

# NOTRE DAME REPORT

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## **Liberace Foundation Gives Grants to Music Students**

The University has received a \$7500 grant from Liberace Foundation of Las Vegas, Nev., to assist students in the performing and creative arts.

The grant will provide scholarship support for two music students, Jeanine Wynton, a freshman violinist from Pasadena, Calif., and Miriam Eckelhoefer, a freshman cellist from Fallbrook, Calif.

Notre Dame is one of 59 institutions awarded scholarships grants from the foundation for the 1993-94 academic year. The late pianist and showman Liberace created the foundation in 1976 to provide scholarships for the arts.

This year's foundation grants total \$365,000, the largest series of grants and the most money awarded in the 17-year history of the foundation.

## **M.S. Degree in Geological Sciences Added in Engineering**

The Academic Council has approved a program in the Department of Civil Engineering and Geological Sciences leading to a master of science degree in geological sciences. At present, the civil engineering and geological sciences department offers programs leading to the master of science in civil engineering, environmental engineering and bioengineering, as well as the doctorate.

Graduates of the program likely will be employed by regulatory agencies, environmental consulting firms, and oil and mining industries.

Developing a graduate program in geological sciences was part of the rationale for the 1991 merger of the College of Engineering's civil engineering department with the College of Science's geological sciences department. The master's program in geological sciences will complement the Ph.D. program and build upon the department's current strengths in hydrology, the environment, earthquake engineering and geochemistry.

## **Architecture Achieves Autonomy**

The School of Architecture, now a department in the College of Engineering, will become a free-standing academic entity in September 1994. The change was approved by the Academic Council.

Architecture was first taught at Notre Dame in 1898 by a Chicago architect who commuted weekly to campus. The program was the first under Catholic auspices in the United States. A College of Architecture was established in 1906, but during World War I it became a department in the College of Engineering.

The School of Architecture's structure will remain departmental although its administration will report directly to the provost's office. The school has a total of 16 faculty, all of whom teach, build, conduct research and publish. The undergraduate student body numbers 220, including 70 freshman intents, and an endowment supports seven graduate students pursuing master's degrees in two inter-related programs.

Plans also are under way to renovate the Architecture Building during the 1994-95 academic year.

# FACULTY NOTES

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## Honors

**Thomas P. Bergin**, director emeritus of continuing education and professor emeritus of management, has been asked to accept a second three-year term on the board of directors of the Indiana Humanities Council.

**Paul F. Bradshaw**, professor of theology, was appointed to the advisory board of the series, *Liturgia condenda*, published by the Liturgical Institute of the Theology Department, University of Utrecht, The Netherlands.

**James J. Carberry**, professor of chemical engineering, was elected to the executive board of directors of the Yale Sciences and Engineering Association.

**Edward J. Conlon**, chairperson and professor of management, was reappointed to the editorial board of *Academy of Management Journal* for the period 1994-96. He was appointed to the board of consulting editors of *Journal of Applied Psychology* for the period 1994-95.

**Lawrence S. Cunningham**, chairperson and professor of theology, was elected to the steering committee of the Society for the Study of Christian Spirituality, Nov. 21. He was appointed consultant to the editorial board of Continuum Publishers of New York.

**Gregory Evans Dowd**, associate professor of history, received an outstanding book award on the subject of human rights in the United States by The Gustavus Myers Center for the Study of Human Rights in the United States for "A Spirited Resistance: The North American Indian Struggle for Unity, 1745-1815" (Johns Hopkins, 1992).

**Edward A. Kline**, professor of English and O'Malley director of the Freshman Writing Program, was named the recipient of the first annual Indiana College English Association Award for Excellence in Teaching and Scholarship for 1993.

**Ruey-wen Liu**, Freimann professor of electrical engineering, has been elected 1994 president-elect of the IEEE Circuits and Systems Society.

**Ralph M. McInerney**, Grace professor of medieval studies, director of the Maritain Center and professor of philosophy, received a Lifetime Achievement Award from Bouchercon, Mystery Writers Association, in Omaha, Nebr., Oct. 2.

**Donald E. Sporleder**, professor of architecture, was appointed to the Bike and Pedestrian Route Planning Committee of the Michiana Region Council of Governments in July and was elected vice chair of the committee at the

Nov. 10 meeting. The committee work involves non-motorized corridor planning and Region Bikeway considerations related to the Intermodal Surface Transportation Efficiency Act requirements.

**J. Kerry Thomas**, Nieuwland professor of chemistry and biochemistry, has been named the 1994 recipient of the American Chemical Society Award in colloid or surface chemistry.

**Kwang-tzu Yang**, Hank professor of aerospace and mechanical engineering, received the 1993 Dedicated Service Award of the American Society of Mechanical Engineers "for his dedicated voluntary service to the Society marked by outstanding performance, demonstrated effective leadership, prolonged and committed service, devotion, enthusiasm, and faithfulness" at the 1993 winter annual meeting in New Orleans, La., Nov. 28-Dec. 3.

## Activities

**Craig Adcock**, professor of art, art history and design, chaired a session titled "The Environment as Image" and delivered the paper "Enframing the Environment: The Ecological Implications of Earthworks" at the conference "Images of the Environment: Evolving Perspectives on the Global Commons" at Northern Arizona University in Flagstaff, Ariz., Nov. 5.

**Peri E. Arnold**, professor of government and international studies delivered a lecture titled "The Progressive Presidency and the Problem of Institutional Change" at the Miller Center of Public Affairs of the University of Virginia in Charlottesville, Va., Sept. 29. He delivered a paper titled "In the Arena of Executive Reorganization: Herbert Hoover and His Fellow Presidents, 1921 to 1960" at a conference on Hoover and the Twentieth Century Presidency organized by George Fox College in Newberg, Ore., Oct. 23. He delivered a lecture titled "The Evolution to the Progressive Presidency" at the Miller Center of the University of Virginia in Charlottesville, Va., Dec. 7.

**Peter H. Bauer**, assistant professor of electrical engineering, presented the invited lecture "Quantisierungsfelder in schnellen Digitalfilter-Realisierungen mit Uclerzen, anwendaugsablaugigen Datenformaten" at the Heinz-Nixdorf Institut of the Department of Electrical Engineering, University of Paderborn, Germany, Dec. 17.

**Joseph Blenkinsopp**, O'Brien professor of theology, read the paper titled "Autobiography in Antiquity: The Nehemiah Memoir" at the annual meeting of the Institute for Ancient Near Eastern and Afroasiatic Cultural Research in Washington, D.C., Nov. 19.

# FACULTY NOTES

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**Robert J. Brandt**, professional specialist in architecture, was invited by the J. Paul Getty Museum to measure and document an ancient Greek sculpture in Malibu, Calif., Aug. 9. He delivered an invited lecture on current personal works at Indiana State University's Department of Art in Terre Haute, Ind., Dec. 2.

**Joan F. Brennecke**, assistant professor of chemical engineering, presented the invited seminar "Local Solvent Effects on Reactions in Supercritical Fluids" to the Department of Chemical Engineering at the University of Illinois in Champaign-Urbana, Ill., Oct. 26. She presented "The Effect of Local Solvent Environments on Kinetically Controlled and Diffusion-Controlled Reactions in Supercritical Fluids" to the Department of Chemical Engineering at the University of Tulsa in Tulsa, Okla., Oct. 29. She gave the seminar "The Influence of Local Solvent Environments on Reactions in Supercritical Fluids" to the Department of Chemistry at Western Michigan University in Kalamazoo, Mich., Nov. 1. Brennecke co-authored "Laser Flash Photolysis Studies of Molecular Structure from Reactions in Supercritical Fluids" presented by Christopher B. Roberts, presented "Laser Flash Photolysis Investigations of Diffusion-Controlled Reactions in Supercritical Fluids" and organized seven sessions on Thermodynamic and Transport Properties at the annual AIChE meeting in St. Louis, Mo., Nov. 7-12.

**Theodore J. Cachey Jr.**, assistant professor of Romance languages and literatures, was appointed at the University of Chicago as Alexander White visiting associate professor in the Department of Romance Languages and Literatures and in the Committee on Comparative Literature during the fall 1993 quarter. He gave the invited lecture "The Book of a Courtier: Pigafetta's *First Voyage Around the World*" in the Department of French and Italian at the University of Wisconsin in Madison, Wis., Sept. 29.

**James J. Carberry**, professor of chemical engineering, presented an invited lecture on "Heterogeneous Catalysis-Fractal Decay and Diffusional Interactions" at the University of Bologna, Italy, Sept. 1. He presented invited seminars on "Fluid Bed Reactors," "Fractal Affected Catalysis" and "Catalysis Over Solid-oxide Solutions" at L'Eniricerche and Snamprogetti, Milan, Italy, Sept. 7-8. He presented an invited plenary lecture on the occasion of the retirement of J.F. Davidson, FRS, as Shell Professor of Chemical Engineering at Cambridge University, England, Sept. 13. He presented a seminar on his recent research at Notre Dame as distinguished lecturer at the University of Toronto in Toronto, Canada, Oct. 27.

**Francis J. Castellino**, dean of science and Kleiderer-Pezold professor of biochemistry, presented an address on "Grants and Grantsmanship. A Peer Reviewer's Perspective" at the annual meeting of the American Society of Hematology in St. Louis, Mo., Dec. 4.

**Hsueh-Chia Chang**, chairperson and professor of chemical engineering, presented an invited seminar titled "Wave Evolution on a Falling Film" at the Department of Applied Mathematics and Theoretical Physics at Cambridge University, England, Oct. 22, at the Department of Chemical Engineering at the Prague Institute of Chemical Technology in Prague, The Czech Republic, Oct. 26, and at the Department of Mathematics at the University of Birmingham in Birmingham, England, Nov. 19. He chaired a session "Pattern Formation and Dynamics" at the AIChE annual meeting at St. Louis, Mo., Nov. 7-12. He gave the following presentations at that meeting: "Dynamics and Controlled of Spatial Temporal Chaos during Oscillations on a Rh/SiO<sub>2</sub> Wafer," "Apparent Dynamical Contact Angles of an Advancing Gas-Liquid Interface," "Competition Between Convective Sideband and Subharmonic Instabilities for a Falling Film," "Defect-Mediated Transition to Interfacial Turbulence in 2-Phase Channel Flow," "Pattern Formation Induced by Differential Convection/Diffusion in Activator/Inhibitor Systems" and "Effect of Regular and Chaotic Mixing on Bimolecular Chemical Reaction in Helical Coil Reactors."

**Sr. Regina A. Coll, C.S.J.**, professional specialist in theology, presented the Hesburgh lecture "Women: Image of Christ?" to the Notre Dame Alumni/ae club in Ann Arbor, Mich., Nov. 7. She presented "Christianity and Feminism in Conversation" at the Association of Professors and Researchers in Religious Education annual meeting in Fort Worth, Tex., Nov. 14. She presented "Women in a Catholic University: The Challenge and Promise" in a conversation on the Catholic character of Notre Dame in Notre Dame, Ind., Nov. 16. She served as a panelist for *South Bend Tribune* news staff on "The Uniqueness of Denominations" in South Bend, Ind., Nov. 17.

**Daniel J. Costello Jr.**, chairperson and professor of electrical engineering, presented the invited tutorial lecture "An Introduction to Coded Modulation" and an invited paper "Improved Trellis Codes with Multidimensional Constellations for High Speed Modems" at the 1993 international symposium on Communication in Hsinchu, Taiwan, Dec. 7-8.

**Lawrence S. Cunningham**, chairperson and professor of theology, gave a symposium lecture "Thomas Merton: Spiritual Master" and two homilies at St. Gregory the Great Catholic Parish in St. Paul, Minn., Nov. 6-7. He presented the lecture/seminar "Higher Education: The Catholic Ethos" at Bellarmine College in Louisville, Ky., Nov. 12. He gave three presentations on "Catholic/Jewish Relations" in honor of the Abrams Professorship in Jewish Studies in Atlanta, Ga., Dec. 2-3. He presented the Hesburgh Lecture "Dropping Out of the Church" at San Dimas, Calif., Dec. 4. Cunningham gave the Hesburgh Lecture "The Catechism of the Catholic Church" to the Notre Dame Club of Orange County, Calif., Dec. 5.

# FACULTY NOTES

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**Roberto A. DaMatta**, Joyce professor of anthropology, lectured on "Public Space, Redemocratization, and Power in Brazil" to the Lateinamerika-Institut of the Free University of Berlin, Germany, Dec. 2. He lectured for the Haus der Kulturen der Welt (The House of World Cultures) on "Rethinking Popular Culture" in Berlin, Germany, Dec. 5.

**Sr. Elaine DesRosiers, O.P.**, professional specialist and director of Educational Media, presented slide/lectures titled "Vietnam in Review" at Notre Dame, Ind., Oct. 11. She was a guest lecturer on "The Effect of Sanctions on the People of Vietnam, Nicaragua, and Cuba" in a class of the Department of Government and International Studies at Notre Dame, Ind., Oct. 14. She presented "Vietnam Today" at the Sunnyside Presbyterian Church in South Bend, Ind., Oct. 21. DesRosiers presented "Reflections on Vietnam" for the United Nations Associations annual meeting in South Bend, Ind., Dec. 1. She presented "Vietnam, Education and Media" at the conference "The United States and Vietnam: From War to Peace" at Notre Dame, Ind., Dec. 4.

**Julia V. Douthwaite**, assistant professor of Romance languages and literatures, presented a paper titled "The Tension Between Private Vision and Public Gaze in Rousseau's Autobiography and Eighteenth-Century Painting" at the annual meeting of the Modern Language Association in Toronto, Canada, Dec. 29.

**J. Massynbaerde Ford**, professor of theology, presented the paper and illustrations "Construction of the Other: The Antichrist" to the CJA Seminar at the University of Notre Dame, Notre Dame, Ind., Nov. 10.

**Jean-Francois Gaillard**, assistant professor of civil engineering and geological sciences, organized with Paul Treguer, University of Bretagne Occidentale, Brest, France, a workshop on "France Southern Ocean Program: Antares" for the international program on JGOFS-Southern Ocean in Brest, France, Dec. 16-17. He presented the paper "Early Diagenesis of the Organic Matter in Deep-Sea Sediments of the Southern Ocean" at that program.

**Christopher S. Hamlin**, associate professor of history, presented the paper "What Farr Wrought: Theory and Practice of Causes of Death Registration in Britain, c. 1840" at the international conference on the History of Causes of Death Registration in Bloomington, Ind., Nov. 11-14.

**Paula Higgins**, associate professor of music, served as an invited panelist on a six-hour colloquium on the topic "Intertextualität im Lied des 14. und 15. Jahrhundert" (Intertextuality in Fourteenth- and Fifteenth-Century Song) at the Internationaler Kongress der Gesellschaft für Musikforschung held in Freiburg, Germany, Sept. 27-Oct. 1. She served as chair of the American Musicological

Society's 1993 Alfred Einstein Award Committee, which honors the best article by a younger scholar, and presented the award at the society's national meeting held in Montreal, Quebec, Nov. 4-7.

**John M. LoSecco**, professor of physics, gave the invited talk "Performance of a CsI Soft Photon Veto at the Brookhaven MPS" at the Inauguration of the Detector Collaboration for PEP-II at the Stanford Linear Accelerator Center of Stanford University in Stanford, Calif., Dec. 2.

**Michael Lykoudis**, associate professor of architecture, gave the lecture "The Curriculum of the School of Architecture at Notre Dame and the New Classicism" at the University of Miami School of Architecture in Coral Gables, Fla., Nov. 8.

**James J. Mason**, assistant professor of aerospace and mechanical engineering, co-authored a paper presented by G. Ravichanran at the ASME winter annual meeting titled "An Investigation of Thermomechanical Instabilities Using a Kolsky Pressure Bar" in New Orleans, La., Nov. 29-Dec. 3.

**William D. McGlinn**, professor of physics, gave a talk titled "Classical Configuration Space and the Spin — Statistics Connection" at King's College, London University, in London, England, Oct. 13.

**Philip Mirowski**, Koch professor of economics, gave an invited lecture "Treatments of Error in the Sciences: Physics, Psychology and Economics" to the Department of Economics and the Center for the Study of Science at Virginia Polytechnic Institute and State University in Blacksburg, Va., Nov. 5. He presented the paper "Error Accounting as Arbitrage" at the Purdue meetings of the Society for Social Studies of Science in West Lafayette, Ind., Nov. 20.

**Jerome H. Neyrey**, professor of theology, presented the paper "Women's 'Place' in Antiquity: Forms for 'Women's Quarters' in the Light of Gender Stereotypes" at the Society of Biblical Literature in Washington, D.C., Nov. 20.

**Rev. Thomas O'Meara, O.P.**, Warren professor of theology, presented "The History of Ministry in the Church" and "Important Contemporary Theological Issues for Preaching" for the Central Michigan Ecumenical Lecture Series for Veterans Hospital in Battle Creek, Mich., June 8.

**Samuel Paolucci**, associate professor of aerospace and mechanical engineering, presented a paper titled "Temperature Measurements on an Aluminum Alloy Permanent Mold Casting Process Under Production Conditions" and chaired a session on "Advanced Techniques in Numerical Heat Transfer" at the 1993 winter annual meeting of ASME in New Orleans, La., Nov. 28-Dec. 3.

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**Jean Porter**, associate professor of theology, gave the paper "Virtue Theory and Moral Rules" at the conference on Christian Ethics and the Natural Law at Emory University in Atlanta, Ga., Nov. 5-6.

**John E. Renaud**, Clark Equipment assistant professor of aerospace and mechanical engineering, presented an invited lecture titled "Multidisciplinary Design Technology Development: A Comparative Investigation of Integrated Aerospace Vehicle Design Tools" at a workshop titled "HSCT Challenges and Opportunities for MDO" sponsored by the Georgia Institute of Technology's Manufacturing Research Center in Atlanta, Ga., Dec. 6-7.

**Randal C. Ruchti**, professor of physics, co-chaired the "Workshop on Scintillating Fiber Detectors — SciFi93" held at the University of Notre Dame, Notre Dame, Ind., Oct. 24-28.

**James H. Seckinger**, director of the National Institute for Trial Advocacy and professor of law, served as program coordinator and a faculty member for the NITA/Price Waterhouse Expert Witness Program in Seattle, Wash., Nov. 3-5. He was program coordinator and a faculty member for the NITA/Freshfields/Linklaters & Paines Trial Advocacy Programme in London, England, Nov. 15-20. He gave lectures to the faculty on Effective Teaching Techniques.

**Mei-Chi Shaw**, professor of mathematics, presented a paper "Homotopy Formulas for  $\partial_b$  on CR Manifolds with Mixed Levi Signatures" at the joint international meeting of the American Mathematical Society and the Deutsche Mathematiker Vereinigung in Heidelberg, Germany, Oct. 1-3. She gave the talk titled "Solvability and Estimates for the Tangential Cauchy-Riemann Equations" at the University of Cambridge, England, Nov. 10. She presented two invited talks at the joint Bonn-Wuppertal seminars in complex analysis on "Homotopy Formulas for  $\partial_b$  with mixed Levi signatures" at Wuppertal, Germany, Nov. 22.

**Dennis M. Snow**, associate professor of mathematics, was a guest professor at the Ruhr-University, supported by the DFG-Schwerpunkt "Komplexe Mannigfaltigkeiten," in Bochum, Germany, Aug. 23-Sept. 30, Oct. 25-Nov. 22.

**Billie F. Spencer Jr.**, associate professor of civil engineering and geological sciences, presented a seminar titled "Reliability-Based Measures of Structural Control Robustness" at Washington University in St. Louis, Mo., Nov. 8.

**Nancy K. Stanton**, professor of mathematics, gave two lectures on "An Introduction to CR Manifolds" at the Mathematical Sciences Research Institute in Berkeley, Calif., Nov. 17-18. She gave a lecture on "Infinitesimal of Rigid Hypersurfaces in  $\mathbb{C}^n$ " in the joint Mathematical Sci-

ences Research Institute-University of California at Berkeley Differential Geometry Seminar in Berkeley, Calif., Nov. 18.

**Arvind Varma**, Schmitt professor of chemical engineering, presented a paper titled "A New Expression for the Velocity of a Combustion Front during Self-Propagating High-Temperature Synthesis" at the annual meeting of the American Institute of Chemical Engineers held in St. Louis, Mo., Nov. 7-12. He co-authored three other papers presented at the meeting: "Combustion Synthesis of Intermetallic Aluminides: Mechanistic and Processing Studies" presented by doctoral student Cynthia Kachelmyer, "Experimental and Modeling Studies on the Aqueous-Phase Adsorption and Desorption of Toluene in Activated Carbon Fixed-Beds" presented by doctoral student Dimitrios Chatzopoulos, and "Some New Considerations Involving Gas-Solid Reactions Following the Sharp Interface Model" co-authored by William Strieder, professor of chemical engineering, and presented by postdoctoral research associate Giacomo Cao. Varma co-authored two papers presented at the second international symposium on Self-Propagating High Temperature Synthesis held in Honolulu, Hawaii, Nov. 8-10. The papers titled "Combustion Synthesis of Intermetallic Aluminides" and "Microstructural Aspects of SHS in the Ti-Si and Ti-Al Systems" were presented by research associate Alexander Rogachev. The former paper was co-authored by Paul J. McGinn, associate professor of electrical engineering.

**Raimo Väyrynen**, Regan director of the Kroc Institute and professor of government and international studies, gave a lecture on "Northern Europe between Russia and the European Union" at the Woodrow Wilson Center for Scholars in Washington, D.C., Dec. 16.

**Mitchell R. Wayne**, assistant professor of physics, co-chaired the "Workshop on Scintillating Fiber Detectors — SciFi93" held at the University of Notre Dame, Notre Dame, Ind., Oct. 24-28.

**Thomas Werge**, professor of English, gave the keynote address "Rituals of Attentiveness: Teaching as Faith and Story" at the Indiana College English Association conference at Valparaiso University in Valparaiso, Ind., Oct. 2.

**Rev. James F. White**, professor of theology, gave the lecture "Do the Divorced Have a Prayer?" at Little Flower Church in South Bend, Ind., Nov. 30.

**Kwang-tzu Yang**, Hank professor of aerospace and mechanical engineering, served as the general chairman, appeared in two panel sessions and attended numerous committee meetings at the winter annual meeting of the American Society of Mechanical Engineering in New Orleans, La., Nov. 28-Dec. 3.

# ADMINISTRATORS' NOTES

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## Appointments

Sean R. Farrell, a 1977 graduate with a bachelor's of business administration degree in finance, has been appointed assistant regional director of development for the Los Angeles office. Farrell comes to Notre Dame from Havens & Associates of Riverside, Calif., an agent representing IBM in a major portion of the Southern California market. He has also worked for Tandem Computers, Inc., Wang Labs, Inc., and for IBM.

## Activities

Mike W. Miller, consultant/analyst in the Office of University Computing, co-presented a paper titled "Creating and Supporting DeBartolo Hall — The Agony and the Ecstasy" with Sr. Elaine DesRosiers, O.P., professional specialist and director of Educational Media, and Michael Langthorne, associate director of Educational Media, at the EDUCOM Forum in Cincinnati, Ohio, Oct. 21. He presented a paper titled "Managing Macs Made Painless — Leveraging the Right Tools for the Job" at the ACM SIGUCCS User Services Conference in San Diego, Calif., Nov. 9.

Peter Pranica, director of alumni community service programs, Alumni Association, presented "Community Service: Powering Up to be a Point of Light Without Short Circuiting" to the CASE District 5 Conference in Chicago, Ill., Dec. 13.



## 253rd Graduate Council Minutes November 3, 1993

**Members present:** Nathan O. Hatch, chair; Harold W. Attridge; JoAnn DellaNeve; Peter Diffley; Gregory E. Dowd; Rita P. Francis; Morton S. Fuchs; Ethan T. Haimo; John W. Houghton; Jeffrey C. Kantor; John G. Keane; Scott P. Mainwaring; Anthony N. Michel; Robert C. Miller; Wilson D. Miscamble, C.S.C.; Thomas J. Mueller; Kathie E. Newman; Thomas L. Nowak; Sharon L. O'Brien; James H. Powell; Andrew J. Sommese; Barbara M. Turpin; Chris R. Vanden Bossche; John H. Van Engen; Diane R. Wilson.

**Members absent and excused:** Francis J. Castellino, represented by Kathie E. Newman; Kimberly A. Gray.

**Guests:** Stephen E. Gersh; Thomas O'Meara, O.P.

**Observers:** Edward J. Conlon; Chau T.M. Le.

Prof. Nathan O. Hatch opened the meeting at 3:30 p.m. on November 3, 1993, in Room 210, Center for Continuing Education. He welcomed guests Stephen Gersh, acting director of the Medieval Institute, and Thomas O'Meara, a member of the internal review committee for the Medieval Institute program review. He also welcomed council members Ethan Haimo, who chaired the review committee, and John Van Engen, director of the Medieval Institute, who returned from his sabbatical leave at Princeton to take part in this discussion. He noted that two other members of the internal review committee, Joan Aldous and James Cushing, would not be present.

Prof. Hatch said he decided to reverse the order of the formal agenda and take up the review discussion before making his remarks about the state of the Graduate School.

### I. MINUTES OF THE 252nd GRADUATE COUNCIL MEETING

Prof. Kantor offered a few clarifications and typographical corrections, which he submitted in writing to Prof. Hatch. The minutes were then approved by voice vote.

### II. REVIEW OF THE MEDIEVAL INSTITUTE

Prof. Haimo presented a brief summary of the internal review committee's report on the Medieval Institute's external review. He spoke first of the institute's tremendous change in focus over the past decade from a principal emphasis on philosophical issues to a broadly interdisciplinary

nary approach, an evolution that is not yet complete. Even at this stage, however, there is overall agreement that the change is not only healthy but also very strong and attractive. Eleven departments now contribute faculty to the institute's programs, Prof. Haimo said, and the institute encompasses a wide variety of methodological approaches. With change comes problems, but they are being dealt with effectively, he said. It's no surprise that library resources are high on the list of needs, he continued, although the problem is not so much in the central core collection; with the growth in scope, other areas are inadequate. One reviewer's comment was that we have a first-rate medieval collection in the midst of a third-rate library. Prof. Haimo said the reviewers praised the faculty and the new curriculum and program, although they noted problems in execution from year to year. All in all, he concluded, it was a very positive review.

On the question of interdisciplinarity, Prof. Gersh said he observed equivocation in some of the language of the reviews, and he noted that over the last 20 years use of the term has changed to include critical theory and other methodologies. The Medieval Institute must change as well in terms of approaches used, he said. Prof. Vanden Bossche questioned the specificity of the recommendation for a faculty position in medieval liturgy or Byzantine history. Prof. Haimo responded that the idea is to have a broad focus in the program as a whole, and therefore we need a wide variety of professors in different disciplines. Prof. Gersh said positions like that might be justified in the old use of the term interdisciplinary; in the new sense, however, we might need someone in literary theory.

Fr. Miscamble asked what the institute's experience has been in placing interdisciplinary people and Prof. Van Engen responded that there is no clear track record yet on placing people being trained in the new way. On the broader question of recruiting, he said, his emphasis in structuring the program is that people come out with enough discipline-specific training that they look like specialists; all the rest is enrichment. Mr. Houghton commented that there is still a tendency for people to write dissertations which would fit in a specific area, because they are concerned about placement. Prof. Gersh said it is partly a matter of description, that is, of how one describes oneself when applying for a position.

Why isn't the message getting across to the graduate students, who feel that interdisciplinarity is more theory than reality? Prof. Fuchs asked. Because we offer courses from specific departments, Prof. Van Engen replied. Students are asking for courses which break down specific disciplines. Such courses are not easy to arrange; they may take team teaching. "I take it as a legitimate criticism," he said. Prof. Gersh added that some of the reviewers' comments refer to the curriculum before it was



changed. The curriculum is really quite new, only about two years old, he said.

We're in a double bind when working with students, Prof. Van Engen said. Students criticize the institute for not being interdisciplinary enough, but students also want to limit themselves to one program and need to be reminded that they're in an interdisciplinary program.

Prof. Mainwaring observed that one problem in an interdisciplinary situation can be extending the time to degree in the Ph.D. program. Prof. Van Engen said it is his impression that Notre Dame is in the middle compared to other institutions: here, students take two years of interdisciplinary course work, ending with a master's degree. The next year is shaped by students with their advisers, then they're on to the dissertation. At Princeton, he said, students seem to move more quickly into research, while at UCLA, they are in course work much longer.

Mr. Houghton noted the continuing problem of fifth-year funding.

Fr. O'Meara recalled listening to a conversation in which students recognized the limited number of jobs in medieval studies and realized they might have to present themselves for theology or philosophy positions. That discussion was positive, he said, but it seems to leave two questions: one, what are you training the students for?—to be high-level scholars like yourselves? or are you training them to be teachers? two, should the institute have more and more interdisciplinary specializations? It seems to me the external reviewers were saying no, because of high cost and few jobs.

In an ideal world, Prof. Gersh responded, people would be hired in interdisciplinary medieval positions. In the real world, we send people out for disciplinary positions but their interdisciplinary training makes them, as medievalists, better practitioners of an individual discipline. An absence of positions therefore is no argument against our approach.

Prof. DellaNeva noted that when her department was looking for a specialist in Spanish literature, it hired from Toronto's medieval program. She then asked if medieval studies students do their student teaching in departments or for the institute. Prof. Van Engen replied that sending students to teach in departments is one way the institute can repay departments for the faculty they contribute to the program. It also gives the students a disciplinary specialization, and he said he tries to make sure every student gets at least one year of teaching in a department, although coordinating student and department needs can be difficult.

Mr. Miller said he wanted to link the first and fifth recommendations, that is, that the necessary resources be assured before new programs, such as the recommended positions in medieval liturgy and Byzantine history, are initiated. The promised Anastos collection is superb, he said, but it will be costly to maintain and it will not necessarily help someone in medieval liturgy or Byzantine history.

Prof. Fuchs asked Prof. Van Engen how he feels about the "minor" recommendation that an external examiner be appointed to dissertation defense committees. Prof. Van Engen said that it depends on who pays for it. Toronto spends a lot of money to do this, he said, but such a practice keeps us honest because it's one more check on the system to prevent passing people through when it's not warranted.

Prof. Fuchs then asked if the problem regarding course availability is valid and, if so, what are the solutions. Prof. Van Engen said that the problem is not so common that it's horrendous. He commented that his office could be more proactive but it's not easy because departments have their own pressing needs.

Fr. Miscamble asked if the reviewers' remarks on the lack of distinguished faculty took into account the recent hirings of Professors Signer and O'Keefe. Yes, Prof. Van Engen replied, and they're certainly distinguished, but we don't have a senior scholar with a distinguished reputation among medievalists as a whole.

### III. ADMISSION TO DEGREE CANDIDACY

Prof. Hatch asked for a motion to approve the applicants for degree candidacy; a motion was made and was approved by voice vote.

### IV. "STATE OF THE GRADUATE SCHOOL"

Before beginning his report to the council, Prof. Hatch made several announcements. First, regarding the December Graduate Council meeting, he alerted members to expect a memo changing the scheduled date. He said the purpose of the December meeting will be to describe the experience of women graduate students at Notre Dame and elsewhere. The Graduate School office will distribute an article in advance to prime the discussion, and several panelists will make brief presentations at the meeting. He also called to the attention of council members the Faculty Research Program, which has replaced the Jesse Jones Fund as a source of seed money for faculty research. Now in its second year, the program received 43 applications last year and made 10 awards. The application deadline

for the new round is January 21; about \$65,000 will be awarded, with the maximum award being \$7,500.

Prof. Hatch began his remarks about graduate education at Notre Dame by reviewing the five goals he set four years ago:

- to gain comprehensive University commitment to achieve distinction in graduate education.
- to articulate the centrality of graduate education and research for the University to achieve its overall aspirations.
- to make the Graduate School a catalyst, a creative force in shaping graduate education.
- a related goal: to make quality the hallmark of graduate programs and students.
- to develop a proactive and faculty-oriented research office — “which we are doing under Tony Hyder.”

He then offered his assessment of the current situation. Notre Dame's overall efforts in graduate education are small in various respects, he said. He compared Notre Dame's production of about 100 Ph.D.s a year with that of several other universities: 129 at Brown, which has about the same size faculty as ours; more than 200 at Duke, which has a larger faculty; about 100 at Emory, which has a smaller faculty; 133 at Vanderbilt; 163 at Washington. In number of programs, Notre Dame is at the low end with 23, and some programs hardly have a critical mass of students to keep programs alive. Even chemistry, one of our largest, is small compared to other chemistry programs, he said.

Prof. Hatch said there has been dramatic improvement in graduate education over the last decade and recent external reviews generally say we're better than our reputation. We have some great strengths, he said, and other areas are not so strong. Some areas show evolutionary growth and others, a more distinctive pattern. He noted that the greatest change has been in the College of Engineering.

Referring to a handout comparing GRE scores of incoming Ph.D. students at selected peer institutions, Prof. Hatch observed that Notre Dame's scores are on an upward curve. They are higher than some, which is positive, but substantially lower than Princeton's and Duke's, which shows how far we have to go. Their ability to win external fellowships is another sign of student quality, and Notre Dame shows evidence of substantial improvement on that score.

We get bright students who come from decent schools but not distinguished ones, he said, and they generally are not from research-intense environments. However, in our best programs and with special fellowships, we can attract the very best students, and in those programs the

GRE average jumps to the range that Princeton and Duke enjoy.

Assessing the quality of our graduates, he said that, with notable exceptions, we put out good and solid Ph.D.s but not superb ones. The program reviews indicate that our dissertations are not on the cutting edge of their disciplines; in science and engineering, placement tends to be in industry; in arts and letters, we place graduates in second-tier colleges. Speculating about why this is generally true, he said perhaps we are training teachers rather than scholars, or it may reflect our lack of funding in later years.

Regarding funding for graduate education, he said the overall budget is \$20 million, including \$9 million for stipends and \$11 million for tuition. The average budget increase has been 7.3 percent for each of the last four years, which is better than inflation during a time when the administration is trying to restrict the growth of undergraduate tuition; the Graduate School has received its fair share, he said. The money has gone to increasing stipends and to creating a modest number of new positions, roughly equally divided over the four divisions. He again referred to a handout, calling attention to a comparative study of stipends by institution. He concluded that at Notre Dame, the greatest need in arts and letters is creating more stipends; in science and engineering, the need is to get the base to a more competitive level.

Regarding long-term prospects, Prof. Hatch said that so far, we've “raised the banner” and raised expectations but the University has not yet made the commitment to address the needs of graduate education. However, the commitment to raise \$40-50 million for graduate education in the next capital campaign is serious and he is hopeful that it will be realized. When it is realized, he said, his philosophy for enriching graduate education will include at least four approaches:

First, selective excellence: flagship departments, perhaps one in each division, carefully chosen. Selective fellowships might be helpful here, he said — who can bring in the best students?

But that can't be the only approach, he said. In one sense, we are selective by having only 23 programs. So, second, we also have to contribute to all the programs we have.

Third, in arts and letters, increase the number of packages and modestly raise stipends, and in science and engineering, make stipends more than competitive.

Fourth, hold departments to higher standards and raise the minimum standards for students we admit and fund.

Prof. Hatch said he would support a limited number of new programs, but they cannot be started without large endowments.

He then invited discussion, which began with an exchange of comments about the difficulty of comparing stipends and benefit packages among institutions. Then Prof. Fuchs observed that Notre Dame's teaching load, even though light, has been an obstacle to attracting top scholars to the science faculty, but Prof. Nowak countered that research support is the attraction for the top people in experimental science.

Prof. Michel said the University must make a stronger comprehensive commitment to graduate education if our scholarship and reputation are to rank as highly as our endowment, which is the 16th largest endowment in the country. He said the best private engineering institutions in the Midwest — Northwestern, Case, Washington University in St. Louis — are good models which we might imitate in some respects.

Prof. Kantor said that planning for success at the graduate level, which is less centralized and more dependent on departmental activity than is undergraduate education, requires responding to needs at the grass roots level. Several comments followed about strategies for filling faculty positions based on graduate-level needs and about the pros and cons of investing in a few flagship programs.

Prof. Mainwaring said that, while he shares the general sentiment that there is a long way to go, the large increase in number of applicants and the concurrent increase in selectivity is impressive. In academia, where change comes in generations, he said, we're within reach of improving dramatically *within* a generation. He also complemented Prof. Hatch on the tremendous mileage gotten from the new special fellowships.

Mr. Houghton commented that the graduate student population still tends to be overlooked, but Fr. Miscamble said the charge was unfair; he noted that the undergraduates have been hurt by the reduction in faculty teaching loads which has resulted in larger classes. Prof. Hatch said there has been substantial progress toward making this a 12-month campus, one which recognizes the needs of graduate students.

Ms. Francis emphasized the need to look at the infrastructure for graduate education and research, and Prof. Hatch responded that he chairs the University's new committee on infrastructure recommended by the Colloquy report.

Prof. Hatch invited those with further comments to contact him, and he adjourned the meeting at 5:06 p.m.

## Academic Council Minutes October 19, 1993

**Members in Attendance:** Edward A. Malloy, C.S.C., Timothy O'Meara, E. William Beauchamp, C.S.C., Roger Schmitz, Patricia O'Hara, Nathan Hatch, Harold Attridge, Francis Castellino, John Keane, Eileen Kolman, Anthony Michel, Richard Sheehan, Lynn Friedewald, Frank Bonello, David Burrell, C.S.C., Paula Higgins, Mark Pilkinton, John Roos, Mario Borelli, Robert Hayes, William Shephard, Hafiz Atassi, Carolyn Callahan, Edward Conlon, Carol Mooney, Lorry Zeugner, Kenneth DeBoer, Kathleen Maas Weigert, Randall Poole and Megan Timmins

**Observers in Attendance:** Douglass Hemphill, Thomas Moe and Dennis Moore

**Guests:** Stephen Gersh, Guillermo O'Donnell, Raimo Väyrynen and Charles Wilbur

Prof. O'Meara opened the meeting at 3:04 p.m. with a prayer.

1. **Minutes.** The minutes of the meeting of September 15 were approved. Prof. Schmitz distributed copies of the minutes of the September 29 meeting and asked the council members to submit any suggestions for amendments to him prior to the next meeting.

2. **Announcements.** Fr. Malloy informed the council that at a recent meeting, the Board of Trustees approved a motion entrusting him to prepare an official University response, in consultation with the University officers, to the draft ordinances on the implementation of *Ex corde Ecclesiae* in line with what was approved at the September 29 council meeting. He added that the Trustees also authorized him to cosign statements with a similar perspective, such as those resulting from the recent meetings of Catholic colleges and universities in Boston and of Holy Cross affiliated institutions.

Concerning the council recommendation initiated by the Faculty Affairs Committee and approved at the meeting of September 29 to amend Section III, Paragraph 3 of the bylaws of the University, Prof. O'Meara said that the Fellows of the University support the principle contained in the proposal but have reservations about changing the bylaws. First, the Fellows observed that as it currently stands, Section III, Paragraph 3, permits what the amendment seeks — elected faculty representation on the board's Academic and Faculty Affairs Committee from the colleges, the Law School and the library. Second, the Fellows request information on the election procedures that are currently employed. Prof. O'Meara requested that

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those members of Faculty Affairs Committee of the Academic Council who also serve on the board's Academic and Faculty Affairs Committee describe the election procedures at the next meeting of the latter committee. Prof. Bonello agreed to follow through on this request.

Prof. O'Meara announced that the Executive Committee received and concurred with a recommendation from the council's Undergraduate Studies Committee that the University Curriculum Committee funnel its recommendations through the Undergraduate Studies Committee for comments prior to presentation for full discussion to the Academic Council. As chair of the Curriculum Committee, he stated the committee's intention to follow this procedure so that no formal council action was required.

**3. Review of proposed statutes for the purpose of designating the Kellogg, Kroc and Medieval Institutes as *University Institutes*.** Fr. Malloy introduced this topic by referring to discussions in the Academic Council last year which concluded with a revision of Academic Article II, Section 8. That article states that those entities designated as *University Institutes* are to be governed by special statutes approved by the president upon recommendation of the Academic Council. He called attention to statutes, or constitutions, that have been submitted for council consideration by the Kellogg, Kroc and Medieval Institutes. Prof. O'Meara noted that these documents will not be incorporated into the Academic Articles, but will serve as internal documents for use by the institutes and the Provost's Office. He suggested that the council discuss the proposals at this meeting with the intention that revised versions, that take into account comments and suggestions made in the course of this discussion, will be brought back for a vote at a later meeting.

**a. The Helen Kellogg Institute for International Studies.** Prof. O'Donnell, presented an overview of the Kellogg Institute and the draft constitution. (See Attachment A.) He pointed out that although the institute's traditional focus has been Latin America, it maintains an active research network across North America as well. In response to recommendations resulting from external review, the Kellogg Institute has been carefully broadening its research focus to include Western and Southern Europe and East Asian countries. He mentioned several themes which are at the center of Kellogg research: the process of democratization, the emergence of party systems, and the role of labor movements, religion and political issues. Research is conducted by a "moving constituency" of University faculty from several departments, who may be appointed departmental fellows by the provost.

Prof. O'Meara noted that paragraph I.B of the proposed constitution outlines a reporting arrangement which is unlike that observed by academic departments: Rather

than reporting to a dean, the University institutes report directly to the provost.

Prof. Bonello commented that it might be appropriate to mention in the constitution that its research and outreach efforts make Kellogg a particularly important institute for a Catholic university.

Regarding Section II of the proposed constitution, Prof. Pilkinton questioned the advisability of including both an executive director and an academic director — not to mention a separate director of the Latin American Area Studies Program (LAASP) — in the leadership structure of the Kellogg Institute. He wondered how such an apparent diffusion of leadership could work. Prof. O'Donnell responded that thus far the division of labor between the executive and academic directors has precluded problems. Any disagreement which might arise, he added, would be submitted to the provost for decision in accordance with paragraph II.E.

Mr. Poole commented that a structure with two directors is common to institutes and centers at universities throughout the country. Fr. Burrell offered that such a structure frees the academic director of much of the administrative burden, which so often detracts from his primary mission, and therefore makes the academic position more attractive. He added that the draft constitution does specify the division of labor between the two positions.

Granting that the present executive and academic directors of the Kellogg Institute have an effective working relationship, Fr. Malloy still wondered whether the relationship and responsibilities of these two positions are sufficiently clear for those who may assume these roles in the future. In particular, the issue of authority in specific areas could become problematic should disagreement over priorities of the institute arise. Prof. Borelli and Mr. Zeugner agreed that the issue of authority is not effectively answered by the document. Dean Kolman observed that the discussion shows the difference between having a structure which seems to work now and perpetuating it in writing for the future.

Concerning the LAASP, Prof. Attridge stated that while this area studies program is closely involved with the Kellogg Institute, it remains a program of the College of Arts and Letters. By having the appointment of the LAASP director originate with an institute recommendation and then requiring college approval, as now stated in the constitution, the relationship of the two units in this regard is established clearly. Prof. Roos added that the relationship benefits the undergraduate students by providing them access to and interaction with the resources of institutes.

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Prof. O'Meara questioned the stipulation in paragraph II.A that any search committee formed in response to a vacancy in either of the director positions should include two representatives from outside the University. Prof. O'Donnell said that he did not have strong feelings either way on this issue.

Prof. O'Meara began discussion of Section IV on Departmental Fellows by explaining that the *Fellows* of the institute would be members of the Special Research Faculty and therefore would be appointed in accordance with the Academic Articles. Departmental fellows would be members of the faculty in an academic department that approves their appointment. Fr. Burrell emphasized the significant role of the departmental fellows in linking Kellogg with the ongoing life of the University. Prof. O'Donnell stated that departmental fellows would most likely not become permanent members of the institute, but would tend instead to move in and out as their research focus and the focus of the institute shifted to different areas and themes.

Fr. Burrell observed that the draft constitution makes no mention of postdoctoral fellows and of the importance of their role in developing relationships between the institute and promising young academics around the world. Prof. O'Donnell replied that the institute has a *Residential Fellows* program which brings both junior and senior scholars to Notre Dame to participate in research projects and publications. Financial assistance to junior scholars in particular has been effective in developing active and continuing relationships within the international academic community. He added that residential fellows come to the institute from outside the University for a short time to work on a project. If they are here for longer than a semester, they may teach a course subject to approval by the appropriate academic department and dean.

Responding to a question from Fr. Malloy, Prof. O'Donnell said that unlike departmental fellows, residential fellows are guaranteed office space in the Hesburgh Center. Fr. Burrell felt that this guarantee is not only consonant with the international mission and character of Kellogg, but it also catalyzes and fosters the work of the institute. He argued that the role of residential fellows is sufficiently significant to be included in the institute charter.

Discussion followed concerning the procedures for appointment of residential fellows and the absence of such procedures in the Kellogg document. Prof. Castellino supported the concept of residential fellows, but expressed concern that the procedures followed by Kellogg permitted such appointments to be made without a joint appointment in an academic department. Dean Attridge and Prof. Roos confirmed that unless the residential fel-

low is assigned teaching responsibilities, this is in fact the case. Dean Castellino pointed out that this is not only in conflict with the Academic Articles, but that a different standard has been enforced elsewhere — for example in the appointment of fellows in the Radiation Laboratory. Agreeing that the procedures must be clarified, Prof. O'Meara referred this issue to the Executive Committee for resolution.

Moving to Section V of the draft constitution, Prof. O'Meara inquired into the purpose of the Faculty Committee. Prof. O'Donnell responded that it constitutes a representative cross-section of the fellows of the institute, and that its small size facilitates discussion as well as communication with academic departments.

To conclude the discussion, Prof. O'Meara said that the draft constitution would be referred to the Executive Committee for further review and revision and brought back to the council for approval.

**b. The Joan B. Kroc Institute for International Peace Studies.** (A copy of the draft constitution is in Attachment B.) Prof. Väyrynen described the core of the Kroc Institute as very small, consisting of a director, two half-time faculty fellows and five visiting fellows. This core is augmented by 28 affiliated faculty fellows from other units of the University. The activities of the Kroc Institute are focused in three areas: undergraduate and graduate teaching, research and outreach activities.

The approximately 100 undergraduates and 25 to 30 graduate students associated with Kroc each year, he said, strain the institute's teaching capability and are matters that need attention. Nearly half of the graduate students are international, a fact which serves to augment the academic program with an experiment of sorts in cross-cultural living.

Prof. Väyrynen continued that the Kroc Institute's research efforts must be expanded within the framework of a multidisciplinary and coherent research policy. Research has centered on the efficiency with which current international institutions are able to cope with peace and security issues, on the issue of nuclear weapons nonproliferation and cooperative security, and on the study of transnational and international social movements, development and the use of force.

The variety of outreach activities pursued by the institute include both programs for the local community and conferences which involve a wider audience.

Fr. Burrell asked whether the concern about religion and politics in a world in which Marxist hegemony has collapsed is a subject of importance for the Kroc Institute.

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Prof. Väyrynen responded that this concern is reflected in the institute's statement of purpose.

Discussion followed concerning Section II on the administration of the institute and the role and definition of faculty fellows in the draft constitution. Prof. O'Meara commented that the institute's constitution must give a definition of faculty fellows and a description of appointment procedures that are consistent with those set forth in the Academic Articles.

Prof. Väyrynen said that the teaching load in the undergraduate concentration in peace studies and the graduate program makes the involvement of the Kroc Institute fellows extremely important. He identified three types of fellows with the Kroc Institute. As currently designated, these are: the faculty fellows described above, associate faculty fellows who are members of other University institutes and programs, and visiting fellows. In response to a question from Fr. Beauchamp and Prof. Bonello, he said that only the faculty fellows vote to elect members of the Institute Search Committee. Prof. Schmitz pointed out that the term "associate faculty fellows" as used by the institute causes confusion because that term is already used in a different sense in the description of the special research faculty in the Academic Articles. Prof. O'Meara agreed, noting also that the Executive Committee must consider how to bring the appointment of visiting faculty fellows into conformance with the articles when those individuals may be in residence for periods of no more than a few weeks.

Prof. Pilkinton questioned why the draft charter includes no mention of a dean in the procedures for appointment of the director of the Undergraduate Concentration in Peace Studies. Dean Attridge said that a document exists within the College of Arts and Letters which establishes a committee under jurisdiction of the College Council to approve concentrations in specific fields of study. Prof. Weigert added that the concentration in peace studies was the first such program to go through that approval process.

Moving to Section VII on the Advisory Board, Fr. Malloy noted that both financial and time constraints, as well as the key international positions occupied by its members, have made possible only one meeting of the Advisory Board since its inception. He suggested that the institute might want to give further consideration to the membership of this board in light of the inability of its current members to become involved actively in advising the institute.

Prof. O'Meara noted that Section VIII on amendments must be changed to reflect that the Academic Council rather than the provost is to be the approving authority for amendments. This and other changes discussed previ-

ously, he said, would be taken up by the Executive Committee, and a revised constitution would be returned for approval by the council.

**c. The Medieval Institute.** (A copy of the draft constitution is in Attachment C.) Prof. Gersh described the purpose of the Medieval Institute as interdisciplinary study of medieval culture and civilization. The rationale for an interdisciplinary approach, he said, is based on the multidisciplinary effect of religion, philosophy and literature on medieval culture. The institute is staffed by a director, two members of the teaching and research faculty, two members of the special professional faculty and a librarian. As a graduate program offering the Master of Medieval Studies and Ph.D. in Medieval Studies, the institute maintains approximately six or seven students in each of the graduate years. A small undergraduate program has also been offered in recent years. Research, an important activity of the Medieval Institute, is served and fostered by library holdings, a microfilm collection, a publication series and conferences.

Concerning Section II on the administration of the institute, Prof. O'Meara pointed out that the director of the Medieval Institute has an ongoing appointment, with a review at five-year intervals, rather than the specified term associated with the directorships of the Kellogg and Kroc Institutes. Prof. Pilkinton noted the involvement of the dean of arts and letters in the reporting structure for the Medieval Institute. Prof. O'Meara responded that this structure was considered appropriate because of the strong arts and letters orientation of the institute.

Prof. O'Meara pointed out also the two-tiered structure which exists in the body of the Medieval Institute to differentiate between members and fellows. He noted that the draft constitution correctly requires appointment procedures for faculty fellows as prescribed by the Academic Articles.

Regarding Section G on the library, Mr. Zeugner suggested a change in language to reflect that the Library Committee of the institute actually oversees the development of collections rather than acquisitions per se.

Fr. Malloy asked whether the term "fellow" was considered gender neutral, or whether a more inclusive term should be sought. Prof. O'Meara said that the University of Notre Dame-Australia had refused to use the word "fellow" because it was considered gender exclusive. Since none of the council members could immediately call to mind an equivalent term or cite examples from other places, Prof. O'Meara asked that Dean Attridge look into the matter further and advise the Executive Committee.

**5. Reports by standing committees.** Prof. Roos reported that the Graduate Affairs Subcommittee of the



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Graduate Studies Committee met with Prof. Hatch and will meet with Dean Keane to discuss the possible expansion of graduate programs in the College of Business Administration. The subcommittee also met with Dean Attridge concerning teaching appointments for graduate students, and is in the process of developing a questionnaire for department chairs and deans to gather information about their practices and problems in this area.

Prof. Atassi said that the Faculty Affairs Committee is still working to define topics for this year's agenda.

Prof. Bonello said that now having completed a survey of the deans, the Undergraduate Studies Committee is currently surveying department chairs in the College of Arts and Letters to gather input on the likely impact of the stronger and weaker versions of the committee's preliminary proposal to enhance research in the undergraduate curriculum. He continued that the committee is still working to formalize the proposal for the Teaching Center so that it can be presented to the Executive Committee for discussion and inclusion on the council agenda.

Fr. Malloy announced that elections have been completed and letters of invitation to serve on the four post-Colloquy committees have been mailed. Further, he stated that letters of invitation to serve on the committee for architecture and fine arts will be sent shortly.

There being no further business, the council adjourned at 4:53 p.m.

Respectfully submitted,

Roger A. Schmitz  
Secretary of the Academic Council

## Attachment A

Helen Kellogg Institute for International Studies  
DRAFT CONSTITUTION

### I. General Clauses

A. The HKI is a pluridisciplinary, non-degree granting institute for international research, education and outreach of the University of Notre Dame. The HKI focuses on a series of thematic areas — related to issues of democracy and development — that are revised periodically. Those thematic areas are deemed to be significant in the context of Latin American and Inter-American affairs, but the HKI does not have an exclusive focus on those regions.

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

### II. Direction of the Institute

A. The Executive and Academic Directors of the HKI are appointed by the President. Their term of appointment is five years, renewable. Approximately six months before the end of that term, the Executive Director and the Academic Director are reviewed by a Committee of three faculty members, chosen by the Provost from among the Departmental Fellows of the HKI. The Executive Director and/or the Academic Director can request the addition of two non-Notre Dame faculty members to this Committee, who will be appointed to it in agreement with the Provost. In the event of a vacancy in either directorship a Search Committee of five members shall be constituted and chaired by the Provost, who shall choose three of its members from the membership of the Faculty Committee of the Institute and two from outside the University.

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

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

D. The Director of the Latin American Area Studies Program is appointed by the Dean of the College of Arts and Letters upon recommendation from the Institute. The term of the Director of LAASP is three years, renewable.

E. In case of overlap of responsibilities, the Executive Director and the Academic Director will have joint responsibility. In case of disagreement between the Executive Director and the Academic Director, whether on the substance of a given decision on an overlapping issue or on the overlapping character of a given issue, the matter will be submitted to the decision of the Provost.

### III. The Steering Committee

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



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

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

## IV. The Departmental Fellows

A. Departmental Fellows are Notre Dame teaching and research faculty members whose academic work is deemed directly relevant to the activities and priorities of the Institute. Upon the recommendation of the Academic Director, in consultation with the Faculty Committee of the Institute, Departmental Fellows are appointed by the Provost in accordance with the provisions of the Faculty Manual, esp. Article III, Section 4. Departmental Fellows are appointed for a term of five years, renewable. Faculty members who feel their work is directly relevant to the activities and priorities of the Institute will be eligible for an invitation to become Departmental Fellows of the Institute.

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

## V. The Faculty Committee

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

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

C. The Faculty Committee may advise the Executive Director and/or the Academic Director on procedures deemed adequate for better processing the activities mentioned in the preceding paragraph.

D. Normally the Faculty Committee meets once a month during the academic year. It is chaired by the Academic Director, who may establish whatever subcommittees are deemed useful.

## VI. The Advisory Council

A. The Advisory Council of the Institute is composed of distinguished persons outside the University. The Advisory Council advises the President, the Provost and the Institute on matters of overall policy, orientation, personnel, and development of the Institute. The Advisory Council has no fewer than ten and no more than twenty members. They are appointed by the Chair of the Advisory Council with the approval of the President, for a renewable term that extends over three meetings of the Advisory Council. Terms shall be staggered so that approximately one-third of the terms expire after each meeting of the Advisory Council.

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

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

## VII. Amendment of this Constitution

A. Amendment to this constitution will be proposed by the Academic Director and the Executive Director, upon consultation with the Faculty Committee of the Institute, to the Provost for approval by the Academic Council. In case of disagreement between the Academic Director and Executive Director, paragraph IIE of this constitution will be applicable.

## Attachment B

The Joan B. Kroc Institute for International Peace Studies  
DRAFT CONSTITUTION

### I. Kroc Institute Purpose

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

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B. The Kroc Institute programs involve those University faculty designated as Faculty Fellows, Visiting Fellows, Associate Fellows, Kroc Institute graduate students, undergraduate students in the Concentration in Peace Studies and other faculty and students from University Departments. As a University Institute of research and teaching, the Kroc Institute expects its programs to reflect and its participants to maintain the highest standards of academic rigor in their work and to operate with the highest standards of academic freedom.

## II. Administration of the Institute

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

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

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

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

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

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

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

F. The director of the Graduate program of the Institute serves as the chief administrator of the graduate admissions process and of the graduate program of the Institute. As such the director develops and coordinates with the Graduate School of the University and the relevant graduate departments the procedures and requirements necessary for completion of the M.A. degree in peace studies, for joint degree programs and for completion of areas of emphases in peace studies within Ph.D. departments. The director solicits, approves and coordinates course offerings which will be cross-listed as Institute courses relevant to the graduate degree. The director chairs the Graduate Admissions Committee and the Graduate Advisory Committee of the Institute.

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

## III. The Executive Committee

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

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

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

## IV. Committees of the Institute

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

# DOCUMENTATION

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

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

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

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

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

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

H. The Publications Committee coordinates the publications of the Institute. It administers the Occasional Papers, Conference Papers, Reprints and Working Papers series of the Institute; coordinates the production of the Re-

port, a semi-annual account of Institute activities and research projects; and, advises the Director on the production of such materials, as annual reports and brochures, as may be necessary for the functioning of the Institute.

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

## V. The Faculty Fellows

A. Faculty Fellows of the Kroc Institute are faculty members whose teaching and research work relates directly to the substantive activities and priorities of the Institute as specified in section I. A. Fellows are appointed by the Provost upon the recommendation of the Director. Nominations of faculty as candidates for Faculty Fellow status will be made to the Executive Committee of the Institute in the spring of each academic year. The Executive Committee will serve in an advisory capacity to the Regan Director in recommending Fellows to the Provost.

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

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

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

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

## VI. Visiting Fellows

A. The Institute sponsors a Visiting Fellows program which brings to the Institute distinguished scholars and leaders in peace studies, public affairs, the religious, education and scientific community. Visiting Fellows are invited to the Institute based on a competitive application

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process administered by the Regan Director in consultation with the Executive and Research Committees of the Institute.

B. Visiting Fellows shall be appointed for specified terms and designated as Visiting Fellows or as Visiting Scholars, in accordance with University guidelines for each.

## VII. The Advisory Board

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

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

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

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

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

## VIII. Amendments

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

## Attachment C

The Medieval Institute  
DRAFT CONSTITUTION

### I. Statement of Purpose

The Medieval Institute at the University of Notre Dame, founded in 1947, exists to promote all aspects of medieval studies within the university community, to provide superlative programs for undergraduate students, to maintain and expand its central commitment to educa-

tion at the graduate level (Master of Medieval Studies, Ph.D. in Medieval Studies), to support the work of its medieval scholars, faculty and students alike, through its library and microfilm holdings, and to utilize all feasible means to enrich its general contribution to medieval scholarship.

The Medieval Institute aims to break through the intellectual constraints of institutionalized disciplines. It attempts to encompass every aspect of Medieval Studies, welcoming specialties and methodologies of all kinds, while retaining special strength in the areas of medieval thought, religion, and culture.

## II. Administration of the Institute

### A. The Director

1. The director shall be appointed by the president of the University, on recommendations made by the provost of the university and the dean of the College of Arts and Letters. When a director resigns or retires, the dean shall appoint a committee of five persons, at least three of whom are Fellows of the Institute, who are to conduct the search. The dean will chair the committee, which is to make recommendations to the provost and the president of the university.

2. The director of the Institute reports to the provost through the dean of the College of Arts and Letters.

3. The director of the Institute shall have full responsibility for all its programs, budgets, and staff appointments, subject to the normal approval of dean and provost. The director shall appoint faculty members to serve on the Institute's various committees, after consulting with them about their interests.

4. The director's performance is to be reviewed every five years. The dean of the College of Arts and Letters shall appoint a committee consisting of three Fellows to conduct the review and report to the dean.

### B. Members of the Institute

1. Members consist of faculty members whose teaching and research activities pertain to the work of the Institute.

2. Members have full access to the Institute's library and microfilm holdings, can participate fully in its programs, may serve on its committees, and are eligible to elect the Institute's Advisory Board from among the Fellows.

3. Members shall be assembled at least once each year to discuss the Institute's activities and plans.

# DOCUMENTATION

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4. Members are appointed by the dean of the College of Arts and Letters on recommendation of the director and the Advisory Board.

## C. Fellows of the Institute

1. Fellows consist of tenured faculty of the University who are members of the Institute, whose teaching and research activities pertain to the work of the Institute. Their status is equivalent to that of the Full Faculty Fellow (*Faculty Handbook*, III.3.b).

2. Fellows are nominated by the Institute's existing Body of Fellows and appointed for five-year terms by the president, on the recommendation of the provost, the College dean, the director of the Institute, and the chairperson of the department in which he or she is tenured.

3. The specific terms of a fellow's appointment to this special research faculty category are to be determined by the director, the chairperson of the faculty member's home department, and the dean, and are to be stipulated by the provost.

4. The Fellows are to gather at least once each semester to discuss future planning and present programs within the Institute. Only Fellows are eligible for election to the Advisory Board, and for appointment to search or review committees.

## D. The Advisory Board

1. The Advisory Board consists of five Fellows elected annually by the members.

2. The director is to summon the Advisory Board at least once each semester to review the Institute's programs and future plans.

3. The Advisory Board can serve, if necessary, as an appointments and promotion committee.

## E. Graduate Studies

1. The director of the Institute is responsible for overseeing and implementing graduate studies, in conjunction with recommendations made by the Graduate Studies Committee.

2. The Graduate Studies Committee is constituted of at least four members appointed annually by the director.

3. The director and the committee are to establish and to follow the "Guidelines for Graduate Study."

4. A committee of three graduate students will be elected annually to represent student concerns to the Committee, and may be invited to attend appropriate committee meetings.

## F. Undergraduate Studies

1. The director of the Institute shall appoint a director of undergraduate studies, who will report annually on his or her activities to the Institute's director.

2. The director of undergraduate studies will be responsible for the undergraduate curricula and for such support organizations as the Medieval Club.

## G. The Library

1. The Library Committee will consist of the director of the Institute, the librarian, the bibliographer, and at least three other members appointed by the director.

2. The Library Committee will oversee acquisitions in conjunction with the bibliographer and make library policy in conjunction with the librarian.

## H. Publications

1. The Publications Committee will consist of the director of the Institute, the administrative assistant (who will normally chair the committee), and at least three other members appointed annually by the director.

2. The Publications Committee will oversee all the Institute's publication series and will make recommendations for publication to the Board of Notre Dame Press.

## I. The Ambrosiana Microfilm Collection

1. The curator of the Ambrosiana Microfilm collection will be appointed by the director of the Institute and the director of the Hesburgh Library.

2. The curator will have responsibility for overseeing, publicizing, and preserving the microfilm collection, and will report annually to the two directors.

## III. Amendments

Amendments to this Constitution may be proposed to the Fellows by any member of the Institute. An amendment becomes effective with the approval of a two-thirds vote of the Fellows and the approval of the Provost.

# THE GRADUATE SCHOOL OFFICE OF RESEARCH

## Current Publications and Other Scholarly Works

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

### COLLEGE OF ARTS AND LETTERS

#### American Studies

- Schmuhl, Robert P.  
R.P. Schmuhl. 1994. Introduction to the Transaction Edition. Pages 9-17 in, *Tocqueville and American Civilization*, by M. Lerner. Transaction Publishers, New Brunswick, New Jersey.  
R.P. Schmuhl. 1993. Mass Media. *Notre Dame Magazine* 22(2):80.  
R.P. Schmuhl. 1993. NAFTA Offers Plenty of Crossed Signals. *Chicago Tribune* 147(318):1+7, Perspective Section.  
R.P. Schmuhl. 1993. Word at the Polls: Keep the Change. *Chicago Tribune* 147(308):13, Section 1.  
R.P. Schmuhl. 1993. Who Won the Debate? Television. *Philadelphia Inquirer* 328(134):27, Section A.

#### Anthropology

- DaMatta, Roberto A.  
R.A. DaMatta. 1993. Diplomacia e Antropologia (Diplomacy and Anthropology). *ADB Boletim da Associacao dos Diplomatas Brasileiros* 1(6):1-2.  
Press, Irwin  
I. Press and M.P. Malone. 1993. Patent Satisfaction and the Cost/Quality Equation. *Journal of Health Care Benefits* 3(2):40-43.

#### Art, Art History and Design

- Brogden, Sally B.  
S.B. Brogden. 1993. Ceramic Sculptures in group show - invitational exhibit. Pewabic Pottery, Detroit, Michigan.

#### Economics

- Dutt, Amitava K.  
A.K. Dutt. 1993. Review of Reconstructing Keynesian Economics, by R. Marris. *Review of Social Economy* 51(3):393-396.  
A.K. Dutt and K.Y. Lee. 1993. The Service Sector and Economic Growth: Some Cross-Section Evidence. *International Review of Applied Economics* 7(3):311-329.

#### English

- Brogan, Jacqueline V.  
J.V. Brogan. 1993. Poem: Damage. *Spring: Journal of E.E. Cummings Society* 2(October):79.  
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O'Rourke, William A.  
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W.A. O'Rourke. 1993. Signs of the Literary Times: Essays, Reviews, Profiles 1970-1992. State University of New York Press, Albany, New York. xviii + 250 pp.  
Werge, Thomas A.  
T.A. Werge. 1993. Samuel Clemens. (Special Issue on Responses to the Gettysburg Address) *Iowa Journal of Communication* 25:109-112.

#### Government and International Studies

- Johansen, Robert C.  
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R.C. Johansen. 1993. Military Policies and the State System as Impediments to Democracy. Pages 213-234 in, D. Held, ed., *Prospects for Democracy*. Polity Press, Cambridge, United Kingdom.  
Mainwaring, Scott P.  
S.P. Mainwaring and M. Shugart. 1993. Juan Linz, Presidencialismo e Democracia. *Novos Estudos CEBRAP* (37):191-213.  
Väyrynen, Raimo  
R. Väyrynen. 1993. Finland on the Way to the European Community. Pages 64-78 in, T. Tiilikainen and I.D. Petersen, eds., *The Nordic Countries and the European Community*. Copenhagen Political Studies Press: Copenhagen.

#### Program of Liberal Studies

- Weinfield, Henry  
H. Weinfield. 1993. Fragment of an Imaginary Dialogue with Michael Heller on In the Builded Place. *Talisman: A Journal of Contemporary Poetry and Poetics* 11:110-112.  
H. Weinfield. 1993. Funereal Toast (translation from Mallarmé). *Pequod* 36:30-31.  
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## Sociology

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## Theology

Ford, J. Massyngbaerde

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LaCugna, Catherine M.

C.M. LaCugna. 1993. Freeing Theology: Essentials of Theology in Feminist Perspective. Harper Collins, San Francisco, California. 266 pp.

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C.M. LaCugna. 1993. Interview with Catherine Mowry LaCugna. *U.S. Catholic* (November):6-12.

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### Biological Sciences

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S.H. Berlocher, B.A. McPheron, J.L. Feder and G.L. Bush. 1993. Genetic Differentiation at Allozyme Loci in the Rhagoletis Pomonella (Diptera: Tephritidae) Species Complex. *Annals of the Entomological Society of America* 86(6):716-727.

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Miller, Marvin J.

M.J. Miller and F. Malouin. 1993. Siderophore-Mediated Drug Delivery: The Design, Synthesis, and Study of Siderophore-Antibiotic and Antifungal Conjugates (Chapter 13). Pages 275-306 in, R.J. Bergeron and G.M. Brittenham, eds., *The Development of Iron Chelators for Clinical Use*. CRC Press, Boca Raton, Florida.

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Kang, Seok-Jin

S.-J. Kang. 1993. Root Multiplicities of the Hyperbolic Kac-Moody Lie Algebra  $HA(1)_1$ . *Journal of Algebra* 160(2):492-523.

Kronstein, Karl M.

K.M. Kronstein and M.S. Mazur. 1993. 2-Adic Groups and Character Formulas. *Journal of Algebra* 161:541-543.



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Yin, Hong-Ming

- H.-M. Yin. 1993. Blowup and Global Existence for a Non-Equilibrium Phase Change Process. *The IMA Volumes in Mathematics and its Application: Variational and Free Boundary Problems* 53:195-204.
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### Aerospace and Mechanical Engineering

Gad-el-Hak, Mohamed

- M. Gad-el-Hak. 1993. Interactive Control of Turbulent Boundary Layers: a Futuristic View. Pages 35-108 in, P.R. Bandyopadhyay, ed., *Proceedings of the NUWC Division Newport Seminar Series on Microfabrication and Turbulence*. Naval Undersea Warfare Center, Newport, Rhode Island.
- M. Gad-el-Hak. 1993. Review of The Universal Man, Theodore von Kármán's Life in Aeronautics. *AIAA Journal* 31(12):2385-2387.
- M. Gad-el-Hak and P.R. Bandyopadhyay. 1993. Reynolds Number Effects in Wall-Bounded Turbulent Flows. *Bulletin of the American Physical Society* 38(11):2217.

- See under Sen, Mihir. 1993. *Bulletin of the American Physical Society* 38(11):2263-2264.

Huang, Nai-Chien

- N.-C. Huang. 1993. Equipomental System of Rigidly Connected Equal Particles. *Journal of Guidance, Control and Dynamics* 16(6):1194-1196.

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- S. Paolucci and S.A. Suslov. 1993. Stability of the Natural Convection Flow in a Tall Vertical Cavity in the Conduction Regime under Non-Boussinesq Conditions. *Bulletin of the American Physical Society* 38(12):2240.

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- T.G. Zaki, M. Sen and M. Gad-el-Hak. 1993. Numerical and Experimental Investigation of Flow Past a Freely Rotatable Square Cylinder. *Bulletin of the American Physical Society* 38(11):2263-2264.

### Civil Engineering and Geological Sciences

Kareem, Ahsan

- Y. Li and A. Kareem. 1993. Multi-Variate Hermite Expansion of Hydrodynamic Drag Loads. *Journal of Engineering Mechanics, American Society of Civil Engineers* 119(1):91-112.
- A. Kareem. 1993. Preparing for Global Warming. *Civil Engineering* 63(3):6.
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Sha, Edwin Hsing-Mean

- E. H.-M. Sha and K. Steiglitz. 1993. Reconfigurability and Reliability of Systolic/Wavefront Arrays. *IEEE Transactions on Computers* 42(7):854-862.
- L.-F. Chao, E. H.-M. Sha and A. LaPaugh. 1993. Rotation Scheduling: A Loop Pipelining Algorithm. Pages 566-572 in, *Proceedings of the 30th ACM/IEEE Design Automation Conference*. Dallas, Texas.
- L.-F. Chao and E. H.-M. Sha. 1993. Unified Static Scheduling on Various Models. Pages 231-235 in, *Proceedings of the 1993 International Conference on Parallel Processing*. St. Charles, Illinois.

### Electrical Engineering

Antsaklis, Panos J.

- P.J. Antsaklis and K.M. Passino, eds. 1993. *An Introduction to Intelligent and Autonomous Control*. Kluwer Academic Publishers. 448 pp.
- P.J. Antsaklis. 1993. Control Theory Approach: Neural Networks for the Intelligent Control of High Autonomy Systems. Pages 1-23 in, J.G. Taylor, ed., *Mathematical Approaches to Neural Networks*. Elsevier.
- M.D. Lemmon, J.A. Stiver and P.J. Antsaklis. Event Identification and Intelligent Hybrid Control, Hybrid Systems. Pages 269-296 in, R.L. Grossman, A. Nerode, A.P. Ravn and H. Rischel, eds., *Lecture Notes in Computer Science, LNCS 736*. Springer-Verlag.

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P.J. Antsaklis and Z. Gao. On Polynomial and Rational Matrix Interpolation. IEEE Mediterranean Symposium on New Directions in Control Theory and Applications, Chania, Crete, Greece.

Sain, Michael K.

C.B. Schrader and M.K. Sain. 1993. Generalized System Poles and Zeros: The Generic and Global Connection. Pages 2866-2871 in, *Proceedings IEEE Conference on Decision and Control*. IEEE, New York, New York.

## COLLEGE OF BUSINESS ADMINISTRATION

### Management

Houck, John W.

See under Williams, Oliver F., eds. 1993. Catholic Social Thought and the New World Order: Building on One Hundred Years.

See under Williams, Oliver F., eds. 1992. A Virtuous Life in Business: Stories of Courage and Integrity in the Corporate World.

Williams, Oliver F., CSC

O.F. Williams, CSC and J.W. Houck, eds. 1993. Catholic Social Thought and the New World Order: Building on One Hundred Years. University of Notre Dame Press, Notre Dame, Indiana. 383 pp.

O.F. Williams, CSC and J.W. Houck, eds. 1992. A Virtuous Life in Business: Stories of Courage and Integrity in the Corporate World. Rowman & Littlefield, Lanham, Massachusetts. 185 pp.

## LAW SCHOOL

Barrett, Matthew J.

M.J. Barrett. 1993. Does SEC Rule 10b-5 Provide an Implied Private Right of Action for Aiding and Abetting Securities Fraud? *Preview of United States Supreme Court Cases 1993-94 Term* (3):109-112.

## RADIATION LABORATORY

Bobrowski, Krzysztof

B. Marciniak, K. Bobrowski and G.L. Hug. 1993. Quenching of Triplet States of Aromatic Ketones by Sulfur-Containing Amino Acids in Solution. Evidence for Electron Transfer. *Journal of Physical Chemistry* 97(46):11937-11943.

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G.J. Ferraudi. 1993. Magnetic Field Effects in Rates of Reactions between Radicals and Transition Metal Coordination Complexes of Co(II) and Mn(II): Probes for Spin Polarization. *Journal of Physical Chemistry* 97(46):11929-11936.

Hug, Gordon L.

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Kamat, Prashant V.

P.V. Kamat and K. Vinodgopal. 1993.  $\text{TiO}_2$  Mediated Photocatalysis Using Visible Light: Photosensitization Approach. Pages 83-94 in, D.F. Ollis and H. Al-Ekabi, eds., *Photocatalytic Purification and Treatment of Water and Air*. Elsevier Science Publishers B.V.

## SCHOOL OF ARCHITECTURE

Stamper, John W.

J.W. Stamper and R. Mark. 1993. Structure of the Galerie des Machines, Paris, 1989. *History and Technology* 10:127-138.

# THE GRADUATE SCHOOL OFFICE OF RESEARCH

## Awards Received and Proposals Submitted

In the period October 1, 1993, through October 31, 1993

### AWARDS RECEIVED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	6	234,499	8	352,496	14	586,995
Facilities and Equipment	0	0	1	3,125	1	3,125
Instructional Programs	1	21,120	0	0	1	21,120
Service Programs	0	0	0	0	0	0
Other Programs	<u>0</u>	<u>0</u>	<u>4</u>	<u>49,656</u>	<u>4</u>	<u>49,656</u>
Total	7	255,619	13	405,277	20	660,896

### PROPOSALS SUBMITTED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	6	1,322,879	35	18,623,422	41	19,946,301
Facilities and Equipment	0	0	0	0	0	0
Instructional Programs	1	472,782	0	0	1	472,782
Service Programs	0	0	0	0	0	0
Other Programs	<u>1</u>	<u>1,376,979</u>	<u>3</u>	<u>20,833</u>	<u>4</u>	<u>1,397,812</u>
Total	8	3,172,640	38	18,644,255	46	21,816,895

# THE GRADUATE SCHOOL OFFICE OF RESEARCH

## Awards Received

In the period October 1, 1993, through October 31, 1993

### AWARDS FOR RESEARCH

#### Aerospace and Mechanical Engineering

Nelson, R., Jumper, E.  
Theoretical Study of Vortex Breakdown  
Department of the Air Force  
\$69,095 12 months

Nee, V.  
Vehicle Drag Reduction Project  
Fab-Glas Industries Inc.  
\$4,900

Lucey, J., Berry, W.  
Energy Analysis and Diagnostic Center Program  
Rutgers University  
\$59,885 6 months

#### Biological Sciences

Bender, H.  
Human Genetics Program – Regional Genetics Center  
Indiana State Department of Health  
\$61,375 12 months

#### Civil Engineering and Geological Sciences

Marley, J.  
GEM M.S. Engineering Fellows  
Graduate Education Minor  
\$7,500 24 months

#### Chemical Engineering

Chang, H.  
Nonlinear Dynamics and Control of Complex Patterns  
National Science Foundation  
\$59,957 36 months

#### Chemistry and Biochemistry

Szmuszkovicz, J.  
Unrestricted Research  
Upjohn Co.  
\$10,000 12 months

#### Electrical Engineering

McGinn, P.  
Processing of Textured Superconducting  
Microlaminates  
Purdue University  
\$31,824 12 months

Miller, A., Das, B., et al.  
Superconducting Quantum Structures  
Purdue University  
\$69,986 12 months

Michel, A., Bauer, P.  
Robust Stability of Nonlinear Discrete Systems  
National Research Council  
\$11,100 12 months

#### Physics

Livingston, A.  
Rydberg States in Multiply Charged Ions  
Department of Energy  
\$73,900 12 months

Ruchti, R., Wayne, M., et al.  
Scintillating Fiber Tracking  
Purdue University  
\$52,500 12 months

Bunker, B.  
Materials Research Collaborative Access Team (MRCAT)  
University of Florida  
\$25,000

#### Sociology

Chaves, M.  
Granting Full Clergy Rights to Women  
Louisville Institute  
\$49,973 20 months

### AWARDS FOR FACILITIES AND EQUIPMENT

#### Electrical Engineering

Stevenson, R.,  
Image Processing Investigations  
Apple Computer Inc.  
\$3,125 60 months

### AWARDS FOR INSTRUCTIONAL PROGRAMS

#### Psychology

McCabe, S.  
Student Experiential Program with Homeless and Elderly  
Retirement Research Foundation  
\$21,120 12 months

### AWARDS FOR OTHER PROGRAMS

#### Financial Aid

Malloy, J.  
Indian Fellowship  
Department of Education  
\$21,760 12 months

# THE GRADUATE SCHOOL OFFICE OF RESEARCH

## Government and International Studies

Mainwaring, S.  
NAFSA Support for Graduate Student  
NAFSA/Association of International Educators  
\$11,258 10 months  
NAFSA Support for Graduate Student  
NAFSA/Association of International Educators  
\$11,258 10 months

## Philosophy

MacIntyre, A.  
Conference on the Moral Philosophy of Alan Donagan  
Lilly Endowment, Inc.  
\$5,380 9 months

## Proposals Submitted

In the period October 1, 1993, through October 31, 1993

### PROPOSALS FOR RESEARCH

#### Aerospace and Mechanical Engineering

Stanisic, M.  
Kinematic Constraint of Redundant Manipulators  
National Science Foundation  
\$346,052 36 months  
Huang, N.  
Interfacial Fracture Mechanics  
National Science Foundation  
\$238,586 24 months  
Jumper, E.  
Turbulence-induced, Far-field Optical Degradation  
Department of the Air Force  
\$143,594 36 months

#### Biological Sciences

Fraser, M.  
Transposon Mutagenesis of Nuclear Polyhedrosis Viruses  
National Institutes of Health  
\$106,755 12 months  
Goetz, F.  
Molecular Analysis of Ovulatory Factors  
National Institutes of Health  
\$195,125 12 months  
Boyd, S.  
Sexual Dimorphism in Neuropeptide Systems  
National Institutes of Health  
\$185,687 36 months

## Civil Engineering and Geological Sciences

Kareem, A., Kantor, J.  
Hybrid Liquid Dampers  
National Science Foundation  
\$331,665 36 months  
Babic, M.  
Stability of Wall-Bounded Granular Flows  
National Science Foundation  
\$315,429 36 months  
Gaillard, J.  
ICPMS Analysis of the Pore Water Samples from GEOFAR  
National Science Foundation  
\$18,249 6 months  
Silliman, S., Babic, M.  
Particle Transport through Heterogeneous Media  
Department of Engineering  
\$148,071 12 months  
Kirkner, D.  
Response of Flexible Pavements: Student Research  
Support  
Department of the Army  
\$137,094 36 months  
Kareem, A.  
Reliability Analysis of Ocean Structures  
Department of the Navy  
\$155,617 36 months  
Makris, N.  
Modeling of Viscoelastic Dampers for Seismic Protection  
National Science Foundation  
\$327,220 36 months

#### Chemistry and Biochemistry

Miller, M.  
Drugs and Delivery Systems for Opportunistic Infections  
National Institutes of Health  
\$230,322 12 months  
Nowak, T.  
NMR Studies of Metals in Kinases and Related Enzymes  
National Institutes of Health  
\$458,881 12 months

#### Center for the Study of Contemporary Society

Dawson, G., Santos, J.  
Survey Funding for Geriatric Health Care Trainees  
Retirement Research Foundation  
\$32,798 12 months

# THE GRADUATE SCHOOL OFFICE OF RESEARCH

## Electrical Engineering

- Porod, W., Lent, C., et al.  
Coulomb Coupling between Quantum Dots and Waveguides  
Department of the Navy  
\$289,381 36 months
- Coulomb Coupling between Quantum Dots and Waveguides  
Advanced Research Projects Agency  
\$289,381 36 months
- Coulomb Effects in Resonantly Coupled Quantum Waveguides  
Department of the Air Force  
\$289,381 36 months
- Stevenson, R.  
Extraction of High-Resolutions Still Images  
Department of the Air Force  
\$61,275 12 months
- Bernstein, G., Subramaniam, S.  
Advanced Resonant Tunneling Diode Integrated Circuits  
Advanced Research Projects Agency  
\$1,223,336 36 months

## English

- Peters, E.  
Faculty Open Fellowships 1994-95  
Lilly Endowment, Inc.  
\$40,000 12 months
- Vasta, E.  
Dante's Vita nuova  
National Endowment for the Humanities  
\$257,565 12 months

## Government and International Studies

- Lopez, G.  
Faculty Open Fellowships 1994-95  
Lilly Endowment, Inc.  
\$40,000 10 months

## Graduate School

- Diffley, P.  
Fulbright-Hays Doctoral Dissertation Research  
Department of Education  
\$22,514 6 months

## Classical and Oriental Languages and Literatures

- Brownstein, M.  
Faculty Open Fellowships 1994-95  
Lilly Endowment, Inc.  
\$39,995 9 months

## Mathematics

- Wilczynski, D.  
Embedding and Isotopy Problems for Surfaces in Four Manifolds  
National Science Foundation  
\$131,630 36 months
- Kang, S.  
Lie Algebras, Quantum Groups, and Crystal Bases  
National Science Foundation  
\$182,721 36 months
- Migliore, J.  
Points in Uniform Position and ACM Curves  
National Security Agency  
\$70,425 24 months
- Uniform Position and Arithmetically Cohen-Macaulay Curves  
National Science Foundation  
\$210,914 36 months
- Migliore, J., Yu, J.  
The Jacobian Conjecture  
National Security Agency  
\$32,715 24 months
- Rosenthal, J.  
Algebraic Methods in Systems Theory  
National Science Foundation  
\$188,118 36 months
- Dyer, M.  
Coxeter Groups and Lie Theory  
National Science Foundation  
\$187,148 36 months
- Snow, D.  
Complex Homogeneous Spaces  
National Science Foundation  
\$168,538 36 months

## Music

- Higgins, P.  
Gender, Genius, and the Woman Composer-Fanny Mendelssohn  
National Endowment for the Humanities  
\$6,873 2 months

## Philosophy

- Shin, S.  
Heterogeneous Reasoning  
National Endowment for the Humanities  
\$4,750 2 months

# THE GRADUATE SCHOOL OFFICE OF RESEARCH

## Physics

Bunker, B.  
X-Ray Studies of Atomic Ordering in Alloys and Interfaces  
Department of the Navy  
\$303,637 36 months  
Advanced Synchrotron Radiation Materials Center  
National Science Foundation  
\$6,299,502 60 months  
Kolata, J., Wiescher, M., et al.  
Nuclear Structure Research  
National Science Foundation  
\$6,211,703 60 months  
Glazier, J.  
The Evolution and Rheology of Three Dimensional  
Foams  
ACS Petroleum Research Fund  
\$20,000 24 months

## Sociology

Aldous, J., Elston, T.  
Dissertation Improvement Program  
National Science Foundation  
\$3,654 3 months

## PROPOSALS FOR INSTRUCTIONAL PROGRAMS

### Center for Educational Opportunity

Blake-Smith, D., Smith, R.  
Upward Bound  
Department of Education  
\$472,782 12 months

## PROPOSALS FOR OTHER PROGRAMS

### Computer Science and Engineering

Lumsdaine, A.  
LS Initial Value Problems  
Supercomputer Center  
\$0 12 months

## English

Slabey, R.  
The United States and Vietnam: From War to Peace  
Indiana Humanities Council  
\$18,133 4 months

## University Libraries

Jordan, S.  
Medieval Institute Microfilming Project  
National Endowment for the Humanities  
\$1,376,979 36 months

## Physics

Cushing, J.  
Bose Institute Calcutta Travel  
National Science Foundation  
\$2,700 1 month



# THE GRADUATE SCHOOL OFFICE OF RESEARCH

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## Awards Received and Proposals Submitted

In the period November 1, 1993, through November 30, 1993

### AWARDS RECEIVED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	4	236,637	8	387,721	12	624,358
Facilities and Equipment	0	0	0	0	0	0
Instructional Programs	0	0	0	0	0	0
Service Programs	0	0	0	0	0	0
Other Programs	<u>1</u>	<u>10,675</u>	<u>2</u>	<u>38,538</u>	<u>3</u>	<u>49,213</u>
Total	5	247,312	10	426,259	15	673,571

### PROPOSALS SUBMITTED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	8	1,275,892	19	4,144,993	27	5,420,885
Facilities and Equipment	0	0	6	585,300	6	585,300
Instructional Programs	1	438,186	2	5,956,288	3	6,394,474
Service Programs	0	0	0	0	0	0
Other Programs	<u>0</u>	<u>0</u>	<u>1</u>	<u>122,322</u>	<u>1</u>	<u>122,322</u>
Total	9	1,714,078	28	10,808,903	37	12,522,981

# THE GRADUATE SCHOOL OFFICE OF RESEARCH

## Awards Received

In the period November 1, 1993, through November 30, 1993

### AWARDS FOR RESEARCH

#### Aerospace and Mechanical Engineering

Mueller, T.  
Experimental Inversion and Simulation Propeller Blade  
Department of the Navy  
\$18,777 15 months  
Batill, S.  
Time Domain Parameter Identification  
NASA - Ames Research Center  
\$36,517 24 months

#### Anthropology

Sheridan, S.  
Health and Nutrition in Ancient Nubia  
Wenner-Gren Foundation  
\$9,000 12 months

#### Biological Sciences

Kulpa, C.  
Investigations on TNT Biotransformation  
Argonne National Laboratory  
\$10,000 2 months  
Biodesulfurization of Petroleum Distillates  
Energy Biosys Corp.  
\$102,161 12 months

#### Chemical Engineering

McCready, M., Chang, H., et al.  
Study of Disturbances in Fluid-Fluid Flows  
NASA - Lewis Research Center  
\$100,000 12 months

#### Center for the Study of Contemporary Society

Dawson, G., Santos, J.  
Survey Funding for Geriatric Health Care Trainees  
Retirement Research Foundation  
\$24,476 12 months

#### Economics

Ghilarducci, T., Wolfson, M.  
The Pension Experience of Innovative Firms  
U.S. Department of Labor  
\$24,999 12 months

#### Electrical Engineering

Antsaklis, P., Lemmon, M.  
Intelligent Control and DES Identification  
National Science Foundation  
\$68,834 24 months  
Sauer, K.  
Model Based Tomography  
National Science Foundation  
\$97,094 12 months

#### Graduate School

Diffley, P.  
Graduate Research Fellowship Program  
National Science Foundation  
\$107,500 60 months

#### Physics

Bunker, B.  
Materials Research Collaborative Access Team (MRCAT)  
University of Florida  
\$25,000

### AWARDS FOR OTHER PROGRAMS

#### Center for Social Concerns

McClory, E.  
Indiana Consortium for Voluntary Service  
Commission on National Community Service  
\$26,526 12 months

#### Cushwa Center for the Study of American Catholicism

Dolan, J.  
Hispanic Catholics in 20th Century United States  
Lilly Endowment, Inc.  
\$10,675 12 months

#### Graduate School

Hatch, N.  
Pew Charitable Trusts  
Pew Charitable Trust  
\$12,012 13 months

# THE GRADUATE SCHOOL OFFICE OF RESEARCH

## Proposals Submitted

In the period November 1, 1993, through November 30, 1993

### PROPOSALS FOR RESEARCH

#### Aerospace and Mechanical Engineering

Schmid, S.  
Lubrication with Emulsions in Metal Forming  
American Society of Mechanical Engineers  
\$52,053 12 months

#### Anthropology

Schurr, M., Bellis, J.  
Geophysical Equipment for Archaeology  
National Science Foundation  
\$38,300 30 months

#### School of Architecture

Younes, S.  
Of Principles and Rules in Architecture  
Graham Foundation  
\$56,780 12 months

#### Biological Sciences

Johnson, A.  
Relationship of TGF/EGF, Gonadotropin Receptors (R)  
Department of Agriculture  
\$217,734 24 months

Saz, H.  
Intermediary Metabolism of Helminths  
National Institutes of Health  
\$230,079 12 months

Kulpa, C.  
Biodesulfurization of Petroleum Distillates  
Energy Biosys Corp.  
\$121,576 12 months

#### Civil Engineering and Geological Sciences

Gray, W.  
Parallel Algorithms for Surface Water and Transport  
Rice University  
\$197,101 36 months

Spencer, B.  
Supplement NSF Grant BCS 93-01584  
National Science Foundation  
\$48,213 12 months

#### Chemical Engineering

Strieder, W.  
Free Path Transport in Disordered Media  
National Science Foundation  
\$405,763 36 months

Hill, D.  
Flow in Polymer Melts and Liquid Crystals  
C. & H. Dreyfus Foundation, Inc.  
\$115,329 36 months

McCready, M.  
Disturbance Behavior in Gas-Liquid Flow  
Department of Energy  
\$326,972 36 months

Varma, A.  
FSU Infrastructural Supplement  
National Science Foundation  
\$5,000 12 months

#### Chemistry and Biochemistry

Lappin, A.  
Purchase of Graphics Workstations  
National Science Foundation  
\$119,940 24 months

Bumpus, J., Irvine, R.  
Regulation of Coal Degradation by Fungi  
Department of Energy  
\$312,122 36 months

#### Economics

Jarsulic, M.  
Business Cycles: Nonlinear Theory and Empirical Evidence  
Earhart Foundation  
\$99,565 9 months

#### Electrical Engineering

Bandyopadhyay, S., Das, B., et al.  
Extreme Quantum Confined Structures  
Department of the Army  
\$511,530 36 months

Lemmon, M.  
Presidential Faculty Fellows Award  
National Science Foundation  
\$500,000 60 months

Liu, R., Huang, Y.  
Blind Identification for Signal Separation  
W.J. Schafer Assoc., Inc.  
\$221,684 18 months

# THE GRADUATE SCHOOL OFFICE OF RESEARCH

## Mathematics

- Faybusovich, L.  
Dynamical Systems in Optimization  
National Science Foundation  
\$170,727 36 months
- Alber, M.  
Nonlinear Integrable Equations  
National Science Foundation  
\$173,127 36 months
- Hahn, A.  
Quadratic Forms and Algebras over Commutative Rings  
National Science Foundation  
\$208,438 36 months
- Hwang, J.  
Some Questions in Complex Geometry  
National Science Foundation  
\$167,982 36 months

## Philosophy

- Shin, S.  
Presidential Faculty Fellows Award  
National Science Foundation  
\$571,818 60 months

## Physics

- Cason, N., LoSecco, J., et al.  
Search for Unusual Mesons: A U.S.-Russian  
Collaboration  
National Science Foundation  
\$59,832 12 months
- Shephard, W., Cason, N., et al.  
Experimental Research in Elementary Particle Physics  
National Science Foundation  
\$421,306 12 months
- Johnson, W., Sapirstein, J.  
Weak Interactions in Atomic Physics  
National Science Foundation  
\$36,335 36 months
- Poirier, J.  
Research at Ultra High Energies  
National Science Foundation  
\$31,579 12 months

## PROPOSALS FOR FACILITIES AND EQUIPMENT

### Aerospace and Mechanical Engineering

- Renaud, J., Batill, S.  
CAD/CAM Instruction, Prototyping, and Metrology Lab  
National Science Foundation  
\$172,220 12 months

## Biological Sciences

- Martin, V.  
Confocal Laser Scanning Imaging System  
National Science Foundation  
\$200,000 36 months

## Civil Engineering and Geological Sciences

- Makris, N.  
Experimental Methods in Structural Engineering  
National Science Foundation  
\$60,000 30 months
- Halfman, J., Rigby, J.  
Alternative Energy for Environmental Geology and  
Civil Engineering  
National Science Foundation  
\$16,040 19 months

## Chemistry and Biochemistry

- Jacobs, D., Breen, N.  
Modern Laser Techniques  
National Science Foundation  
\$76,263 30 months

## Electrical Engineering

- Stevenson, R., Bauer, P.  
Real-Time Digital Signal Processing Laboratory  
National Science Foundation  
\$60,777 30 months

## PROPOSALS FOR INSTRUCTIONAL PROGRAMS

### Biological Sciences

- O'Tousa, J.  
Molecular Control of Cellular Processes  
National Science Foundation  
\$3,120,115 60 months
- Lamberti, G.  
Environmental Stress in Ecosystems  
National Science Foundation  
\$2,836,173 60 months

## Center for Bioengineering and Pollution Control

- Irvine, R.  
GAANNP Scholarships in Environmental Research  
Department of Education  
\$438,186 12 months

# THE GRADUATE SCHOOL OFFICE OF RESEARCH

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## PROPOSALS FOR OTHER PROGRAMS

### Kellogg Institute for International Studies

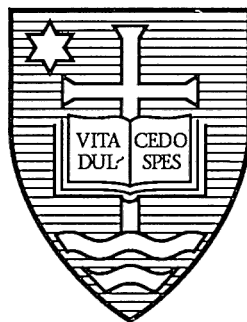
Ros, J.

Free Trade: A Road to Progress?

Indiana Humanities Council

\$122,322

7 months



# NOTRE DAME REPORT

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