



Notre Dame

R E P O R T

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1992-93

The University

N.D. Receives Award from International Communications Industries Association

Its new, high-tech classroom facility has made Notre Dame the first college or university to receive a major design award from the International Communications Industries Association (ICIA).

The University earned second-place honors in ICIA's annual Achievement Awards competition for the systems and facilities design of DeBartolo Hall, a \$22-million building featuring the latest in computer and audio/visual teaching tools.

In the seven years of the ICIA awards program, Notre Dame is the first university to be honored in a category other than educator of the year. A four-judge panel cited the "Interesting integration of technology" at DeBartolo in bestowing the award.

Letters from the Provost

Provost Timothy O'Meara, announces that letters to the faculty regarding promotion, tenure, renewal and salary notification will be mailed this academic year on Friday, April 30.

Faculty Notes

Honors

Leo M. Corbaci, associate professor emeritus of economics and in the Freshman Writing Program, and former dean of administration and university registrar, received the Rev. John Cardinal O'Hara Award for 1992 from the University of Notre Dame Alumni Association. The award reflects appreciation for exemplary services and dedication to the University as an administrator and faculty member.

Jeffrey C. Kantor, professor of chemical engineering, has been elected a trustee of the CACHE Corporation. CACHE is a not-for-profit consortium that promotes cooperation among universities, industry and government on the development of computer and technology-based aids for the chemical engineering profession.

Douglas W. Kmiec, professor of law, has been appointed to the national advisory board of the Rocky Mountain Land Use Institute, University of Denver. The institute engages in a variety of educational, service, and research activities and projects related to the public interest aspect of land use and development. He was named to the board of editors of the *Supreme Court Economic Review*.

Edward Manier, professor of philosophy and fellow in the Reilly Center for Science, Technology and Values, has been elected to a second four-year term as secretary of the Section for History and Philosophy of Science of the American Association for Science.

Rev. Ernan McMullin, O'Hara professor of philosophy, was chosen by the Society of Phi Beta Kappa as the Romanell Professor of Philosophy for 1993-94.

Alven Neiman, assistant dean and concurrent assistant professor of arts and letters, has been appointed to a four-year term as a member of the review board of *Educational Theory*.

James S. O'Rourke IV, associate professional specialist in business administration and director of the Notre Dame Center for Business Communication, has been appointed a member of the editorial review board of *The Bulletin of the Association for Business Communication*.

Donald E. Sporleder, professor of architecture, was elected chairman of the board of the Hoosier Rails-Trails Council, the Indiana Chapter of the Rails-to-Trails Conservancy. The HRTC is active in monitoring railway abandonment and planning/promoting linear greenspace and trail development in Indiana. Sporleder was appointed to the National Council of Architecture Registration Boards Building Design Grading Committee as a coordinator for the December 1992 Architects Registration Examination.

Activities

John H. Adams, assistant professor of biological sciences, chaired the symposium "Molecular Analysis of Invasion and the Apical Complex of *Plasmodium* and *Babesia*" and presented the opening introduction "What is the Apical Complex?" at the annual meeting of the American Society for Tropical Medicine and Hygiene held in Seattle, Wash., Nov. 16-19.

Panos Antsaklis, professor of electrical engineering, presented a paper titled "Modeling and Analysis of Hybrid Control Systems," chaired a session titled "Discrete Event and Hybrid Systems" and participated in meetings of the board of governors of the IEEE Control Systems Society at the 31st IEEE conference on Decision and Control in Tucson, Ariz, Dec. 16-18.

Gary H. Bernstein, assistant professor of electrical engineering, presented the talk "Nanostructure Fabrication by Electron Beam Lithography" at the Department of Electrical Engineering at Wayne State University, Detroit, Mich., Dec. 2.

Sunny K. Boyd, assistant professor of biological sciences, presented the paper titled "Gonadal Steroids Alter Vasotocin Receptor Concentrations in Amphibian Brains" at the annual meeting of the National Society for Neuroscience in Anaheim, Calif., Oct. 24-30.

Francis J. Castellino, dean of science and Kleiderer/Pezold professor of biochemistry, presented the lecture "The Domain Structures of Proteins Involved in Blood Clot Dissolution" and presented the annual undergraduate lecture titled "The Molecular Participants in Blood Coagulation and Clot Dissolution Reactions" at the University of Waterloo in Waterloo, Ontario, Canada, Nov. 10-11.

John Chateaneuf, associate professional specialist in the Radiation Laboratory, presented the paper "Spectroscopic Detection and Reactivity of the Chlorine Atom-Carbon Disulfide Molecular Complex" at the fifth inter-American Photochemical Society winter conference in Clearwater Beach, Fla., Jan. 3-6.

Daniel J. Costello Jr., chairman and professor of electrical engineering, co-authored a paper with Yannick Levy, Ph.D. student in electrical engineering, titled "An Algebraic Approach to Constructing Convolutional Codes from Quasi-Cyclic Codes" at the joint IEEE/DIMACS workshop on Coding and Quantization in Piscataway, N.J., Oct. 21.

George B. Craig Jr., Clark professor of biology, presented a paper titled "The Diaspora of *Aedes albopictus*" at the annual meeting of the Ohio Vector and Mosquito Control Association in Mentor, Ohio, Oct. 4-6. As the Indiana representative to this consortium, he presented a paper titled "Current

Faculty Notes

Status of the Asian Tiger Mosquito in the LaCrosse Belt" at the NCR-165, Insects and Human Health, regional research conference sponsored by 12 North Central States in Ames, Iowa, Nov. 2-3. He presented a paper titled "Just Another Japanese Import: *Aedes albopictus* in the USA" at the Illinois Mosquito and Vector Control Association in Rockford, Ill., Nov. 18-20.

James T. Cushing, professor of physics, chaired an invited session on the history of the Physics Department at the University of Chicago at its centennial celebration in Chicago, Ill., Dec. 1-2.

John G. Duman, associate dean of science and professor of biological sciences, gave a lecture on "Antifreeze Proteins" at the University of Chicago in Chicago, Ill., Oct. 14.

Ralph El-Chami, assistant professor of finance and business economics, presented the paper "Transfers, Incentives and German Reunification" co-authored with Jeffrey Fischer at the fall 1992 meetings of the Midwest International Economics Group at the University of Pittsburgh in Pittsburgh, Pa., Oct. 18-20.

Guillermo Ferraudi, professional specialist in the Radiation Laboratory, presented the paper "Magnetokinetic Effects on the Inner-Sphere Electron Transfers Between Transition Metal Complexes and Inorganic Radicals" at the fifth international meeting of Inorganic Chemistry in Concepcion, Chile, Jan. 4-7.

Mohamed Gad-el-Hak, professor of aerospace and mechanical engineering, presided over the session titled "Chaos" during the American Physical Society, Division of Fluid Dynamics, annual meeting in Tallahassee, Fla., Nov. 22-24. He participated as a member of the organization committee for the forthcoming AIAA Shear Flow Control meeting, to be held in Orlando, Fla., July 7-9.

Denis Goulet, O'Neill professor in education for justice, economics, delivered two guest lectures on "Development Ethics" and "African Development: Cultural Determinants" to the Cornerstone Pilot Curriculum Project at Samford University in Birmingham, Ala., Dec. 7.

Alexander J. Hahn, professor of mathematics, who is currently on leave at the Mathematisches Institut der Universität Innsbruck, delivered a lecture titled "The Group of Quadratic Algebras and the Arithmetic in the Witt Group" for Shafarevich's Laboratory for Algebra and Number Theory at Moscow's Steklov Institute, Oct. 29. He gave the colloquium lecture "Quadratic Algebras and the Arithmetic in the Witt Group" at the Steklov Institute in St. Petersburg, Nov. 1. Hahn was an invited participant at the conference "K-theory, Classical Groups, and Quadratic-Symmetric forms" held at the Universität Bielefeld, Dec. 8-11. He gave the colloquium lecture "The Group of Quadratic Al-

gebras and Arithmetic in the Witt Group" for the Mathematisches Institut at Bielefeld, Dec. 11. He presented the colloquium lecture "Quadratische Formen and Quadratische Algebren" for the Mathematisches Institut Der Universität Dortmund, Dec. 14. Hahn gave the seminar lecture "Applications of the Arf Invariant" to the Graduierten Kolleg of the Mathematisches Institut Der Universität Münster, Dec. 15. He gave the seminar lecture "The Group of Quadratic Algebras and Arithmetic in the Witt Group" at the Mathematisches Institut Der Universität Bochum, Dec. 17.

John D. Halfman, assistant professor of civil engineering and geological sciences, presented the paper "Bottom Current Dynamics in Lake Superior: The Limnologic and Paleoclimatic Implications" co-authored with M. Wegner at the American Geophysical Union annual fall meeting in San Francisco, Calif., Dec. 7-11.

Ronald A. Hellenthal, associate professor of biological sciences, was an invited participant in a National Science Foundation sponsored workshop on computerization of natural history collections held at the Kellogg Biological Field Station in Hickory Corners, Mich., Nov. 13-18.

Carlos Jerez-Farrán, associate professor of romance languages and literatures, presented "Mari-Gaila: Reclamo y Claudicación de una individualidad subyugada" at the Primer Congreso Internacional Valle-Inclán y su Obra in the Departament de Filologia Espanyola at the Universitat Autònoma de Barcelona, Spain, Nov. 18. He served as a session organizer for "Lorca en Nueva York: Cine, teatro, poesía y dibujos" at the Modern Language Association in New York, N.Y., Dec. 28.

Prashant V. Kamat, professional specialist in the Radiation Laboratory, gave the talk "Photochemistry of Fullerenes in Polymer Films and on Oxide Surfaces" at the Bhabha Atomic Research Center in Bombay, India, Dec. 8. He presented the workshop lectures "Photochemistry and Photoelectrochemistry of Semiconductor Colloids" and "Photochemical Processes on Surfaces" at the Regional Research Laboratory in Trivandrum, India, Dec. 15. He presented the talk "Decoration of Electrode Surfaces with Semiconductor Colloids" to the Indian Institute of Science in Bangalore, India, Dec. 21. Kamat gave the invited paper "Photoinduced Charge Transfer Processes in Colloidal Semiconductor Systems" at the second international conference on Solar Energy Storage and Applied Photochemistry in Cairo, Egypt, Jan. 6-11.

Kwan S. Kim, professor of economics and faculty fellow in the Kellogg Institute, presented a paper titled "The Political Economy of Statism in Korea" to the Korea Economic Association in Seoul, Korea, Aug. 21. He presented a paper titled "An Alternative Strategy for Equitable Growth in Developing Countries" at the Institute of Economic Research Seminar at Hitotsubashi University in Tokyo, Japan, Oct. 7. Kim

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read a paper titled "Foreign Trade Regimes, Employment, and Income Distribution: Selected Country Studies" Asia Research Association seminar at Aoyama Gakuin University in Tokyo, Japan, Oct. 1. He presented a paper titled "The NAFTA and Asia" at the International Christian University in Tokyo, Japan, Oct. 12.

Janet A. Kourany, adjunct associate professor of philosophy, organized and presented a paper at a symposium titled "New Directions in Philosophy of Science: Issues of Gender and Race" with Sandra Harding, Helen Longino and Gonzalo Munevar at the Philosophy of Science Association meeting in Chicago, Ill., Oct. 29-Nov. 1. She presented a paper titled "Gendered Dimensions of Philosophy of Science" at the University of Utah, Salt Lake City, Utah, Jan. 7.

Gary A. Lamberti, assistant professor of biological sciences, presented the invited talk titled "Invertebrates and Other Benthic Features as Indicators of Environmental Change in Juday Creek, Indiana" co-authored with **Martin B. Berg**, assistant professional specialist in the Radiation Laboratory, at the 19th annual Natural Areas conference in Bloomington, Ind., Oct. 27-30.

Irene P. Leahy, adjunct instructor in the Freshman Writing Program, and **Edward A. Kline**, professor of English and O'Malley director of the Freshman Writing Program, received a grant for a scanning conversation project for the Educational Technology Jump Start Program by the Office of University Computing.

George A. Lopez, acting Regan director of the Kroc Institute, provided testimony to the Ad Hoc Committee on the 10th anniversary of the *Challenge of Peace*, Nov. 15. The committee, chaired by Cardinal Mahony, will be preparing a 1993 draft of a pastoral letter for the U.S. Catholic Conference of Bishops which will discuss the unfinished agenda of the *Challenge of Peace* (1993) and will examine the ways in which peacemaking might unfold in the contemporary world.

John M. LoSecco, professor of physics, gave the invited talk "Physics and Astrophysics with Underground Detectors" at the Elementary Particle Physics Seminar in the Physics Department at Princeton University in Princeton, N.J., Dec. 2.

Paul J. McGinn, associate professor of electrical engineering, organized the symposium "High Temperature Superconducting Compounds: Processing and Related Properties" at the fall TMS meeting in Chicago, Ill., Nov. 2-4. McGinn and his students presented the talks "The Effect of $(\text{RE})_2\text{O}_3$ Additions on Melt Textured $\text{YBa}_2\text{Cu}_3\text{O}_x$ Microstructures," "A Study of 211 Coarsening in $\text{YBa}_2\text{Cu}_3\text{O}_x$ " and "The Effect of Dislocations on Flux Pinning Properties of $\text{Bi}_2\text{Ca}_2\text{SrCu}_2\text{O}_x$." McGinn chaired the symposium session titled "Processing: Recent Progress and Novel Approaches" and chaired the meeting of the TMS Superconducting Materials Committee

and attended the executive council meetings of the Structural Materials Division and the Electronic, Photonic and Magnetic Material Division of TMS.

Walter J. Nicgorski, professor in the Program of Liberal Studies, presented the lecture "The American Revolution and the Constitution" at the Forever Learning Institute in South Bend, Ind., Nov. 11.

Rev. Thomas O'Meara, O.P., Warren professor of theology, gave the lecture "The Making of *Paul Tillich in Catholic Thought* (1964)" at the meeting of the North American Paul Tillich Association at the American Academy of Religion in San Francisco, Calif., Nov. 21.

Rev. Hugh R. Page Jr., assistant professor of theology, chaired the inaugural colloquium of the Institute for Ancient Near Eastern and Afroasiatic Research in San Mateo, Calif., Nov. 20. He gave the keynote address titled "An Introduction to the Institute for Ancient Near Eastern and Afroasiatic Cultural Research: Origin and Future Agenda" and presented a paper titled "Ethnological Criticism: An Apologia and Application" at that institute.

Samuel Paolucci, associate professor of aerospace and mechanical engineering, presented the paper "The Minimization of the Solidification Time of a Thin Cylindrical Shell" co-authored with **S. Das** and **Mihir Sen**, associate professor of aerospace and mechanical engineering, at the 113th ASME winter annual meeting held in Anaheim, Calif., Nov. 8-13. He presented the paper "Stability of Unstably Stratified Shear Flow in a Channel Under Non-Boussinesq Conditions" co-authored with **O.V. Vasilyev** at the 45th annual meeting of the Division of Fluid Dynamics of the American Physical Society in Tallahassee, Fla., Nov. 22-24.

Joseph M. Powers, assistant professor of aerospace and mechanical engineering, presented a paper "Pyrotechnic Modeling for the NSI Driven Pin Puller" at the seventh NASA/DoD/DoE Aerospace Pyrotechnic Systems Steering Committee Meeting at the NASA Langley Research Center in Hampton, Va., Dec. 9.

Joachim Rosenthal, assistant professor of mathematics, presented the joint paper with **Monachanallur S. Ravi**, visiting assistant professor of mathematics, "On Homogeneous Autoregressive Systems" in Ft. Worth, Tex., Dec. 14-15. Rosenthal presented the paper "Dynamic Pole Placement and the Connection to Geometry" co-authored with **Ravi** at the 31st IEEE conference on Decision and Control in Tucson, Ariz., Dec. 16-18.

Ken D. Sauer, assistant professor of electrical engineering, presented a paper titled "Hierarchical Image Coding with Diamond-shaped Subband" at the SPIE conference on Visual Communications and Image Processing '92 in Boston, Mass., Nov. 18-20.

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Thomas Gordon Smith, chair and professor of architecture, gave the keynote address "The Question of Authority" to the first meeting of the Classical Architectural League in Alexandria, Va., Oct. 31. He presented the lecture "Grecian in Egypt; Rosedale and Other Lafevrian Buildings" at the symposium on Grecian Architecture and Furniture in the Great Lakes Region, ca. 1842, in the School of Architecture, University of Notre Dame, Notre Dame, Ind, Nov. 7. He lectured on "Vitruvius, His Relevance Today" for the Prince of Wales' Institute of Architecture in London, England, Nov. 9. He gave the lecture "Authority and Faith" for the symposium Learning to Believe Again sponsored by *Image*, a journal at the Pacific School of Religion, Berkley, Calif., Nov. 21.

James P. Sterba, professor of philosophy and faculty fellow in the Kroc Institute, presented a paper titled "Environmental Justice" at Gonzaga University in Spokane, Wash., Oct. 14. He presented "Reconciling Anthropocentric and Nonanthropocentric Environmental Ethics" at the University of Washington in Seattle, Wash., Oct. 15. He spoke on "Feminist Justice and the Pursuit of Peace" at the fifth national meeting of Concerned Philosophers for Peace held at the University of North Carolina at Charlotte, N.C., Oct. 16-18. He presented "Environmental Justice" at Carleton University in Ottawa, Canada, Oct. 22. He presented "Reconciling Conceptions of Justice" at the University of Ottawa, Ottawa, Canada, Oct. 23.

William C. Strieder, professor of chemical engineering, presented the invited lecture "Aspects of Radiation Heat Transport in Porous Media" to the Department of Chemical Engineering of Johns Hopkins University in Baltimore, Md., Dec. 3.

Rafael A. Tenorio, assistant professor of finance and business economics, presented the paper "On Financing the Internal Enforcement of Illegal Immigration Policies" co-authored with Gabriello Bucci at the fall 1992 meetings of the Midwest International Economics Group at the University of Pittsburgh in Pittsburgh, Pa., Oct. 18-20.

James C. VanderKam, professor of theology, presented the lecture "The Dead Sea Scrolls and the Early Christian Church" and participated in a debate with Lawrence Schiffman on "Who Wrote the Scrolls" at the Biblical Archaeology Society Seminar titled Understanding the Dead Sea Scrolls in San Francisco, Calif., Nov. 19-21. VanderKam chaired the meeting of the ASOR Ancient Manuscripts Committee in San Francisco, Calif., Nov. 20. He presented the paper "Apocrypha, Pseudepigrapha, and the Dead Sea Scrolls" as part of a panel organized by the National Association of Professors of Hebrew at the annual meeting of the Society of Biblical Literature held in San Francisco, Calif., Nov. 23.

Edward Vasta, professor of English, and Dino S. Cervigni, University of North Carolina at Chapel Hill, gave the invited lecture "Against Dividing the *Vita Nuova*: Philology, Literacy, and Orality" at the University of Wisconsin in Madison, Wis., Nov. 23.

Yi-Ming Wang, research associate in the Radiation Laboratory, presented the paper "Aggregates of C_{60} and C_{70} Formed at the N_2/H_2O Interface and in DMSO/ H_2O Mixture. A Photophysical Study" co-authored by **Larry K. Patterson**, faculty fellow in chemistry and assistant director of the Radiation Laboratory, and **Prashant V. Kamat**, professional specialist in the Radiation Laboratory, at the fifth inter-American Photochemical Society winter conference in Clearwater Beach, Fla., Jan. 3-6.

Mitchell Wayne, assistant professor of physics, presented an invited talk titled "A Scintillating Fiber Detector for the DO Upgrade" at the annual meeting of the Division of Particles and Fields of the American Physical Society at Fermilab in Batavia, Ill., Nov. 10-14.

John P. Welle, associate professor of romance languages and literatures, gave the paper "The Critique of Marxism in Pasolini's Later Works" at the conference on Marxism in the New World Order at the University of Massachusetts in Amherst, Mass., Nov. 12. He presented the paper "Dialect Literature, Translation Studies, and the Italian Canon" at the conference of the American Association of Teachers of Italian held in Chicago, Ill., Nov. 20.

Eduardo E. Wolf, professor of chemical engineering, presented a paper titled "STM/AFM Characterization and Manipulation of Surfaces" and chaired a session in "Future Direction in Catalysis Research" at the 1992 annual meeting of the American Institute of Chemical Engineers in Miami, Fla., Nov. 1-6. He co-authored a paper on "STM Studies of the Evolution and Reactivity of Pd/Graphite Catalysts" with doctoral student K. Yeung and a paper on "Spatial Patterns in Catalytic Reactions" presented by **Hsueh-Chia Chang**, chair and professor of chemical engineering, at that meeting. He presented a paper on "STM Study of the Microstructure and Reactivity of Pd/Graphite" co-authored with Yeung at the national symposium of the American Vacuum Society in Chicago, Ill., Nov. 9-13.

Kwang-tzu Yang, Hank professor of aerospace and mechanical engineering served as program chair for the meeting of the 1992 American Society of Mechanical Engineers which included 450 technical sessions in Anaheim, Calif., Nov. 7-14. He presented two papers titled "Effect of Imposed Wall Temperature Oscillations on the Stability of Natural Convection in a Square Enclosure" with Xia and Mukutomoni and "Many Routes to Chaotic Rayleigh-Benard Convection in a Small Aspect Ratio Box" with D. Mukutomoni at that meeting.

Administrators' Notes

Honors

Michael Langthorne, associate director of Educational Media, received a Second-Place Award in Systems and Facilities Design from the International Communications Industries Association for the design and implementation of Media-On-Call in DeBartolo Hall.

Activities

Dale Getz, athletic facilities manager, presented a paper in the "Tips from the Pros" workshop at the Sports Turf Managers Association in Indianapolis, Ind., Dec. 14.

Phillip A. Johnson, assistant director of Security/Police, presented the workshop "Dealing with Upset and Angry People" at the winter 1992 Indiana Student Financial Aid Association conference in Indianapolis, Ind., Dec. 3.

Michael Langthorne, associate director of Educational Media, was an invited participant by a Fortune 500 company to be part of a Research and Analysis Focus Group in Rochester, N.Y., Dec. 8.

Peter A. Pratica, director of alumni community service programs for the Alumni Association, served on the panel "Advocacy and Alumni Relations: What Kind, How Much?" with Philip Mason, vice president for University Relations at Bowling Green State University, and Margaret Carlson, executive director of the University of Minnesota Alumni Association, at CASE V in Chicago, Ill., Dec. 13. He presented "Social and Community Service within the Alumni Body: The Advancement Payoff" at that conference, Dec. 15.

Documentation

248th Graduate Council Minutes November 11, 1992

Members present: Nathan O. Hatch, chair; Harold W. Attridge; Jeanne D. Day; Ethan T. Haimo; Maureen T. Hallinan; John W. Houghton; Gerald L. Jones; Jeffrey C. Kantor; Michael L. Kelly; Chau T.M. Le; Stuart T. McComas; Anthony N. Michel; Robert C. Miller; Kathie E. Newman; Thomas L. Nowak; James H. Powell; Barbara M. Turpin; Chris R. Vanden Bossche; Diane R. Wilson.

Members absent and excused: Francis J. Castellino, represented by John G. Duman; Kimberly A. Gray; Gary M. Gutting; John G. Keane, represented by Robert W. Williamson Jr.; Scott P. Mainwaring; Wilson D. Miscamble, C.S.C.; John H. Van Engen.

Guests: Daniel J. Costello Jr.; Wolfgang Porod.

Observer: Peter Diffley.

Dr. Nathan O. Hatch opened the meeting at 3:37 p.m. on November 11, 1992, in Room 210, Center for Continuing Education.

I. MINUTES OF THE 247TH GRADUATE COUNCIL MEETING

The minutes were approved without correction.

II. REVIEW OF THE DEPARTMENT OF ELECTRICAL ENGINEERING

Dr. Hatch called upon Professor Jeanne Day, chairperson of the internal review committee, to comment upon its report.

Dr. Day said that the department had been reviewed very positively in all categories and that most of the small problems had already been addressed. There were two major concerns: integration of foci within the department and the absence of a long-range departmental plan.

Dr. Hatch asked Professor Daniel Costello, chairperson of the department, for his comments on the review. Dr. Costello said that the department is in the process of absorbing the Department of Materials Science and Engineering and losing staff to the new Department of Computer Science and Engineering. Furthermore, the system's focus is well established while the reputation of the newer solid-state area is still emerging. Time will cure the problems of transition. As for a long-range plan, a committee has been formed to develop a five-year plan to state in concrete terms where the department wants to be and how to get there.

III. DISCUSSION OF WHAT CONSTITUTES AN OFFICIAL LISTING OF GRADUATE COURSES

Dr. Hatch asked Professor Stuart McComas to present for discussion the apparent conflict between the Graduate School's desire to limit course listings in the *Bulletin of Information* to recent and projected offerings, and the faculty's understanding that all approved courses must be listed in the *Bulletin*.

The following questions were discussed: Who should maintain a Master List of Courses? Should irregularly taught courses be included? Should courses that haven't been taught for several years be excluded? How do new courses get included? How will "Topics" courses be described? It was resolved that discussion will cease until the Graduate School can discuss course listings with the Registrar.

IV. OTHER BUSINESS

Dr. Hatch announced that Professor Jeffrey Kantor has agreed to chair the Graduate Council ad hoc committee to review Graduate School policies and requirements for the graduate degree.

The meeting was adjourned at 4:30 p.m.

Academic Council Minutes November 12, 1992

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, Eileen Kolman, Anthony Michel, Richard Sheehan, Molly O'Neill, Frank Bonello, David Burrell, C.S.C., Maria Rosa Olivera-Williams, Mark Pilkinton, John Roos, Robert Hayes, Mario Borelli, William Shephard, Mark Herro, Arvind Varma, Bill McDonald, Carolyn Callahan, Carol Mooney, Maureen Gleason, Kenneth DeBoer, Jean Marie Einloth, Edward Marcheschi, Reynold Nesiba, (Robert Williamson substituted for John Keane)

Observers in Attendance: Douglass Hemphill, Dennis Moore, James O'Brien Jr.

Guests: Steven Bass, Kamila Benson, Morton Fuchs, C. Lincoln Johnson, Edward Kline, Kevin Schroeder, Oliver Williams, C.S.C.

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

1. Minutes. The minutes of the council meeting of October 9 were approved as presented. Regarding the statement in the minutes that William Shephard had asked to be excused from serving on the Executive Committee, Fr. Malloy explained that the request was due to health-related matters in Prof. Shephard's family.

2. Membership of Standing Committees. Prof. Schmitz reviewed the procedures which guided the Executive Committee's assignment of council members to the standing committees on Faculty Affairs, Graduate Studies and Undergraduate Studies. Each committee consists of six elected council members, one student member and either three or four *ex-officio* members. (Lists of memberships are in Attachment A.) With the exception of Frs. Malloy and Beauchamp and Profs. O'Meara and Schmitz, all members of the Academic Council serve on one of the three committees. Initial meetings were scheduled for November 17, at which each committee is to elect a chairperson and initialize discussions of an agenda.

Fr. Malloy emphasized the importance of each committee inviting others to provide insights and points of view which could serve as a frame of reference in setting agendas. He agreed with Fr. Burrell that the work done in the various colloquy groups, in particular the Committee on Academic Life, would also be useful. Encouraging the committees to prioritize what they wanted to approach, he urged them to get off to a strong start since their spadework would provide the foundation for council discussions.

3. Presentation of Final Exam and Study Day Schedules for the Fall Semesters of 1993 and 1994. Prof. Schmitz reminded the members of two previous council decisions concerning the calendar which have caused this agenda item to come to the fore. The first of these, made in 1988, approved the "perpetual" Notre Dame academic calendar which hinges the academic year to the day of the week on which Christmas falls. The second, made in the spring of 1992, approved a recommendation that the last two class days of each semester be made study days. The result is that for a Christmas falling on a Saturday, as is the case for the 1993-94 academic year, the number of class days in the fall semester is reduced to 67. With Christmas on a Sunday, as it is for the 1994-95 year, the number of class days in the fall semester is 68. Prof. Schmitz stated that concerns about the reduction in class days and other calendar matters have been expressed recently by a number of faculty and administrators at Notre Dame as well as by Saint Mary's and Holy Cross colleges who find it necessary to follow Notre Dame's calendar closely. Owing to these concerns, the Executive Committee plans to review the "perpetual" calendar during the current academic year and may bring recommendations for changes to a later council meeting. The immediate matter for council consideration, however, is a recommendation from the Executive Committee for final exam and study day schedules for the fall semesters of 1993 and 1994 which depart from the strict application of existing rules.

Prof. Schmitz went on to explain that for those years in which Christmas falls on a Saturday or Sunday, the joint impact of the two aforementioned decisions is to cause an awkward and complicated final exam and study day pattern for the fall semester. For example, in fall 1993 there would be five consecutive study days following the last class day (December 10) and preceding final exams, which would start on December 16, plus a study day on a Sunday included in the exam period. In fall 1994 the last class day would occur on Monday, December 12, preceded by two study days, in effect, on the weekend and followed by three study days. Final exams would start on December 16, and there would also be a Sunday study day included in the exam period. To ameliorate these situations, the Executive Committee recommended the schedules of study days and final exams shown in Attachment B for the fall semesters of 1993 and 1994. The remainder of the calendar for those semesters, as well as the calendar for the spring semesters of those years, would not be affected. The number of class days for the fall semester of 1993 would remain at 67; the number for that of 1994 would be increased to 69. Prof. Schmitz reiterated that this proposal pertains only to the upcoming two years and that longer-lasting calendar matters would be brought up at a later date. It is necessary at this time, he stated, to announce the calendar for 1993-94 and desirable to announce also that for 1994-95.

Documentation

Dean Kolman suggested that when future calendars are constructed, consideration be given to interspersing study and exam days instead of lumping all study days at the beginning.

Prof. Mooney observed that the proposed calendars would cause problems for the Law School where there is a requirement of 70 class days each semester. Fr. Beauchamp asked whether the Law School could ameliorate these problems by beginning classes one week earlier. Prof. Mooney and Prof. O'Hara indicated that such an option might generate further difficulties in terms of housing and other facilities arrangements. The conclusion was that the Law School would probably have to extend its semester beyond that of the rest of the University in the fall of 1993, a move which Prof. O'Hara pointed out would have been necessary even without the proposed calendar modifications or the 1992 resolution on study days.

Fr. Malloy moved for approval of the calendars as proposed, and the motion was passed without dissent. The complete calendars for 1993-94 and 1994-95 will be distributed by the Registrar as soon as possible.

4. Proposal for a Graduate Program in Computer Science and Engineering. Prof. Steven Bass, chair of the Department of Computer Science and Engineering, presented a proposal for a new graduate program leading to a Master of Science degree in Computer Science and Engineering and the Doctor of Philosophy degree. His presentation was an overview of the information provided in Attachment C. (The reader will notice that reference is made in Attachment C to an Appendices A, B and C, which are not included with these minutes. Those appendices were included with materials distributed to council members in advance of the meeting.) The proposal material, he said, was developed to answer two key questions: Are faculty currently in place who are competent to teach graduate courses? Are those faculty competent to supervise and conduct research? Prof. Hatch informed the members that the Graduate Council had reviewed and approved the proposal unanimously. He added that a second proposal was approved at the same time, calling on the University to provide the needed financial resources for library support of new programs.

Responding to a question from Fr. Burrell concerning division of labor between the Department of Computer Science and Engineering and the Department of Electrical Engineering, Prof. Bass said that course proprietorship was negotiated on a case-by-case basis. This sometimes involved an entire course area, he said, and sometimes it meant that one department taught an undergraduate block and the other a graduate block. Dean Michel added that development of the Department of Computer Science and Engineering had decreased the overly broad responsibility of the former De-

partment of Electrical and Computer Engineering, allowing it to focus efforts. Prof. O'Meara inquired about the natural place for artificial intelligence and for neural networking. Prof. Bass responded that neural networking falls naturally within his department, while artificial intelligence could fall within either his department or the Department of Electrical Engineering.

Ms. Gleason emphasized the importance of the Graduate Council's resolution on funding for library support. The library is not currently equipped to support the graduate program in Computer Science and Engineering adequately, she said. Since no department is going out of existence or asking for less money, she continued, there is no built-in flexibility to support new programs. Fr. Malloy agreed that this is a significant problem which has emerged in every Colloquy discussion on resources. It is clear, he said, that only by additional resources will library support achieve the level which the academic units all require. Dean Michel pointed out that although library support is certainly very important, initial costs for the library constitute just one issue when starting a new department. Compromises have to be made, he said, to bring new programs into being.

Concerning the teaching responsibilities spelled out in the teaching apprenticeship section of the proposal and described by Prof. Bass, Dean Kolman commented that the language ability of graduate teaching assistants has presented a problem in other departments. She expressed concern that similar difficulties could appear in the assignment to teaching duties of graduate students in Computer Science and Engineering. Prof. Bass acknowledged this concern. Under the tentative plan worked out with the Graduate Council, he said, graduate students with inadequate English skills will not be put in the classroom, but will be assigned instead to tutorial roles where immediate and personal feedback makes language less of a problem. Responding to a question from Prof. Bonello, Prof. Bass said that the benefit of the teaching apprenticeship program does not lie in terms of the number of graduate students who subsequently enter the teaching profession, but in terms of developing the ability to communicate and to impart knowledge. The great majority of graduate students do not end up with academic positions, he said, because positions simply do not exist in the numbers they do in industry. Dean Michel added, however, that two Notre Dame Ph.D.s in the computer area have been placed in teaching positions at Iowa State University and the University of Arizona.

Questioning what financial support is provided to graduate students in Computer Science and Engineering, Prof. Callahan asked if the requirement to teach would entail an inordinately heavy burden. She expressed concern that the teaching apprenticeship program plus other work performed for financial support might lengthen the duration of a doctoral program considerably. Prof. Bass responded that

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the students in question are either on fellowships or research assistantships, and consequently already receive funding. Without the guarantee of funding, he said, these students would not come to Notre Dame.

Prof. Roos remarked that since such a program represents a major investment by the University, it would be useful to assess the impact of the proposed graduate program not only on the reputation and research capability of the College of Engineering, but on the assignment of undergraduate teaching resources as well. Given fixed teaching resources within the department, he said, starting a doctoral program implies replacing some undergraduate teachers with graduate assistants. Prof. Bass replied that this is always the case when graduate courses are created, but added that the impact would be very limited and carefully monitored. Dean Michel pointed out that the creation of a graduate program was foreseen when the Department of Computer Science and Engineering was established. Without such an intention, he said, the college would not have been able to attract the highly qualified faculty it now has. Prof. Shephard concurred, observing that without the graduate program the department would not be a fully effective unit.

Ms. O'Neill and Prof. Varma wondered about the ability of these graduate students to meet both the demands of their own course work and the preparation of courses they teach. Prof. Bass responded that the key is to reduce preparation time by very carefully matching the students with courses that are associated with their research interests. Dean Castellino remarked that requiring graduate students to teach is totally consistent with traditions in science and engineering.

Addressing Prof. Varma's concern that the graduate students in the teaching apprenticeship program would be used simply as graders, Prof. Bass emphasized that this would not be the case. The purpose of the program is to provide them with the interaction and education that derives from the teaching experience. This has to involve some preparation, he said, but it does not include grading.

There being no further discussion, the motion to approve the proposal was passed by the council without dissent.

5. Clarification Concerning the Draft Mission Statement for the Colloquy for the Year 2000. Prof. Varma asked to make two points concerning the discussion from the council meeting of October 8. He observed that the minutes of that meeting should be sent to the Committee on Mission, Opportunities and Challenges, and he questioned the presentation of the draft in *Notre Dame Report* (No. 5, 1992-93). The notation accompanying that presentation, he said, implies that what is printed is the *approved* mission statement rather than a draft. Fr. Malloy replied that the minutes

have been received by the Committee on Mission, Opportunities and Challenges. Prof. Mooney added that the Mission Subcommittee has already contacted *Notre Dame Report* to request clarification of the second point in the next issue.

6. Continuation of Discussion of Undergraduate Education at Notre Dame. Fr. Malloy initiated the discussion, a continuation of that of the meeting of October 8, by observing that the focus thus far has tended to be internal. It seems necessary, he said, to develop a comparison between Notre Dame and other institutions which will serve as a frame of reference for the discussion and evaluation of undergraduate education here. In order to understand our own situation, it is important to ask if any other institutions, particularly those with which we compete for students, are doing a better job relative to available funding, faculty and student size, student career goals, and so forth. Asking whether we are comparing Notre Dame to other *universities* or to *colleges* with respect to areas such as teaching and research, he reminded the members about a point made last year by Paul Kenney concerning the difference between what students might expect at one as opposed to the other. In many state universities, he continued, relatively few students graduate in four years, either because of a lack of financial aid or a lack of sufficient courses to satisfy the major within that time. Research is needed that will show in more than anecdotal terms the extent to which other schools are succeeding, not so that we can congratulate ourselves but so that we can put our demands and objectives in perspective.

Secondly, Fr. Malloy said, many of the comments made thus far in our discussion of undergraduate education have focused broadly on the College of Arts and Letters without looking at the differences that may exist among the areas of humanities, social sciences, and fine and performing arts. Differences among these areas, as well as among the four colleges, need to be addressed.

Prof. Varma agreed that a comparison would be very much in order as a guide to what we do in undergraduate teaching. He suggested looking at a random sample of recent students to assess their experiences in terms of course size, required versus elective courses, and instructor classification. The results of this survey could be used to develop a profile of the average undergraduate experience, which might then be compared with similar profiles from schools identified by the council's Committee on Undergraduate Studies. Prof. Bonello pointed out that the Office of Institutional Research has the capability of dealing with the University as a whole for such data rather than using a sample.

Fr. Malloy asked the student members of the council to comment on dimensions of the undergraduate question that they would like brought to the surface for the Committee on Undergraduate Studies. Ms. O'Neill responded that the Student Government Committee on Undergraduate

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Education is still working through a number of reports produced recently by the Office of Institutional Research and does not have any specific questions as of yet. She agreed with the idea of comparing Notre Dame with other universities, but cautioned against overlooking Notre Dame's historical dedication to teaching. That dedication should be maintained or enhanced, she argued, not simply brought to a par with other schools.

Fr. Malloy said that although the question of who is teaching is the one most often heard, it seems that this question is concerned almost exclusively with the College of Arts and Letters. In that college, a large number of courses have been taught by a mix of people for historical reasons and for purposes of preparing graduate students to move into the teaching profession. If the issue in the Colleges of Engineering and Science is something else, however, then that issue needs to be factored into the discussion of quality of instruction as well. Dean Michel pointed out that without quotas or limits on the number of students in a department or discipline, problems will inevitably exist with quality control in terms of teacher/student ratio and quality of instruction. Although teaching loads in the College of Engineering are fairly reasonable now, he said, pressure points exist in such areas as chemical and mechanical engineering. He recommended that this issue should be addressed in some way in order to minimize these pressure points.

Prof. Sheehan observed that it is also important to consider how the Freshman Year of Studies affects course planning by each of the colleges, since it is that experience that determines future major fields of study. Dean Castellino added that the open enrollment of freshmen has meant there is no strategic planning between freshman and sophomore years. The problem is not necessarily insufficient numbers of faculty, he said, but inadequate facilities and the inability to predict numbers of students in various courses and majors accurately. He expressed concerns that national trends toward a growth of interest in environmental studies and civil engineering may not be adequately factored into our planning.

Prof. O'Meara responded that our open admission policy historically shows an almost predictable cycle in college enrollment. Since Notre Dame so reliably draws from a broad spectrum of interests, he argued, establishing gates for specific disciplines would result in under enrollment at the University during periods in which the demand for a certain discipline was very low. Rather than gates, the Colloquy Committee on Academic Life has recommended devising a plan to minimize the amplitude of the cycle and provide some funding flexibility to support colleges or departments during periods of high enrollment.

Dean Castellino questioned the extent to which the migration of students among disciplines might be factored into our planning. He speculated that the flow of students into the Colleges of Science and Engineering after the freshman year from other intended majors may not be significant since such students have not taken the courses that would enable them to migrate into those fields. Dean Kolman pointed out that analysis performed by the Freshman Year of Studies does provide some basis for predicting what will happen in terms of flow.

Fr. Malloy concluded discussion of this item with the observation that these discussions have carved out a great deal of material for the Committee on Undergraduate Studies to ponder.

7. Discussion of the Academic Code of Honor. Prof. O'Meara noted that a Council Code of Honor Committee had been formed last year to review the academic code of honor, then in its last year of a planned five-year experiment, and to structure a council discussion of issues surrounding the code. Following such discussion, the council should decide whether to approve the code, either in its present or amended form, as official University policy or to abandon it. The committee's report, including a list of members, is given in Attachment D. (Council members were sent results of the student and faculty surveys, referred to in the report, along with a copy of the *Academic Code of Honor Handbook*. Lincoln Johnson, director of the Social Science Training Lab, who helped conduct the survey for the University Code of Honor Committee, attended this meeting as a guest.)

Prof. Fuchs, chair of the council's Code of Honor Committee, presented the report, and Dr. Johnson explained the surveys. Dr. Johnson told the council that the surveys' respondents are satisfactorily representative of the general University population and that the results should be indicative of campus-wide opinions. Prof. Fuchs cited some of the results of the surveys including those which indicate that 85 percent of the students and 74 percent of the faculty favor an academic code of honor in principle. He went on to say that the first question for the council to consider is whether in principle it favors the existence of *some kind* of academic honor code at Notre Dame.

Fr. Malloy observed that the central and most difficult component of any system of professional ethics is that of mutual accountability. It should be no surprise that this component is also the most difficult for the students to accept. Given society's tendency to debate even the most consequential values and behaviors, it follows naturally that consensus on the question of honesty of performance in the academic setting should hardly be expected.

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Ms. Benson remarked that during a recent interview she had with a major corporation, the issue of nontoleration of unethical conduct emerged as an extremely important concern to the corporation. The interviewer, she said, was enthusiastic about the fact that Notre Dame has an honor code. Mr. Schroeder told the council that at a recent national conference of student honor code representatives, it became clear that the nontoleration clause is a major issue among students across the country. He speculated that some alternative may be developed, but for now the nontoleration clause is a necessary element of an honor code.

Dean Castellino expressed concern about the effect of the honor code, and the nontoleration clause in particular, on student interaction. On one hand, he argued, the worst thing would be to have a watered down honor code. On the other hand, a strong code implies the necessity of unproctored exams and a nontoleration clause, and it is these two mandatory components which are the most likely to be violated.

Ms. O'Neill observed that many students feel that an honor code should have a larger scope. Rather than restricting it to academics, she said, these students argue that the University should develop a more universal code which covers other areas of student life as well.

Prof. Callahan spoke about Notre Dame's responsibility to prepare students for life after graduation. If we are to prepare our students to perform as moral and ethical members of society, she argued, we need to show them the necessity of making the hard decisions and accepting the responsibility to speak out when they witness unethical behavior. The concept of nontoleration is an appropriate vehicle for that purpose. While agreeing with most of the foregoing, Prof. Borelli felt that the students and others are not always persuaded that there is a relationship between following the strict rules of an academic honor code and accepting responsibility for ethical decisions in life.

Ms. Gleason commented that the survey results, as well as comments she has heard concerning the code, indicate that it is not working from either the student or faculty point of view. To proceed with the current code, she said, does not seem productive. Dean Castellino agreed, saying that the survey results demonstrate that the great majority of students do not adhere to the nontoleration clause.

Ms. Benson disagreed. Although the honor code is not perfect, she said, it is far better than no code at all. She referred to comments from faculty which made clear their feeling that proctoring of exams was not needed, and to comments from students which reflected support for the nontoleration clause. In her experience, Ms. Benson remarked, the ethical guidelines embodied in the code have been helpful.

Prof. Sheehan observed that how one views the success of the present form of the code of honor depends on one's expectations from the beginning. Significant problems exist, he said, because the code contains absolutes that are not normally applied in other areas of life. Those problems mean that efforts need to be made to modify procedures and ameliorate difficulties rather than calling the experiment a failure. Prof. Kline felt that the code has had some demonstrable effect. He noted that the incidence of plagiarism in the Freshman Writing Program has declined from about 20 cases per year five years ago to none during both semesters of academic year 1991-92.

Fr. Williams informed the council that in a survey of 27 major schools who have honor codes he found unanimous agreement that the value of a code is in its provision of a means to raise the issue of integrity with new students. Although there is a great deal of disparity concerning precise rules, the inclusion of an honor code in the student handbook serves to remind students of the moral dimension of their academic experience. In the case of Notre Dame, he added, the code of honor gives faculty a reason to raise the issue of integrity in the classroom. The fact that so many more faculty do so now than in 1987 testifies to the value of the code.

Fr. Malloy asked for a written vote on whether the council members support an honor code *in some form*. The result of that vote was 22 in favor, five opposed.

Prof. O'Meara stated that each member would receive another copy of the *Academic Code of Honor Handbook* prior to the next scheduled meeting on December 9. He asked council members to be prepared to vote at that meeting on whether they subscribe to the purpose of the code as stated in the introduction section of the handbook. If a member does not so subscribe, he said, suggested modifications should be submitted in writing to Prof. Schmitz for distribution to the entire council in advance of the December 9 meeting.

The meeting adjourned at 5:15 p.m.

Respectfully submitted,

Roger A. Schmitz
Secretary of the Academic Council

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Attachment A

Standing Committees of the Academic Council, 1992-93

Faculty Affairs: David Burrell, C.S.C., Carolyn Callahan, Francis Castellino, Ken DeBoer, Jean Marie Einloth**, Maureen Gleason, Anthony Michel*, Carol Mooney, Mark Pilkinton, Richard Sheehan*

Graduate Studies: Fernand Dutile*, Nathan Hatch*, Robert Hayes, Mark Herro, John Keane*, Robert Miller*, Maria Rosa Olivera-Williams, John Roos, William Shepherd, Thomas Werge, Reynold Nesiba**

Undergraduate Studies: Harold Attridge*, Frank Bonello, Mario Borelli, Regina Coll, Neil Delaney, Eileen Kolman, Edward Marcheschi**, Bill McDonald, Patricia O'Hara*, Molly O'Neill* **, Arvind Varma

* ex-officio members of the council

** student members of the council

Attachment B

1993-94 Academic Calendar: December 1993

Dec. 5-11, 14th week of fall semester
Dec. 10, Last class day (total of 67 class days)
Dec. 11, Study day
Dec. 12-18, 15th week of fall semester
Dec. 12-13, Study days
Dec. 14-18, Final exams

1994-95 Academic Calendar: December 1994

Dec. 4-10, 14th week of fall semester
Dec. 11-17, 15th week of fall semester
Dec. 13, Last class day (total of 69 class days)
Dec. 14, Study day
Dec. 15-17, Final exams
Dec. 18, Study day
Dec. 19-20, Final exams

Attachment C

To: University Graduate Council
From: The Faculty of the Department of Computer Science and Engineering
Re: A New Graduate Program
Date: September 24, 1992

Who We Are. The Department of Computer Science and Engineering (CSE) at Notre Dame maintains Baccalaureate degree programs in both Computer Science and Computer Engineering. This is a new department at the University. It began in August 1990 as a spin-off from the Electrical and Computer Engineering Department. Its first chairman joined the CSE faculty in August of 1991. At this time, the department had six permanent faculty. Since the University has also assigned six additional (new) professorial positions to the CSE Department, we have been involved in a heavy faculty recruiting effort during this past academic year. As a result, one new professor was welcomed in January 1992, and three more joined us in August of 1992. (The remaining two faculty slots — for a total of 12 — will not likely be filled prior to August 1993.)

What Are We Proposing? At the CSE Department's creation, it was expected that it would bring forward a plan for a graduate program as soon as its faculty roster grew to the point where such a program could be maintained. Since we believe that the point of "critical mass" has been reached, we hereby propose that the department be authorized to offer two degree programs: one leading toward the degree of Master of Science in Computer Science and Engineering and the other the Doctor of Philosophy degree. We further propose that these degree programs take effect August 23, 1993.

Why? The CSE faculty makes this proposal for several reasons:

- 1) All the CSE faculty are strongly research-oriented, and wish to work within a flourishing research environment. Without graduate degree programs, the students to support such an environment simply won't be here.
- 2) In the future, our ability to attract new CSE faculty of the highest calibre will depend upon the existence of a strong graduate research program. This statement also applies to any prominent faculty visitors whom (from time to time) we will undoubtedly wish to invite to join us on a temporary basis.
- 3) The presence of the highest quality CSE faculty will directly enhance our undergraduate program, as well.
- 4) An active research component is simply expected of any department residing within Notre Dame's College of Engineering.

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5) We hope that our service to the Computer Science and Computer Engineering professions will be clearly enhanced by expanding our activities into graduate education.

Degree Program Details. The proposed course and examination requirements for these two new degree programs are given in Appendix A ("Graduate Program Regulations") in more detail than most readers of this document will need. However, we will summarize these requirements here.

M.S. in Computer Science and Engineering. Only a thesis option will be available; 30 semester hours required, a maximum of six of which may be awarded for M.S. thesis work; no more than nine hours allowed for courses taken outside the CSE Department; four core courses must be taken; no more than 10 hours of 400-level courses may be used to satisfy degree requirements; Master's Comprehensive Examination will consist of an Oral Thesis Defense, only. (See last page of Appendix A for bulletin descriptions of the four department core courses.)

Ph.D. Seventy-two credit hours including a minimum of 42 credit hours of formal course work; at least three hours of mathematics; all four core courses must be taken; no more than 12 hours of 400-level courses may be used to satisfy degree requirements; Qualifying and Candidacy Examinations must be passed, as well as a Dissertation Defense; at least eight hours (per week) of teaching experience required during two semesters of residency.

Research Focus. Since this new department is not going to be a large one, it is clear that its research activities will never be broad enough to "cover the waterfront." Only a limited number of research specialties will ever receive in-depth attention by our faculty. On the other hand, because the department is new, we have been able to designate those research specialties ourselves. The selected specialty areas are:

- 1) **PARALLEL AND DISTRIBUTED COMPUTING** – including the operating systems and software application environments which support distributing large computational problems across many machines, as well as the necessary physical interconnection and network protocols.
- 2) **PARALLEL ALGORITHMS** – which for many researchers means algorithms for cooperative execution among numerous, widely-distributed commercial engines. But these algorithms could also be targeted for new computing architectures entirely.
- 3) **VLSI** – in particular, the consideration of Very Large Scale implementations of special or general purpose computers. Also, design aids for these VLSI implementations.
- 4) **NEW COMPUTING ARCHITECTURES** – especially those that would map well onto silicon, gallium arsenide, etc.

Faculty Research Credentials. Brief vitae for the 10 current CSE faculty are provided in Appendix B. Collectively, these individuals have published over 250 journal articles, conference papers and technical reports; been awarded 10 patents; and attracted over \$7,000,000 in research and equipment funds.

Past Graduate Courses. Prior to this department's formation, several of our current faculty held appointments in the Electrical and Computer Engineering Department, and taught graduate courses there. Computer Science and Computer Engineering graduate courses continue to be taught by CSE faculty, though all our graduate offerings will carry Electrical Engineering course numbers until a CSE graduate program is formally approved by the University. Detailed course outlines for those graduate courses taught by CSE faculty during (approximately) the last four years are assembled in Appendix C.

Graduate Research Supervision. Though the CSE Department does not yet have its own graduate program, its faculty members have continued to supervise graduate research. (The department's students appear on the books as electrical engineering students.) Thus, since the summer of 1990 (the time of the department's beginning), one Ph.D. and 10 M.S. students — all having a CSE thesis advisor — have graduated. Currently, 23 graduate students have major professors on the CSE faculty: 14 are M.S. candidates, and nine are Ph.D. candidates.

Formal Request. The CSE faculty believes that the department now has sufficient faculty with the quality and experience to maintain a first-class graduate program on its own. Therefore, we hereby request that the Computer Science and Engineering Department be authorized to offer two degree programs: one leading toward the degree of Master of Science in Computer Science and Engineering and the other the Doctor of Philosophy degree. These degree programs would take effect August 23, 1993.

Appendix D

Report of the Academic Council Subcommittee on the Academic Code Of Honor

The minutes of the Academic Council meeting of April 22, 1992, quoted below, define the mission of this committee:

"The council approved a motion to select a committee to study the reports further and to formulate a structured discussion for future council meetings."

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Committee Members: Dr. Morton S. Fuchs (chairman), Dr. Nathan O. Hatch, Dr. Mark A. Herro, Dr. Eileen M. Kolman, Dr. Suzanne Marilley, Dr. Bill D. McDonald, Ms. Molly Ann O'Neill.

This committee noted that much time has already been spent debating the University of Notre Dame's current Academic Code of Honor by the Academic Council. Inherent in the approved motion (as quoted above) is the feeling by the majority of the council members that these previous discussions have been unstructured and that it would therefore be inappropriate for council members to cast the final vote with regard to the continuance or non-continuance of the University of Notre Dame's Academic Code of Honor.

This committee agrees with this contention and after studying the reports has come to a consensus identifying the reason for the unfocused nature of previous discussions. Specifically it has been because two major issues concerning the code were not separated. This intermixing has apparently led to some confusion and uncertainty during council deliberations.

The two issues alluded to above are:

1. Addressing this question – Would you be in favor of some kind of academic honor code at Notre Dame?
2. If the answer to the question posed above is negative, then no further debate is required. If, however, it is affirmative then the specifics and possible modifications of the existing code must be dealt with.

In order to structure discussion here is our proposal:

I. *The Question* – Would you be in favor of some kind of academic honor code at Notre Dame?

1. The University Academic Code of Honor Committee has conducted two surveys — one to students, the other to faculty. Therefore before this meeting all council members should be sent copies of the results of both surveys, with a cover letter explaining how the surveys were conducted. In addition, the written comments of the respondents should also be included. This is important because council members should be aware of a sample of the views of the community. We note that the majority of respondents were in favor of an "Academic Code of Honor in principle." Specifically, 85.1 percent of the students surveyed were affirmative, 7.3 percent negative and 6.9 percent undecided. The faculty answers to the same question resulted in 74.1 percent in favor, 13.9 percent against and 9.9 percent undecided.

A legitimate concern raised by many individuals at previous council meetings has been, "Is it contradictory to have formal honor code at a Catholic university?" In our view, this would be the first order of business the council should decide.

2. Council members should then have the opportunity verbally and/or in writing to refute or affirm the validity of the results of the surveys focusing on that one question above.

3. When sufficient discussion of this question has been concluded a vote should be taken. If the majority of council members are not in favor of some kind of an honor code at Notre Dame then the issue is dead and it seems futile to proceed with further debate. If, on the other hand, the response is favorable, we suggest moving on to the next level of discussion.

II. *A Notre Dame Code of Honor*

The surveys already conducted reveal that only 25 percent of the faculty and 19.4 percent of the students are in favor of the current code. Clearly there is a gap between those who think an academic honor code is a good "idea" and those who support the current code. We therefore suggest discussion be directed toward the following issues:

1. What is the purpose of any honor code? The code handbook states that the current Code of Honor attempts to foster a dual sense of community and honorable behavior. Is this stated purpose sufficient, too vague, etc.?

2. It is hoped that consensus about purpose can be reached. If so, then the next question would be, "Does our existing code serve the agreed upon purpose?" The committee notes at least two previous points of contention:

- a. The nontoleration clause – for instance the surveys show that many students see violations but do not report them.
- b. There is not enough student input and control.

If the sense of the ensuing discussion is that the current code is not serving the purpose agreed upon we suggest that the present University Academic Code of Honor Committee propose the appropriate modifications to the council at a subsequent meeting.

Respectfully submitted for the committee,

Morton S. Fuchs
Professor of Biological Sciences

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University Committee on Libraries October 29, 1992

The meeting was called to order at 4 p.m. in the office of the Director of Libraries by the chairman, Robert Scheidt. Also in attendance were Maureen Gleason, James Kohn, Robert Miller, Michael Morris, Donald Sniegowski and secretary Melodie Eiteljorge.

The minutes of the meeting of September 17 were approved as written.

Robert Miller reported that the University Libraries' Advisory Council will meet on Friday, November 13, and that committee members are welcome to participate in any or all of the sessions. The focus of this year's meeting will be the Science and Engineering libraries. Committee members are also welcome to attend the morning and/or afternoon session(s) of a Library Administrators and Managers Group retreat on Wednesday, November 4, at the Queen Anne Inn. Those who are available to attend lunch should contact the secretary by Monday.

Maureen Gleason distributed a document she had prepared titled "Resources for Science and Engineering." She began by suggesting, "Efforts to confront and deal with the problem of providing necessary library resources for Science and Engineering should proceed in several stages, leading to a plan of action." Some background material distributed with her document included samples of a survey used at Cornell and a use study done at the University of Georgia. Conducting a survey or use study at Notre Dame would be only a first step in determining needs and priorities. Beyond the rising costs of serials, there are budget restraints for monographs and electronic products. Problems are long-range and complex and will require awareness and cooperation among faculty and administrators if any real progress is to be made.

Donald Sniegowski asked what Notre Dame has done thus far to offset rising serial costs. Gleason replied that two years ago we undertook a serials review and made some cuts. Last year we concentrated on cutting very expensive titles. Miller added that libraries may need to "more finely tune" what they collect. At this time there is no real coordinated effort among institutions to share collection responsibilities, but within Indiana there has been much discussion. There have been numerous cancellations throughout the state over the past few years, but there has been no coordination beyond the exchange of cancellation lists. We could save money by cancelling approval plans, but the effectiveness and convenience of approval plans seem to warrant their cost.

Miller reported that he has submitted a proposal to the Office of University Computing for a grant through their Unit

Specific Requisite Program. This is for the acquisition of NOTIS' INFOBASE, which is preloaded and uses a relatively small amount of storage space.

Miller next distributed a draft "Resolution" outlining steps to address problems affecting the ability of the libraries to meet the information needs of the Notre Dame community. This document included the commitment for a survey/study such as that proposed by Gleason. Problems are not limited to science and engineering, although they are the most affected areas at this time.

There was a discussion of library involvement in proposals for substantive changes in courses, establishing new programs or research centers, appointing new tenured or tenure-track faculty or establishing new endowed positions. It was agreed that a library component should be incorporated into such proposals.

It was decided that both of the above documents should be reviewed by committee members for further discussion at the next meeting, which was scheduled for December 3, 4 p.m. in the office of the Director of Libraries. There being no further business, the meeting adjourned at 5:30 p.m.

Respectfully submitted,

Melodie Eiteljorge
Secretary

December 3, 1992

The meeting was called to order at 4 p.m. in the office of the Director of Libraries by the chairman, Robert Scheidt. Also in attendance were Harvey Bender, Maureen Gleason, James Kohn, Robert Miller, Michael Morris, Dan Sheerin, Donald Sniegowski and secretary Melodie Eiteljorge.

The minutes of the meeting of October 29 were approved as written.

Robert Miller distributed the December edition of Access, which contains an article on "Rethinking the Library."

Robert Scheidt asked if the fact that the dollar has gotten stronger will help in this year's budget. Maureen Gleason replied that most invoices have already been paid and that it is difficult to tell if there will be any benefit. Scheidt asked about the projection for next year. Gleason replied that invoices are not received until summer and that it's too soon to make predictions; she is still concerned about this year. Miller added that we may have a deficit this year in serials and that he should know by January if such a deficit would have to be covered from this year's budget.

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Miller reported that the new engineering/architecture librarian, Sheila Curl, met with the Advisory Council on November 13 and began work on November 16.

The Hesburgh Library will be open 24 hours a day during the exam period, December 13-17. The success of this will be monitored.

The Library Administrators and Managers Group (LAM) held a Strategy Day on November 4. Topics included the Library in the Year 2000 and 1993-94 Objectives. (A list of objectives identified was distributed to the committee.) Subsequent to Strategy Day, LAM members were given a half day presentation on Total Quality Management (TQM) by Bob King. There will be a pilot program on TQM beginning on December 17. The training for the pilot is a donation to the University, and participation is voluntary.

Miller also announced that in the spring of '93 the libraries will kick-off a year-long celebration of the acquisition of a two millionth volume and the 30th anniversary of the Hesburgh Library, under a combined theme of "Two Million and Thirty Reasons to Celebrate." There will be a dinner in the spring of '93 to commemorate the two millionth volume, along with several programs involving some outside speakers. The theme for programs throughout the 1993-94 fiscal year will be the combined celebration, culminating with another dinner in the spring of '94 to focus on the 30th anniversary. The Advisory Council is considering a donation to underwrite the program.

Miller asked if there had been any questions or comments from colleagues. Dan Sheerin reported that someone asked why it is not possible to enter interlibrary loan requests over the PC network. Miller replied that this will be partially initiated next year with the implementation of PACLINK among members of the State University Library Automation Network (SULAN). An expanded electronic mail system has been discussed and is desired, but we do not presently have sufficient staff time to do the development work.

Among duplicate subscriptions canceled in last spring's serials cut were some biochemistry journals, previously held in both the Chemistry/Physics library and the Life Sciences library, with the remaining subscriptions split between the libraries. Apparently, the disposition of these subscriptions was misunderstood. Strong objections to the cancellations of the Chemistry/Physics subscriptions have been expressed. Consequently, Gleason has asked representatives of the Biology and Chemistry Departments to suggest a solution, and for the dean's office to approve the decision. She has asked for a joint decision on this before December 10. It is preferred that only one subscription to each title be retained at the most appropriate location.

OLD BUSINESS:

Miller distributed a revised version of the Resolution presented at the last meeting. After some discussion, this document was unanimously approved and will be appended to the minutes.

Miller suggested that there is a "flip side" to the issue of acquiring material. There is no systematic system for canceling journals when faculty members in a specialized discipline leave the University. Scheidt pointed out that this happens automatically to some degree when objections are called for in cutting serials. Miller noted that in some areas historical literature is more important than in others.

Gleason distributed a draft survey on use and needs, which was largely based on a Cornell study but is much shorter. She asked that committee members review the draft for discussion at the next meeting.

Harvey Bender asked about the possibility of a Program of Library Science at Notre Dame. Gleason replied that a formal program is not feasible and that Indiana University at South Bend offers a library science program. Several institutions have recently cut their library science programs.

Miller reported that Father Malloy met with the library faculty on December 2 and discussed a number of issues. Miller also reported that the Provost's Advisory Committee has been expanded, but library representation is still not a component. This is in spite of the fact that the first recommendation of the Colloquy's Committee on Academic Life was that the libraries be involved in academic planning at all levels. Another planning body is also being considered, but it, too, apparently lacks library representation.

The library Christmas party/luncheon is scheduled for December 16 from 11:30 a.m. to 2 p.m. Committee members are welcome to attend.

There being no further business, the meeting adjourned at 5:15 p.m. The next meeting is scheduled for January 7, 4 p.m.

Respectfully submitted,

Melodie Eiteljorge
Secretary

RESOLUTION

WHEREAS a number of factors are drastically affecting the ability of the University Libraries to meet the information needs of the Notre Dame community, especially those engaged in research and graduate studies; these factors include:

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- the expansion of academic programs at the University;
- the addition of significant numbers of new faculty;
- the proliferation of print materials;
- the escalation of prices especially for serials;
- the major decline in the value of the dollar on foreign exchanges;
- the increasing importance of electronic media and services;
- the growing pressure on both processing and service activities within the University Libraries;

WHEREAS few current individual academic programs at the graduate level are perceived to be adequately funded;

WHEREAS an increasing number of external reviews of graduate programs are commenting negatively on the libraries' resources and financing;

WHEREAS increasing numbers of complaints on the inadequacies of library resources and services are being addressed formally and informally to the University Libraries;

THEREFORE, the University Committee on Libraries urges the director and his staff to take immediate steps to bring the seriousness of these problems to the attention of the University community — both the administration and the faculty — and to initiate a process with all individual academic units to identify needs and priorities;

IN ADDITION, the committee recommends:

- that any proposals for new programs offered for approval at the college or University level include a statement of additional information resources required for the program, to be prepared and jointly approved by the libraries and the appropriate department chair;
- that the approval of new programs at any level be contingent on new base funding to meet the needs presented in the program proposal;
- that the University provide funding for critically needed additions to library staffing at both faculty and staff levels to meet the increasing processing and service demands on the University Libraries; and

FINALLY, the committee commits itself to undertake with the director of libraries and the libraries' staff an in-depth study of the budget structure and allocation process to ensure that available financial resources are utilized to best advantage of the entire community.

Considered and approved by the University Committee on Libraries at its meeting of December 3, 1992, with copies to be forwarded to the president, provost and chair of the Faculty Senate.

Faculty Board in Control of Athletics

September 15, 1992

In attendance: Rev. E. William Beauchamp, C.S.C., chair; Professor Paul Conway; Professor JoAnn Della Neva; Dr. Kathleen Halischak, recorder; Professor George Howard; Professor David Hyde; Professor David Kirkner; Professor Patricia O'Hara; Mr. Richard Rosenthal. Absent: Dean Fernand Dutile, Mr. Thomas Gorman, Dr. Roland Smith.

The meeting was called to order at 4:22 p.m. The minutes of the June 22, 1992, meeting were accepted.

1. Father Beauchamp asked that the written vote count for the request of a fifth year of eligibility for Korey Wroblewski in Baseball be incorporated as an official part of the board minutes. The request for a fifth year was approved.
2. Father Beauchamp presented for board consideration the following captain for the 1992-93 academic year: Andy Zurcher in Men's Tennis. The board approved the recommendation for captain.
3. Father Beauchamp presented for board consideration the recommended schedules for the following sports: Women's Basketball, Men's Basketball, Women's Swimming, Men's Swimming, Women's Golf, Men's Golf, Women's Tennis, Men's Tennis, Women's Cross Country, Men's Cross Country. The board unanimously recommended the approval of the schedules for the sports listed above.
4. The board engaged in a discussion concerning athletic events scheduled on study days prior to final exams. It was the consensus of the board (1) that the Thursday and Friday study days be regarded as class days and, therefore, countable under the class absence policy; and (2) that athletic competitions not be scheduled on the Saturday and Sunday study days.
5. Father Beauchamp provided the board with an update of the workings of the Colloquy subcommittee on Finances, Athletics and University Relations, and he encouraged board members to meet with the Colloquy task force on Athletics as the members gather information for recommendations.
6. Mr. Rosenthal provided the board with additional information regarding the NCAA investigation of Demetrius DuBose. Mr. Rosenthal also spoke about the return of Monty Williams to Men's Basketball.

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

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October 7, 1992

In attendance: Rev. E. William Beauchamp, C.S.C., chair; Professor JoAnn Della Neva; Dean Fernand Dutile; Mr. Thomas Gorman; Dr. Kathleen Halischak, recorder; Professor George Howard; Professor David Hyde; Professor David Kirkner; Professor Patricia O'Hara; Mr. Richard Rosenthal; Dr. Roland Smith. Absent: Professor Paul Conway.

The meeting was called to order at 9:42 a.m. The minutes of the September 15, 1992, meeting were accepted.

1. Father Beauchamp announced that he had just received written reports from the Colloquy subcommittee on Athletics. He will send copies to the board members and would like the board to discuss them in a meeting to be held within a few weeks.

2. Father Beauchamp presented for board consideration the recommended schedules for the following sports: Softball, Men's Indoor Track, Women's Indoor Track, Men's Outdoor Track and Women's Outdoor Track. The board unanimously recommended the approval of the schedules for the sports listed above.

3. Dr. Halischak brought to the board's attention several issues regarding fifth-year eligibility, in particular, the academic plans of those requesting additional eligibility. She pointed out the necessity of each applicant to present a valid academic plan for the additional year. Father Beauchamp asked Dr. Halischak to prepare an application form that would include all pertinent questions and to present the application to the board for consideration at a future meeting.

4. Dr. Halischak and Mr. Rosenthal began a discussion about class scheduling for student-athletes. Mr. Rosenthal pointed out the difficulties caused by conflicts between team practice and late afternoon/early evening class review sessions or films, noting that athletes are always released from practice to attend such events. Dr. Halischak asked if early classes for student-athletes would allow practice to begin earlier and thereby eliminate the problem. Mr. Rosenthal answered that certainly early classes would make a tremendous difference. The board then began a discussion on the feasibility of early classes for student athletes. Board members noted that athletes would have to have special registration periods that may not be viewed favorably by other students or by the faculty. Other board members thought that perhaps faculty would alter their review sessions for those classes in which athletes were enrolled. Others disagreed. Board members agreed to talk with other faculty about the matter and to resume discussion at a future meeting.

The meeting was adjourned at 11:05 a.m.

October 26, 1992

In attendance: Rev. E. William Beauchamp, C.S.C., chair; Professor Paul Conway; Professor JoAnn Della Neva; Dean Fernand Dutile; Mr. Thomas Gorman; Dr. Kathleen Halischak, recorder; Professor George Howard; Professor David Hyde; Professor David Kirkner; Professor Patricia O'Hara; Mr. Richard Rosenthal; Dr. Roland Smith.

The meeting was called to order at 8:38 a.m. The minutes of the October 7, 1992, meeting were accepted.

1. Father Beauchamp announced that the purpose of the meeting was to discuss the report and recommendations of the Colloquy subcommittee on Athletics, in particular, the recommendations regarding the Faculty Board. The board discussed five principal topics: (a) the name of the board, (b) the responsibilities of the board, (c) the scope of responsibilities of the board, (d) the constituency of the board, and (e) the propriety of free football tickets and bowl trips for board members.

(a) The Colloquy subcommittee recommended that the board change its name to reflect more accurately its role, noting that the board was not "in Control of Athletics," but was an advisory committee to the president. After a brief discussion, board members agreed that they preferred the title "Faculty Board on Athletics."

(b) As to the question of whether or not the board should be an advisory committee empowered to make recommendations or be a sounding board for the executive vice president, the board unanimously held that an advisory board would be far preferable. Professor Howard and Dean Dutile noted that a board with advisory powers may be more of a benefit to both the faculty and to the athletic administration.

(c) As to the scope of responsibilities, the board agreed with the findings of the Colloquy that the current definition was too broad and ambiguous. Both Professor Conway and Dr. Halischak stated that clarity regarding the responsibilities was a key issue, i.e., should the board deal with a wide range of athletic issues or should its focus be principally on the academic side of athletics. Dean Dutile, Professor Howard and Professor O'Hara argued that the board's jurisdiction should be broad but with a heavy emphasis on academic components. Professor O'Hara voiced concern about a faculty board making operational decisions for the Athletic Department. Noting that a system of checks and balances was already in place, Professor O'Hara argued that the executive vice president should have discretion to bring those issues before the board. Mr. Rosenthal pointed out that if the board were expanded in number confidentiality becomes a problem. As the board continued to discuss the issue, the consensus became that the primary focus of the board

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should be academics with the executive vice president reserving the right to bring other issues to the board's attention.

(d) Having ascertained that the principal focus of the board should be "all matters pertaining to the academic components and implications of intercollegiate athletics and policies," the board then began to discuss the constituency issue. As the board is presently constituted, the executive vice president chairs the committee. The vice president of Student Affairs and the Athletic Director are the other two *ex officio* members. There is one elected member from each of the undergraduate colleges (AL, BA, EG, SC) and one from the Law school. The rest of the board is made up of one student appointed by the president and three faculty members appointed by the president, for a total of 12 members.

Most of the discussion centered around the faculty appointments. It was noted that in the past an appointment was given to a non-faculty member and that currently two of the appointments are held by administrators. Professor O'Hara pointed out that with the exception of Mr. Rosenthal and Mr. Gorman, the rest of the board has faculty status and meets the criterion for appointment to the board. Professor Della Neva noted, however, that only five of the 12 members are elected by the faculty and only six are from the research and teaching faculty. She argued that board appointments should be given to members of the research and teaching faculty as opposed to faculty whose principal duties are administrative, noting that both Dr. Halischak and Dr. Smith are administrators. Professor Della Neva pointed out that as the "Faculty Board," the majority of the members should be research and teaching faculty and that an "at-large" appointment could be designed for members of the library or professional specialist faculty. She noted that Dr. Halischak's presence on the board was more in her role of director of Academic Services for the student-athletes than as a faculty member. This led the board to a discussion of whether or not director of Academic Services should be included as a board member. Professor Della Neva also questioned the voting privilege of the athletic director on the board. Dean Dutile and Professor O'Hara stated that if the athletic director were not an integral part of the board, the board itself would soon be marginalized and rarely consulted.

Three possible alternative models for board constituency were presented: Dean Dutile proposed a model that would reduce the board to 10 members by eliminating two of the three appointed faculty positions and making the director of Academic Services a non-voting resource person for the board. Professor Hyde proposed a model which would add the director of Academic Services as an *ex officio* member of the board, thereby increasing the board number to 13. Fa-

ther Beauchamp proposed reducing the three faculty appointments to two and adding the director of Academic Services as an *ex officio* member, thereby keeping the board number at 12. In that no consensus was reached, Father Beauchamp asked for a vote on keeping the constituency of the present board with revisions in the faculty appointments, i.e., these positions be filled by members of the research and teaching faculty. Dean Dutile noted that any change to the board would have to be presented at and approved by the Academic Council. Both Mr. Rosenthal and Professor Hyde spoke to the issue of keeping the board as it is currently constituted. The board voted in favor of Father Beauchamp's proposal.

(e) The board briefly discussed the question of football tickets and bowl trips for board members. After a very brief discussion, the consensus was to continue the current policy.

2. Mr. Rosenthal explained the Bowl Alliance and the possibilities for Notre Dame playing in one of the four following bowls: Orange, Cotton, Sugar or Fiesta. Mr. Rosenthal stated if Notre Dame wins at least seven games we would be invited to one of these bowls. Based on Notre Dame's win/loss record and on the records of the other schools in the alliance, Notre Dame would receive an offer on Saturday, December 5. He stated that if we have won the requisite number of games, we would likely accept the first invitation.

3. Dr. Smith asked that the board renew its efforts to meet with coaches and be kept informed of developments within their programs.

The meeting was adjourned at 10:35 a.m.

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November 2, 1992

In attendance: Rev. E. William Beauchamp, C.S.C., chair; Professor Paul Conway; Professor JoAnn Della Neva; Dr. Kathleen Halischak, recorder; Professor George Howard; Professor David Hyde; Professor David Kirkner; Professor Patricia O'Hara; Dr. Roland Smith. Absent: Dean Fernand Dutile; Mr. Thomas Gorman; Mr. Richard Rosenthal.

The meeting was called to order at 4:07 p.m. The minutes of the October 26, 1992, meeting were accepted.

1. Professor Howard asked to reconsider the issue of board constituency from the last meeting. He stated that his understanding of Father Beauchamp's final proposal was different than that recorded in the minutes in that he believed the position of director of Academic Services was to be included as an *ex officio* member. Other board members agreed. The board then engaged in a discussion regarding the inclusion of the director of Academic Services as a *ex officio* member of the board. The consensus was to recommend that this position be included on the board. The board could not reach consensus as to whether or not the appointed faculty positions should be two or three in number and whether or not they should be from the regular faculty or from the research/teaching and library faculty.

2. Father Beauchamp presented for board consideration the recommended schedules for the following sports: Women's Fencing and Men's Fencing. The board unanimously recommended the approval of the schedules for the sports listed above.

3. Father Beauchamp brought to the attention of the board the growing problem of the selling of faculty football tickets to travel agents and scalpers. He made it clear to the board he was not talking about tickets exchanged by faculty among friends or other faculty members. He referred specially to those tickets which end up in the hands of travel agents and scalpers. Father Beauchamp mentioned that no letter of notice has been sent to these faculty members. Professor Howard stated that a letter should be sent to let the faculty know that their tickets are being scalped and that the University is aware of it. Professor Hyde stated that the faculty should be held responsible for their use of football tickets. Professor O'Hara believed that a friendly letter should be sent now to those faculty members who have scalped tickets this year and a letter should accompany next year's tickets reminding faculty that tickets are provided at reduced prices for use by them and their families. The board concurred and further agreed that if faculty continue to sell their tickets to travel agents and scalpers, they should have their tickets revoked.

The meeting was adjourned at 4:55 p.m.

December 11, 1992

In attendance: Professor Paul Conway; Dean Fernand Dutile; Professor George Howard; Professor David Hyde; Professor David Kirkner; Mr. Richard Rosenthal; Dr. Roland Smith. Absent: Rev. E. William Beauchamp, C.S.C., Professor JoAnn Della Neva; Mr. Thomas Gorman; Dr. Kathleen Halischak; Professor Patricia O'Hara. Guest: Melissa Conboy.

The meeting was called to order at 2:08 p.m. In the absence of Father Beauchamp, Mr. Rosenthal chaired the business section of the meeting.

1. The board voted to approve officially the monograms for football, cross country, trainers, cheerleaders and managers. At the last meeting a quorum was not present for the vote, so it was brought to the board for a vote at this meeting. The board recommended approval for the monograms. The list is attached to these minutes and hereby incorporated by reference as an official part of the board minutes.

2. Mr. Rosenthal presented recommendations for monogram awards for the following sports: Men's Soccer and Women's Soccer. The board recommended approval for the monograms. The list is attached to these minutes and hereby incorporated by reference as an official part of the board minutes.

3. Mr. Rosenthal presented for board consideration the following captain for the 1993-94 academic year: Mike Palmer in Men's Soccer. The board approved the recommendation for captain.

4. Mr. Rosenthal presented for board consideration the recommended schedule for the following sport: Baseball. The board recommended the approval of the schedule, but expressed concern over games played on the study days at the end of the semester and asked that this concern be conveyed to the coach. A complete list of this schedule is attached to these minutes and hereby incorporated by reference as an official part of the board minutes.

5. Dean Dutile expressed concern to Ms. Conboy (associate athletic director) regarding the NCAA volleyball tournament schedule. He cited the disruption to classes caused by this event. He moved a resolution that Ms. Conboy convey the Faculty Board's concern to the MCC conference committee, which would in turn convey it to the NCAA. The board adopted the resolution unanimously.

6. Ms. Conboy reviewed upcoming NCAA legislation proposals and the University positions on 29 important issues for the January NCAA convention in Dallas, Texas.

The meeting was adjourned at 3:45 p.m.

The Graduate School Research Division

Current Publications and Other Scholarly Works

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

Errata: Correction on entry in *Notre Dame Report* Issue No. 7, citation listed under Chemistry and Biochemistry should have been listed under Radiation Laboratory:

George, Manapurathu V.

D. Ramaiah, K. Ashok, R. Barik, D. Venugopal, N.P. Rath, K. Bhattacharyya, P.K. Das and M.V. George. 1992. Interesting Phototransformations of Aziridylmaleates and Fumarates. Steady-State and Laser Flash Photolysis Studies. *Journal of Organic Chemistry* 57(22):6032-6037.

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Dorris, Ronald

R. Dorris. 1992. Self-Evident Truth Holders and Scapegoats: Theoretical Democracy as a Dichotomy of Americanization. *The Griot* 11(1):18-28.

Anthropology

DaMatta, Roberto A.

R.A. DaMatta. 1992. L'interdisciplinarite dans Une Perspective Anthropologique: Quelques Reflexions de Travail. Pages 57-76 in, E. Portella, ed., *Entre Savoir: Interdisciplinarite: Enjeux, Obstacles, Resultats*. Eres., Paris, France.

Sheridan, Susan G.

S.G. Sheridan, J.L. Mobley-Tanaka, D.P. Van Gerven and W.L. Shields. 1992. A Case of Prehistoric Mutilation on the Northwest Plains. *Plains Anthropologist* 37(141):289-298.

Art, Art History and Design

Adcock, Craig E.

C.E. Adcock. 1992. Documenta IX. *Tema Celeste* (37-38):84-86.

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Kinsey, Marjorie S.

M.S. Kinsey. 1992. Review of Her Art Works: An Exhibition Celebrating Twenty Years of the National Women's Caucus for Art. *New Art Examiner* 20(4):31-32.

Economics

Dutt, Amitava K.

A.K. Dutt. 1992. Review of International Perspectives on Profitability and Accumulation. F. Moseley and E.N. Wolff, eds., *The Manchester School of Economic and Social Studies* 60(4):436-437.

Mirowski, Phillip E.

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P.E. Mirowski. 1992. What were Von Neumann and Morgenstern Trying to Accomplish? Pages 113-147 in, E.R. Weintraub, ed., *The History of Game Theory*. Duke University Press, Durham, North Carolina.

English

O'Rourke, William A.

W.A. O'Rourke. 1992. Letters to Editors: The NEA and the Loyalty Oaths. *Another Chicago Magazine* Fall(24):194-209.

W.A. O'Rourke. 1992. Review of The Last Studebaker, by R. Hemley. *South Bend Tribune* (Oct. 18):F9.

Government and International Studies

McAdams, A. James

C. Black, J. Helmreich, P. Helmreich, C. Issawi and A.J. McAdams. 1992. *Rebirth: A History of Europe Since World War II*. Westview, Boulder, Colorado. 565 pp.

History

Nugent, Walter

W. Nugent. 1992. *Crossings: The Great Transatlantic Migrations, 1870-1914*. Indiana University Press, Bloomington, Indiana. xvi + 234 pp.

Walicki, Andrzej S.

A.S. Walicki. 1992. *Legal Philosophies of Russian Liberalism*. Notre Dame Press, Notre Dame, Indiana. 487 pp.

Philosophy

Watson, Stephen H.

S.H. Watson. 1992. *Extensions: Essays on Interpretation, Rationality and the Closure of Modernism*. State University of New York Press, Albany, New York. vii-viii + 3-347 pp.

S.H. Watson. 1992. Paul Ricoeur. Pages 1099-1100 in, L.C. Becker, ed., *Encyclopedia of Ethics*. Garland Publishing, New York, New York.

The Graduate School Research Division

Program of Liberal Studies

Nicgorski, Walter J.

W.J. Nicgorski. 1992. American Pluralism: A Condition or a Goal? Pages 15-37 in, F.C. Power and D.K. Lapsley, eds., *The Challenge of Pluralism: Education, Politics and Values*. University of Notre Dame Press, Notre Dame, Indiana.

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Douthwaite, Julia V.

J.V. Douthwaite. 1992. Embattled Eros: The Cultural Politics of Pré vost's *Grecque Moderne*. *L'Esprit Créateur* 32(3):87-97.

Sociology

Christiano, Kevin J.

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Theology

Duffy, Regis A.

R.A. Duffy. 1992. Devotio Futura: The Need for Post-Conciliar Devotions? Pages 163-183 in, M. Downey and R. Fragomeni, eds., *A Promise of Presence*. Studies in Honor of David N. Power, O.M.I. Pastoral Press, Washington, D.C.

Gerhart, Mary

M. Gerhart. 1992. Genre Choices, Gender Questions. University of Oklahoma Press, Norman, Oklahoma. xiv + 267 pp.

Porter, Jean

J. Porter. 1992. Rethinking Religious Classics: Aquinas and Public Disputation. *Christian Century* 109(35):1100-1103.

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J.C. VanderKam. 1992. Righteous One, Messiah, Chosen One and Son of Man in 1 Enoch 37-71. Pages 169-191 in, J.H. Charlesworth, ed., *The Messiah: Developments in Earliest Judaism and Christianity*. Fortress Press, Minneapolis, Minnesota.

Yoder, John H.

J.H. Yoder. 1992. On Not Being Ashamed of the Gospel: Particularity, Pluralism and Validation. *Faith and Philosophy* 9(3):285-300.

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Biological Sciences

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C.F. Bosio, R.E. Thomas, P.R. Grimstad and K.S. Rai. 1992. Variation in the Efficiency of Vertical Transmission of Dengue-1 Virus by Strains of *Aedes albopictus* (Diptera: Culicidae). *Journal of Medical Entomology* 29(6):985-989.

Rai, Karamjit S.

See under Grimstad, Paul R. 1992. *Journal of Medical Entomology* 29(6):985-989.

Chemistry and Biochemistry

Blasquez, Veronica C.

V.C. Blasquez, M.A. Hale, K.W. Trevorow and W.T. Garrard. 1992. Immunoglobulin κ Gene Enhancers Synergistically Activate Gene Expression but Independently Determine Chromatin Structure. *Journal of Biological Chemistry* 267(33):23888-23893.

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W. Cen, K.J. Haller and T.P. Fehlner. 1992. Clusters as Ligands. Stabilization of a Co Core in $[\mu_3\text{-Co}(\text{CO})_3]\text{Cd}_3\{\mu_3\text{-}[(\text{CO})_2\text{Co}_3(\mu_3\text{-COO}_2)]_3(\text{THF})_3\}$. *Organometallics* 11:3499-3501.

X. Meng and T.P. Fehlner. 1992. Preparation of Dinuclear and Trinuclear Ferraboranes, $\text{Fe}_2(\text{CO})_6\text{B}_2\text{H}_6$ and $\text{Fe}_3\text{H}(\text{CO})_{10}\text{BH}_2$. *Cluster and Cage Compounds Containing Transition Metals* 269-273.

X. Meng and T.P. Fehlner. 1992. Preparation of the Metal- and Hydrogen-Rich Ferraborane $\text{Fe}_3\text{H}(\text{CO})_9\text{BH}_4$. *Cluster and Cage Compounds Containing Transition Metals* 273-275.

The Graduate School Research Division

Schuler, Robert H.

See under RADIATION LABORATORY; Pimblott, Simon M.
1992. *Journal of Physical Chemistry* 96:7839-7841.

Physics

Aprahamian, Ani

A. Aprahamian. 1992. El Transitions in ^{168}Er . *Physical Review C* 46(5):2093-2095.

Biswas, Nripen N.

T. Alexopoulos, N.N. Biswas, V.P. Kenney, J.M. LoSecco, et al. 1992. Hyperon Production from Proton-Antiproton Collisions at $\sqrt{s} = 1.8$ TeV. *Physical Review D* 46(7):2773-2786.

Garg, Umesh

R.L. Kozub, C.R. Bybee, M.M. Hindi, J.F. Shriner, Jr., R. Holzmann, R.V.F. Janssens, T.-L. Khoo, W.C. Ma, M.W. Drigert, U. Garg and J.J. Kolata. 1992. Yrast Decays in ^{43}K . *Physical Review C* 46(5):1671-1676.

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See under Biswas, Nripen N. 1992. *Physical Review D* 46(7):2773-2786.

Kolata, James J.

See under Garg, Umesh. 1992. *Physical Review C* 46(5):1671-1676.

LoSecco, John M.

See under Biswas, Nripen N. 1992. *Physical Review D* 46(7):2773-2786.

COLLEGE OF ENGINEERING

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Corona, Edmundo

T. Hassan, E. Corona and S. Kyriakides. 1992. Ratcheting in Cyclic Plasticity, Part II: Multiaxial Behavior. *International Journal of Plasticity* 8:117-146.

Huang, Nai-Chien

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