functional areas of business are more closely related than the disciplines embodied in many non-business departments.

12. Recruitment and admission of students would be done by the college faculty, but the Graduate School would have final control, as it does with other Ph.D. programs.

13. Simply put, a business Ph.D. program's market niche would be high quality. There are relatively few programs in this category, and their graduates are in demand. Given the right organization and resources, Notre Dame has an opportunity to join an elite group.

14. In addition to high quality, each of the program's five tracks would have its own niche.

15. Notre Dame's business Ph.D. would be different in other ways: 1) It would be smaller than other programs. 2) More use would be made of fellowships, allowing students to do less teaching than at other schools. 3) A relatively small number of students, many with the freedom of fellowships, would facilitate closer mentoring by faculty members. Students would have the opportunity to become involved in research and publication early in their studies.

16. Notre Dame's lack of a track record in business Ph.D. education would initially hinder recruiting top flight students. However, some of the college's best undergraduates might be persuaded to stay. The program's first





graduates must be excellent and well trained to help build a reputation for quality.

17. The program's relatively small number of students could create a critical mass problem for courses. However, many courses would be seminars, and many would be offered in alternate years.

18. Ph.D. programs in business are not professional programs. Research in business is not necessarily driven by management problems, even though Ph.D. students must understand these issues and concerns.

19. If there is only partial, but still substantial funding for a business Ph.D., the college would develop a plan to decide what to do with less money. It is hard at this point to calculate what each Ph.D. track would cost. Limited funding would not lead to establishing a mediocre program.

As the discussion drew to a close, Dr, Keane offered some additional remarks:

1. There are currently some prospects for large donors to help fund a business Ph.D. program.

2. The college has attracted many faculty members of high quality, and will be able to attract more in the future.

3. Another distinguishing feature of a Notre Dame business Ph.D. could be an ethical component.

Following Dr. Keane, Dr. Francis J. Castellino, dean of the College of Science, expressed his strong support for the proposal. A Ph.D. program in business could have a positive impact on scholarship across the University. Downsizing in other Ph.D. programs might present opportunities for great faculty hires. Funding standards should not be different and higher for a business Ph.D. than for other Ph.D. programs. If the program is of high quality, the University should support it, even if that were to mean diverting resources from other areas.

Following Dr. Castellino, Dr. Harold W. Attridge, dean of the College of Arts and Letters, stated his support for the proposal, but added that some additional steps need to be taken. The costs and benefits of a business Ph.D. for the rest of the University should be developed further, including the exploration of possible synergies. Greater consideration should be given to phasing in the program rather than beginning with all five tracks. The Graduate Council should review the development of all the University's graduate programs, as the Colloquy suggested. Dr. Hyder then called for a motion on the proposal.

It was moved, seconded and passed, with Dr. Aldous dissenting and Dr. O'Brien abstaining, that the proposal to establish a Ph.D. program in the College of Business Administration is approved in regard to its academic components, without reference to its budget and funding provisions, and subject to the usual controls of the Graduate School and the Graduate Council. It was understood by those voting that the proposal is subject to the further scrutiny of the Academic Council and appropriate University officers.



Current Publications and Other Scholarly Works

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

COLLEGE OF ARTS AND LETTERS

Economics

Dutt, Amitava K.

A. K. Dutt. 1996. Intersectoral capital mobility in a kaldorian model of growth and development. *The Manchester School of Economic and Social Studies* 64 (2): 153-169.

Government and International Studies

Moody, Peter R., Jr.

P. R. Moody Jr., ed. 1996. *China documents annual,* 1992; *Revival of reform.* Gulf Breeze, Fla.: Academic International Press. xvii + 427 pp.

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Christiano, Kevin J.

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Theology

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M. C. Hilkert, O.P. 1996. Review of *The Language of faith: Essays on Jesus, theology, and the church,* Concilium Series, by E. Schillebeeckx. *Theological Studies* 57 (2): 361-363.

Porter, Jean

- J. Porter. 1996. Christianity, divine law and consequentialism. *Scottish Journal of Theology* 48 (4): 415-442.
- J. Porter. 1996. Review essay on D. Westking, *Right* practical reason, and P. Hull, *Narrative and natural law*. Studies in Christian Ethics 9 (1): 71-79.

Yoder, John H.

J. H. Yoder. 1996. Meaning after babble: with Jeffrey Stout beyond relativism. *Journal of Religious Ethics* 24 (1): 125-139.

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Gabriel, Astrik L.

A. L. Gabriel. 1996. Jászó/Gödöllö. *Communicator* 14 (1): 67-68.

COLLEGE OF SCIENCE

Biological Sciences

Müller, Ingrid M.

N. Noben-Trauth, P. Kropf and I. Müller. 1996. Susceptibility to Leishmania major infection in interleukine-deficient mice. *Science* 271:987-990.

Rai, Karamjit S.

K. S. Rai. 1996. Genetic control of vectors. In *The biology of disease vectors*, eds. B. J. Beaty and W. C. Marquardt, 564-574. University Press of Colorado.

Chemistry and Biochemistry

Castellino, Francis J.

L. R. Jalbert, J. C. Y. Chan, W. T. Christiansen and F. J. Castellino. 1996. The hydrophobic nature of residue-5 of human protein C is a major determinant of its functional interactions with acidic phospholipid vesicles. *Biochemistry* 35 (22): 7093-7099.

Bishop, James M.

G. S. Adams et al., Notre Dame (T. Adams, J. M. Bishop, N. M. Cason, J. M. LoSecco, J. J. Manak, A. H. Sanjari, W. D. Shephard, D. L. Stienike, S. A. Taegar, D. R. Thompson) Brookhaven, I.H.E.P. Protvino, Indiana, Massachusetts-Dartmouth, Moscow State, Northwestern, Rensselaer Collaboration. 1996. Resonance production in the reaction $\pi^-p \rightarrow n\pi^-\pi^+\pi^0\pi^0$. In *Proceedings of the 6th International Conference on*

Hadron Spectroscopy, Manchester, England, eds. M. C. Birse, G. D. Lafferty and J. A. McGovern, World Scientific, Singapore, 491-493.

- D. P. Weygand et al., Notre Dame (T. Adams, J. M. Bishop, N. M. Cason, J. M. LoSecco, J. J. Manak, A. H. Sanjari, W. D. Shephard, D. L. Stienike, S. A. Taegar, D. R. Thompson) Brookhaven, I.H.E.P. Protvino, Indiana, Massachusetts-Dartmouth, Moscow State, Northwestern, Rensselaer Collaboration. 1996. Study of $\pi^+\pi^-\pi^-$ interactions at 18 GeV/c. In *Proceedings of the 6th International Conference on Hadron Spectroscopy*, *Manchester, England*, eds. M. C. Birse, G. D. Lafferty and J. A. McGovern. World Scientific, Singapore, 241-247.
- See under Cason, Neal M. 1996. Proceedings of the 6th International Conference on Hadron Spectroscopy, 55-61.
- B. B. Brabson et al., Notre Dame (T. Adams, J. M. Bishop, N. M. Cason, J. M. LoSecco, J. J. Manak, A. H. Sanjari, W. D. Shephard, D. L. Stienike, S. A. Taegar, D. R. Thompson) Brookhaven, I.H.E.P. Protvino, Indiana, Massachusetts-Dartmouth, Moscow State, Northwestern, Rensselaer Collaboration. 1996. Study of the $\pi^0\pi^0$ system in π ⁻p interactions at 18 GeV/c. In *Proceedings of the 6th International Conference on Hadron Spectroscopy, Manchester, England*, eds. M. C. Birse, G. D. Lafferty and J. A. McGovern, World Scientific, Singapore, 494-496.
- J. P. Dowd et al., Notre Dame (T. Adams, J. M. Bishop, N. M. Cason, J. M. LoSecco, J. J. Manak, A. H. Sanjari, W. D. Shephard, D. L. Stienike, S. A. Taegar, D. R. Thompson), Brookhaven, I.H.E.P. Protvino, Indiana, Massachusetts-Dartmouth, Moscow State, Northwestern, Rensselaer Collaboration. 1996. Observation of f1(1285) π and $\eta'(958)\pi$ in the reaction $\pi^-p \rightarrow p\eta\pi^+\pi^-\pi^$ at 18 GeV/c. In *Proceedings of the 6th International Conference on Hadron Spectroscopy, Manchester, England*, eds. M. C. Birse, G. D. Lafferty and J. A. McGovern, World Scientific, Singapore, 497-499.

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Hu, Bei

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- Garg, Umesh
 - B. F. Davis, H. Akimune, A. Bacher, G. P. A. Berg, C. C. Foster, M. Fujiwara, U. Garg, M. N. Harakeh, J. Jänecke, J. Lissanti, K. Pham, W. Reviol, D. Roberts, E. J. Stephenson and Y. Wang. 1996. The "other" giant dipole resonance: Evidence for the isoscalar giant dipole resonance in ²⁰⁸Pb from inelastic a scattering at 0°. *Nuclear Physics A* 599:277c-282c.

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- See under Cason, Neal M. 1996. Proceedings of the 6th International Conference on Hadron Spectroscopy, 55-61.
- See under Bishop, James M. 1996. Proceedings of the 6th International Conference on Hadron Spectroscopy, 494-496.
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Rettig, Terrence W.

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- T. W. Rettig, M. J. Mumma, G. J. Sobczak, J. M. Hahn and M. DeSanti. 1996. The nature of comet shoemaker-levy 9 sub-nuclei from an analysis of preimpact HST images. *Journal of Geophysics Research* -*Planets* 101:9271-9282.

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- See under Cason, Neal M. 1996. Proceedings of the 6th International Conference on Hadron Spectroscopy, 55-61.
- See under Bishop, James M. 1996. Proceedings of the 6th International Conference on Hadron Spectroscopy, 491-493.
- See under Bishop, James M. 1996. Proceedings of the 6th International Conference on Hadron Spectroscopy, 494-496.
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COLLEGE OF ENGINEERING

Aerospace and Mechanical Engineering

Gad-el-Hak, Mohamed

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Computer Science and Engineering

Chen, Danny Z.

- D. Z. Chen and X. Hu. 1996. Efficient approximation algorithms for floorplan area minimization. In *Proceedings of the 33rd ACM/IEEE Design Automation Conference*, Las Vegas, NV. 483-486. June 3-7.
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COLLEGE OF BUSINESS ADMINISTRATION

Management

Vecchio, Robert P.

R. P. Vecchio. 1996. The influence of employment screening on employee attachment. *Employee Responsibilities and Rights Journal* 9:119-129.

LAW SCHOOL

Schiltz, Patrick J.

P. J. Schiltz. 1996. Keeping the faith: Because religion is ignored in colleges, professionals take an incongruous approach to ethical decisions. *Chicago Tribune* (7 May).

RADIATION LABORATORY

George, M. V.

T. Mathew, S. Ajaya Kumar, S. Das, N. P. Rath and M. V. George. 1996. Phototransformations of 9-ethylsubstituted dibenzobarrelene. *Journal of Photochemistry and Photobiology A: Chemistry* 95 (2): 137-141. Kamat, Prashant V.

U. Stafford, K. A. Gray and P. V. Kamat. 1996. Photocatalytic degradation of organic contaminants: Halophenols and related model compounds. *Heterogeneous Chemistry Reviews* 3:77-104.

LaVerne, Jay A.

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S. P. Mezyk and K. P. Madden. 1996. Arrhenius parameter determination for the reaction of methyl radicals with iodine species in aqueous solution. *Journal of Physical Chemistry* 100 (22): 9360-9364.

S. P. Mezyk. 1996. Rate constant determination for the reaction of hydroxyl and glutathione thiyl radicals with glutathione in aqueous solution. *Journal of Physical Chemistry* 100 (21): 8861-8866.

Mozumder, Asokendu

A. Mozumder. 1996. Free-ion yield and electron-ion recombination rate in liquefied rare gases: the case of liquid krypton. *Chemical Physics Letters* 253:438-442. Pimblott, Simon M.

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CENTER FOR SOCIAL CONCERNS

Brandenberger, Jay W.

J. W. Brandenberger. 1995. Review of *Generation at the crossroads: Apathy and action on the American campus,* by P. Rogat Loeb. *NSEE Quarterly* 21 (2): 10, 18.

Awards Received and Proposals Submitted

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In the period June 1, 1996, through June 30, 1996

COLUMN TWO

AWARDS RECEIVED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	9	323,958	12	718,620	21	1,042,578
Facilities and Equipment	0	0	0	0	, 0	0
Instructional Programs	0	0	1	352,332	1	352,332
Service Programs	0	0	4	16,467	4	16,467
Other Programs	<u>2</u>	286,658	<u>1</u>	8,256	<u>3</u>	<u>294,914</u>
Total	11	610,616	18	1,095,675	29	1,706,291

PROPOSALS SUBMITTED

Category	Renewal		New		Total	
0 /	No.	Amount	No.	Amount	No.	Amount
Research	14	2,292,130	18	2,223,703	32	4,515,833
Facilities and Equipment	0	0	1	225,000	1	225,000
Instructional Programs	0	0	0	0	0	0
Service Programs	1	7,320	0	0	1	7,320
Other Programs	<u>0</u>	<u>0</u>	<u>1</u>	<u>8,256</u>	<u>1</u>	<u>8,256</u>
Total	15	2,299,450	20	2,456,959	35	4,756,409



Awards Received

In the period June 1, 1996, through June 30, 1996

AWARDS FOR RESEARCH

Aerospace and Mechanical Engineering

Schmid. S. Multi-Phased Lubrication Issues in Ironing National Science Foundation \$200,000 48 months Nano-scale Adhesion, Abrasion and Friction Considerations National Science Foundation \$12,833 12 months Dunn, P., Brach, R. Aerosol Transport and Deposition Mechanisms Electric Power Research Institute \$61,130 66 months Huang. N. Analysis of Damage in Fuselage Northrop Corp. \$35,000 15 months Skaar, S. Camera Space Manipulation Using Tripod Operators Department of Navy \$30,000 24 months

Biological Sciences

Rai, K.

Experimental Parasitology and Vector Biology National Institutes of Health \$77,194 12 months

Civil Engineering and Geological Sciences

Spencer, B., Sain, M. Magetorheological Dampers National Science Foundation \$86,963 12 months Spencer, B., Kirkner, D. Aircraft Wheel Life Prediction and Assessment Systems Research Labs, Inc. \$39,994 4 months Neal, C. Origins of Ontong Java Plateau, Part 2 National Science Foundation \$84,400 24 months

Chemical Engineering

Brennecke, J. Presidential Young Investigator Award National Science Foundation \$16,924 78 months

Chemistry and Biochemistry

Castellino, F., Prorok, M. Peptide Analogs of Protein C American Heart Association - Ind. \$22.000 12 months Hartland, G. IR Spectroscopy of Nanometer Sized Semiconductor Clusters ACS Petroleum Research Fund \$20.000 24 months Lappin, A. Wavepacket Studies of Transition State Dynamics National Science Foundation \$68.000 36 months Wavepacket Studies of Transition State Dynamics National Science Foundation \$0 24 months Castellino, F., Warder, S. Structure and Function of Protein C American Heart Association - Ind. \$14.000 12 months

Graduate School

Diffley, P. Graduate Research Fellowship for Margaret J. Roe National Science Foundation \$23,000 12 months

Mathematics

Dwyer, W., Taylor, L., et al. Algebraic and Geometric Topology National Science Foundation \$88,900 25 months

Physics

Livingston, A. Highly-Charged Ions in an Electron Beam Ion Trap National Institute of Standards and Technology \$19,710 29 months Kolata, J. Academic Year Undergraduate Research National Science Foundation \$10,000 42 months

Tanner, C.

Precision Measurements of Transition Amplitudes in Cesium National Science Foundation \$83,530 24 months Ruggiero, S. Single Electron Tunneling Department of Energy \$49,000 12 months

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AWARDS FOR INSTRUCTIONAL PROGRAMS

Urban Institute for Community and **Educational Initiatives**

Blake-Smith. D., Smith. R. Upward Bound Department of Education \$352,332 12 months

AWARDS FOR SERVICE PROGRAMS

Center for Continuing Formation in Ministry

Lauer, E. Center for Continuing Formation in Ministry Various Others 1 month \$11,161

Notre Dame Center for Pastoral Liturgy

Bernstein, E. Center for Pastoral Liturgy Various Others \$2.802 1 month Center for Pastoral Liturgy Various Others 1 month \$2,170

Institute for Church Life

Cannon, K. Institute for Church Life Various Others \$334

AWARDS FOR OTHER PROGRAMS

Office of Executive Vice President

Roemer, J. NYSP-Math/Science Education Program NCAA \$8,256

12 months

1 month

Sociology

Hallinan, M. 1996-97 R.E.A.P. Renewal for Yuri Chumakov NAFSA/Association of International Educators 12 months \$10.000

Urban Institute for Community and **Educational Initiatives**

Outlaw, W., Smith, R., et al. Talent Search Department of Education \$276,658

12 months



Proposals Submitted

In the period June 1, 1996, through June 30, 1996

PROPOSALS FOR RESEARCH

Aerospace and Mechanical Engineering

Gad-el-Hak, M., Sen, M. A Novel Method for Micropumping National Science Foundation \$347,218 36 months Dunn, P., Brach, R. Aerosol Transport and Deposition Mechanisms Electric Power Research Institute \$61,130 66 months Mueller, T. Investigation of Thin Airfoil Encountering Periodic Gust Department of the Navy \$14,998 7 months **Biological Sciences** Fraser. M. Transgenesis of Mosquitoes with PiggyBac National Institutes of Health \$69,683 12 months Mossing, M. Structure and Function of Variant Lambda Cro Proteins National Institutes of Health \$280,678 12 months Adams, J.

Molecular Analysis of P. vivax Erythrocyte Binding Proteins World Health Organization \$49.330 12 months Lodge, D. Degradation and Restoration of Lake Michigan Purdue University \$63,135 24 months Kulpa, C. TNT Biodegradation Argonne National Laboratory \$50,000 12 months Duman, J. Expression of Insect Antifreeze Proteins in Plants Pioneer Hybrid International, Inc. \$184,100 12 months Hellenthal, R. Long Term Habitat Change in the Ottawa National Forest **U.S.** Forest Service \$9,974 13 months

Civil Engineering and Geological Sciences Silliman, S. Development of Third World Source Protection Programs Lindbergh Foundation \$10,000 21 months Ketchum, L., Frost, H. Detoxification of Metal Laden Sludges Lindbergh Foundation \$10,580 12 months **Chemical Engineering** McGinn, P. Fabrication of Single Domain Levitators Superconductor Components, Inc. \$11,500 6 months **Chemistry and Biochemistry** Rosen, E. Generation and Characterization of Factor VII Deficient Mice American Heart Association --- National Center \$260.000 48 months Jacobs, D. Reactive Collisions of State-Sel. Molecular Ions with Surfaces National Science Foundation \$376,910 36 months Nowak, T. NMR Studies of Metals in Kinases and Related Enzymes National Institutes of Health \$274,485 12 months Hartland. G. IR Spectroscopy of Nanometer Sized Semiconductor Clusters ACS Petroleum Research Fund \$20.000 24 months Ultrafast Studies of Ground Electronic State Reactions National Science Foundation \$371,224 36 months Huber. P. Protein Binding Domains on Eukaryotic 5S rRNS and rDNA National Institutes of Health \$258,607 60 months **Electrical Engineering** Hall, D. **CAREER Award Equipment Supplement**

CAREER Award Equipment Supplement National Science Foundation \$20,000 48 months

Physics

Biswas, N., Ruchti, R., et al. **Colliding Beam Experiment** National Science Foundation \$30,905 9 months Livingston, A. Atomic Structure of Highly-Charged Ions Department of Energy \$82,161 12 months Mathews, G. X-ray Emitting Gas and Stellar Remnants in Groups and Clusters National Aeronautics and Space Administration 36 months \$220,101 Chemical Evolution of Galaxies National Science Foundation \$27,300 24 months Tanner, C. Precision Measurements of Atomic Lifetimes Department of Energy 12 months \$136,558 Bunker, B. XAFS Collaboration Argonne National Laboratory 6 months \$5,000 Jones, G. Degree Scale CMBR and Anisotropies from Topological Defect National Aeronautics and Space Administration 24 months \$160.826 Wiescher, M. Experimental Study of Nuclear Reactions in Massive Stars Department of Energy \$601,406 36 months

Psychology

Cole, D. A Competency-Based Model of Child Depression National Institutes of Health \$309,148 12 months Day, J., Bolig, E. Children's Social-Cognitive Zone of Proximal Development Health and Human Services \$15,000 12 months

Radiation Laboratory

Ferraudi, G.

Charge Transfer Photochemistry of Re(I) Complexes National Science Foundation \$18,876 36 months

South Bend Center for Medical Education

McKee, E. Transport of Guanine and Pyrimid. Nucleotides in Mitochondria I.U. School Medicine \$165,000 36 months

PROPOSALS FOR FACILITIES AND EQUIPMENT

Physics

Kolata, J., LoSecco, J. Rare Radiative Decays of the Phi Meson National Science Foundation \$225,000 12 months

PROPOSALS FOR SERVICE PROGRAMS

Center for Social Concerns

McNeill, D. Service Learning Coordinator Chapin Street Clinic Indiana Campus Compact \$7,320 12 months

PROPOSALS FOR OTHER PROGRAMS

Office of Executive Vice President

Roemer, J. NYSP-Math/Science Education Program NCAA \$8,256 12 months



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