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# Notre Dame

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# R E P O R T

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July 31, 1992

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1991-92

# The University

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## Opening Mass

The Mass to celebrate the formal opening of the 1992-93 academic year will be held Sunday, August 30, at 10 a.m. in the Basilica of the Sacred Heart. The presiding celebrant will be Rev. Edward A. Malloy, C.S.C., University president, and the homilist will be Provost Timothy O'Meara.

## President's Brunch for New Faculty

The president will host a brunch for new faculty members in the North Dining Hall immediately following the Opening Mass, at approximately 11:30 a.m.

# Faculty Notes

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## Honors

**Ruthann K. Johansen**, assistant director of the Core Course, has been appointed a visiting scholar at Harvard University Divinity School for the academic year 1992-93 in order to research and write on the role of narrative in self reconstruction following traumatic brain injury.

**Anthony N. Michel**, McCloskey dean and Freimann professor of electrical engineering, has been appointed a member of the Technical Committee on Dynamical Systems of the International Association for Mathematics and Computers in Simulation. He was reappointed associate editor at large for the IEEE Transactions on Automatic Control for the year 1993. He has been elected a member of the IEEE Control Systems Society Board of Governors for a three year term beginning Jan. 1, 1993.

**Michael K. Sain**, Freimann professor of electrical engineering, received the Outstanding Paper/Presentation Award for "Individualized Problem Assignments: An Answer to a Pedagogical Challenge" co-authored by Patrick M. Sain at the ASEE Illinois/Indiana Regional Conference at the University of Notre Dame, Notre Dame, Ind., March 13-14.

## Activities

**Karl Ameriks**, professor of philosophy, gave a talk on "Kant and the Self: A Retrospective" at the NEH/POROI conference on "Figuring the Self: Subject, Individual, and Person in Classical German Philosophy" at the University of Iowa in Iowa City, Iowa, April 11. He lectured on "A Critical Perspective on the Rehabilitation of Hegelian Ethics" at the Department of Philosophy colloquium at the University of California in San Diego, Calif., May 25. He lectured on "Current Interpretations of Kant on the Self" at the conference "Kant and Contemporary Epistemology" sponsored by the Florence Center for the History and Philosophy of Science in Florence, Italy, May 30.

**Panagiotis J. Antsaklis**, professor of electrical engineering, presented a paper titled "Failure Behavior Identification for a Space Antenna Via Neural Networks" and chaired a session titled "Neutral Networks II" at the 1992 American Control Conference in Chicago, Ill., June 24-26.

**Hafiz M. Atassi**, professor of aerospace and mechanical engineering, presented a paper titled "Numerical Solutions for Unsteady Subsonic Vortical Flows Around Loaded Cascades" at the International Gas Turbine Conference in Cologne, Germany, June 1-4.

**Peter H. Bauer**, assistant professor of electrical engineering, presented the two papers titled "Asymptotic Responses of Floating Point Realizations of Linear Discrete Systems" and "New Criteria for the Absence of Limit Cycles in State Space Digital Filters with Combinations of Quantization and Overflow Nonlinearities" at the 1992 international symposium on Circuits and Systems in San Diego, Calif., May 10. He gave the invited talk "Analyse von Digitalfiltern mit Fließkomma-Arithmetiken" at the Institut für Allgemeine und Theoretische Elektrotechnik, Universität Erlangen - Nürnberg, Germany, June 11. He presented the paper "A Necessary and Sufficient Condition for Robust Stability of Time-variant Discrete Interval Matrix Systems" at the 1992 American Control Conference in Chicago, Ill., June 24.

**Daniel M. Chipman**, professional specialist in the Radiation Laboratory, presented the invited lecture "The Spin Polarization Model for Calculation of ESR Hyperfine Coupling Constants in Organic Free Radicals" at the 1992 IBM Europe Institute Computer Aided Chemistry for Molecular Properties and Molecular Design in Oberlech, Austria, July 8.

**Daniel J. Costello**, chairman and professor of electrical engineering, presented a paper titled "Multi-Level Concatenated Trellis Coded Modulation" at the 1992 IEEE Information Theory Workshop in Salvador, Brazil, June 23.

**James T. Cushing**, professor of physics, delivered the paper "Comments on the Rise of the Standard Model" at the third international conference on the History of Particle Physics held at the Stanford Linear Accelerator Center in Palo Alto, Calif., June 24-27.

**Sr. Elaine DesRosiers, O.P.**, professional specialist and director of Educational Media, has been appointed a Wakonse Fellow following her participation in the Wakonse Conference for College Teaching at Stone Lake, Mich., May 29-June 3. She presented a lecture on the multimedia teaching alternatives available in Notre Dame's new DeBartolo Hall at that conference.

**Jay P. Dolan**, professor of history and director of the Cushwa Center, presented the paper "Ethnicity: Its Impact on the Church" at a symposium on research pertaining to American Catholicism at the St. Paul Seminary, School of Divinity, at the University of St. Thomas in St. Paul, Minn., June 10.

**Mohamed Gad-el-Hak**, professor of aerospace and mechanical engineering, delivered an invited lecture titled "Reactive Control of Turbulent Boundary Layers: A Futuristic View" at the workshop on Active Control: Acoustics, Flows and Vibrations in Lyons, France, July 2-3.

## Faculty Notes

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**Denis Goulet**, O'Neill professor in education for justice, economics, presented a paper on "Development Indicators: A Research Problem, A Policy Problem" to the conference on "The Ethics of Ecodevelopment: Culture, the Environment, and Dependency" sponsored by the International Development Ethics Association and the Universidad Nacional Autonoma de Honduras held in Tegucigalpa, Honduras, June 21-27.

**Eugene W. Henry**, professor of computer science and engineering, presented a paper titled "Computer Networks in Engineering Laboratories" co-authored by **John J. Uhran Jr.**, professor of electrical engineering, at the annual convention of the American Society for Engineering Education in Toledo, Ohio, June 23.

**Gordon L. Hug**, associate professional specialist in the Radiation Laboratory, presented the paper "Quenching of  $^3\text{Ru}(\text{bpy})_3^*$  Covalently Attached to Polyelectrolytes" at the 14th IUPAC Symposium on Photochemistry in Leuven, Belgium, July 19-25.

**Ruthann K. Johansen**, assistant director of the Core Course, presented the paper "Disclosing Dionysus: A Narrative Reconstruction of the 1991 Gulf War" and participated as a panel member in a workshop on the role of narratives in identity formation at the Friends Association for Higher Education at Bryn Mawr College in Bryn Mawr, Pa., June 22.

**Eric J. Jumper**, associate professor of aerospace and mechanical engineering, presented a paper titled "Optical Phase Distortion Due to Turbulent-Fluid Density Fields: Quantification Using the Small-Aperture Beam Technique" at the AIAA Annual Thermophysics Meeting held in Nashville, Tenn., July 6-8.

**John M. LoSecco**, associate professor of physics, gave a talk titled "Testing the MSW Solution to the Solar Neutrino Problem" at the fourth Rencontre de Blois, Particle Astrophysics in Blois, Loire Valley, France, June 19.

**Paul McGinn**, assistant professor of electrical engineering, presented the talk "Zone Melt Processing of High Temperature Superconductors" at the Department of Energy Superconductivity Review in Arlington, Va., June 3. He presented the invited talk titled "The Effect of  $(\text{RE})_2\text{BaCuO}_5$  Additions on Melt Textured  $\text{YBa}_2\text{Cu}_3\text{O}_{6+x}$ " at the international workshop on Superconductivity in Honolulu, Hawaii, June 25. A photomicrograph from the article "The Chemical Stability of  $\text{BaSnO}_3$  in the Melt of  $\text{YBa}_2\text{Cu}_3\text{O}_{6+x}$  During Solidification" by McGinn and his students was chosen for the cover of the May 1992 issue of the journal *Materials Letters*.

**Rev. Ernan McMullin**, O'Hara professor of philosophy, spoke on "The World of the Realist" at the annual Ascension symposium sponsored by the Erasmus Foundation of

Oosterbeek, Holland, May 27-30. He gave a series of seven lectures on "Science and the Humanities" at a summer institute sponsored by the Cleveland Montessori Institute in Cleveland, Ohio, June 29-30 and July 16.

**Anthony N. Michel**, McCloskey dean and Freimann professor of electrical engineering, gave invited lectures on "Qualitative Theory of Dynamical Systems," "Analysis and Synthesis of Artificial Neural Networks" and "Application of Interval Analysis Techniques to Linear Systems" at the Technical University of Vienna, Austria, during May. He lectured at the University of Klagenfurt, Austria, May 20; at the Technical University of Darmstadt, Germany, June 16; and at the University of Wuppertal, Germany, June 17. Michel and Kevin M. Passino presented the paper titled "Stability and Boundedness Analysis of Discrete Event Systems" at the 1992 American Control Conference held in Chicago, Ill., June 24-26. Michel and Miloje S. Radenkovic presented the paper "A Unified Approach to Robust Stochastic and Deterministic Adaptive Control" at that conference.

**Robert C. Miller**, director of libraries, spent the spring 1992 semester as visiting professor at the library school of the University of Warsaw, teaching courses in library management and advanced technology in libraries. He conducted a seminar on issues in American research libraries at the American Studies Center of the university, lectured at the USIS Library, the National Library of Poland and the University of Lodz, and prepared a report for the Association of Research Libraries on the state of the Polish book trade. In addition, he established several publications exchange programs for the University Libraries and arranged a gift of the libraries' superseded IBM 4381 computer from Notre Dame to the National Library.

**Thomas J. Mueller**, chairman and Roth-Gibson professor of aerospace and mechanical engineering, presented a paper titled "The Design of a Subsonic Low-Noise, Low-Turbulence Wind Tunnel for Acoustic Measurements" at the 17th AIAA Aerospace Ground Testing Conference in Nashville, Tenn., July 3-8.

**Robert C. Nelson**, professor of aerospace and mechanical engineering, presented a seminar titled "The Fluid Mechanics of Nonlinear Wing Rock Motion of Slender Wings" at NEAR, Inc. and NASA Ames Research Center in Moffett Field, Calif., June 18-19.

**Teresa Godwin Phelps**, professor of law, gave the seminar titled "Legal Writing: Editing and Supervision" for the Council for Appellate Staff Attorneys in Boston, Mass., June 27.

**Michael K. Sain**, Freimann professor of electrical engineering, attended the IEEE Technical Activities Board Workshop on Financial Planning and the IEEE Governance Meeting in

## Faculty Notes

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New Brunswick, N.J., Jan, 24-25. He reported research results on Clutch System Performance Study to Clark-Hurth Components Co., with Peter H. Bauer, assistant professor of electrical and computer engineering, Joseph M. Powers, assistant professor of aerospace and mechanical engineering, and Kwang-tzu Yang, Hank professor of aerospace and mechanical engineering, in Statesville, N.C., March 10. Sain co-authored with Chang-Hee Won the paper "Cumulant Control Problems, Risk-Sensitivity, and Seismic Disturbances" which was presented by Won at the 10th annual Ohio State University Control Workshop in Columbus, Ohio, April 10. He co-authored with Patrick M. Sain and Billie F. Spencer Jr., associate professor of civil engineering and geological sciences, the paper "Structural Control Design for Stability Robustness in the Presence of Time Delays" which was presented by P.M. Sain at that workshop. Sain co-authored with Hongliang Dai and Spencer the paper "Symmetric Tensor Computation: A Nonlinear Control Application" which was presented by Dai at the workshop. He attended the IEEE Circuits and Systems Society Board of Governors Meeting and Executive Committee Meeting in San Diego, Calif., May 10. He chaired the Dynamical and Control Systems I Session at the International Federation of Automatic Control's Nonlinear Control Systems Design Symposium '92 in Bordeaux, France, June 24-26. He presented the paper "Feedback Control of a Family of Nonlinear Hysteretic Systems" co-authored with Hong Jiang, Patrick M. Sain and Billie F. Spencer Jr. at that symposium.

Jonathan R. Sapirstein, associate professor of physics, presented the invited talk "Theory of Many-electron Atoms" at the Nobel Symposium No. 85 in Saltjobaden, Sweden, June 30.

Robert P. Schmuhl, associate professor of American studies, discussed "Presidential Politics and the Democratic Convention" on "Extension 720" on WGN Radio in Chicago, Ill., July 15.

James H. Seckinger, director of the National Institute for Trial Advocacy and professor of law, presented a paper on "Presenting Expert Testimony" at an advocacy symposium sponsored by the Canadian Bar Association and the Law Society of Upper Canada in Toronto, Canada, May 1-2. During the symposium he served as moderator and critiquer for two demonstrations involving Canadian, American and British barristers, and he participated in a panel discussion on "Television in the Courtroom." He gave the opening remarks at the 43rd annual Advocacy Institute in Ann Arbor, Mich., May 15-16. He gave a series of lectures to law faculty, judges and practitioners on "Effective Teaching Techniques and the NITA Method of Learning by Doing Skills Training" at the University of Panama Law School in Panama City, Panama, May 18-19. Seckinger gave a presentation to the faculty on Effective Teaching Techniques for

the inaugural NITA Southwest Regional Program at the University of New Mexico School of Law in Albuquerque, N.M., May 20. He served as program coordinator and a faculty member for the NITA/McCarthy Tetrault Law Firm Trial Witness Examination Program in Montreal, Quebec, Canada, June 11-13. He gave a lecture to the faculty on Effective Teaching Techniques, and a lecture to the faculty and participants on Examination-in-Chief, Cross Examination, Impeachment, and Rehabilitation. He served as a faculty member for the NITA Teacher Training Program at the Notre Dame Law School, Notre Dame, Ind., June 18-20. He lectured to both the faculty and participants on Effective Teaching Techniques.

Rev. Francis S. Tebbe, O.F.M., associate director and associate professional specialist in the Institute for Pastoral and Social Ministry, conducted a seminar for the Programs for Church Leaders' sabbatical participants titled "Adult Learning Styles" at Notre Dame, Ind., April 30. He was the parliamentarian and process facilitator for the Provincial Chapter of Elections and Affairs of the Franciscan Vice Province of the Holy Savior in Pittsburgh, Pa., May 18-21. He gave a conference for Franciscan Friars titled "Mentoring in Ministry" at Notre Dame, Ind., June 30.

Jay Tidmarsh, associate professor of law, participated in a panel discussion on the Civil Justice Reform Act of 1990 at the annual conference of the Seventh Circuit Bar Association, which is comprised of lawyers and federal judges in Illinois, Indiana and Wisconsin, held in Indianapolis, Ind., May 4. His presentation critiqued the techniques proposed by the Northern District of Indiana to reduce expense and delay in civil actions.

William L. Wilkie, Nathe professor of marketing, and Michael Etzel, professor of marketing, co-chaired the American Marketing Association's Outstanding Doctoral Dissertation Competition for 1992. Awards will be announced at the national conference in August. Wilkie was an invited participant in the "Workshop on Research Priorities" at the Marketing Science Institute in Cambridge, Mass., Jan. 22. He delivered invited talks on "Corporate Social Policy" and on "Knowledge Development in Marketing Academia" at the Winter Educators Conference of the American Marketing Association in San Antonio, Tex., Feb. 16-17. He presented an invited address on "Priority Research Needs in Public Policy" at the Marketing and Public Policy Conference in Washington, D.C., May 16. Wilkie was an invited participant in the "Workshop on New Concepts in Marketing Research" at the Marketing Science Institute in Cambridge, Mass., June 23-24.

## Addendum to the Faculty Roster

### Fall 1991 Faculty

The following faculty members came to the University during the 1991 fall semester and were not included in *Notre Dame Report #4*:

MARCO ANDREATTA, *Visiting Assistant Professor of Mathematics*. Ph.D., Univ. of Trento, Italy, 1981. (1986, 1991)

EDOARDO BALLICO, *Visiting Professor of Mathematics*. Laurea, Univ. of Pisa, 1977; these d'Etat, Univ. of Nice, 1983. (1991)

GEOFFREY J. BENNETT, *Adjunct Professor in the London Law Program*. B.A., St. Catharine's College, 1974; M.A., *ibid.*, 1978. (1991)

KRZYSZTOF BOBROWSKI, *Associate Professional Specialist in the Radiation Laboratory*. M.Sc., Warsaw Univ., 1972; Ph.D., Institute of Nuclear Research, 1976; D.Sc., Lodz Technical Univ., 1991. (1991)

ROMAN J. BONCZEK, *Assistant Professor of Aerospace Studies*. B.A., College of St. Thomas, 1980; M.A., Univ. of San Francisco, 1990. (1991)

CLIFFORD C. BOWMAN, *Adjunct Instructor in the London MBA Program*. B.A., Univ. of Liverpool, 1971; M.B.A., *ibid.*, 1973. (1991)

BARBARA LADNA, *Assistant Faculty Fellow in Chemistry and Electrical Engineering*. M.S., Technical Univ. of Warsaw, 1978; Ph.D., Univ. of Notre Dame, 1983. (1991)

EWAN G. MCKENDRICK, *Adjunct Associate Professor in the London Law Program*. L.I.B., Univ. of Edinburgh, 1982; B.C.L., Pembroke College, Oxford, 1984. (1991)

KAREN L.K. MILLER, *Adjunct Assistant Professor in the London Law Program*. B.A., Lehigh Univ., 1978; J.D., Georgetown Univ., 1984. (1991)

JAMES E. SCHRAGER, *Adjunct Instructor in Management*. B.A., Oakland Univ., 1971; M.B.A., Univ. of Colorado, 1975; C.P.A., State of Illinois, 1975; J.D., DePaul Univ., 1979. (1991)

KATHRYN SURACE-SMITH, *Adjunct Assistant Professor in the London Law Program*. B.A., Princeton Univ., 1981; J.D., Columbia Univ., 1985. (1991)

### Spring 1992 Faculty

The following faculty members came to the University during the 1992 spring semester and were not included in *Notre Dame Report #4*:

CLAUDIA L. BAYLISS, *Adjunct Instructor in the Freshman Writing Program*. B.A., Kalamazoo College; M.A., Univ. of Notre Dame, 1979. (1992)

LARRY G. BELL, *Visiting Assistant Professor of Chemistry and Biochemistry*. B.A., Ashland Univ., 1964; M.S., Miami Univ., 1966; Ph.D., Univ. of Michigan, 1972. (1992)

JAY W. BRANDENBERGER, *Assistant Professional Specialist at the Center for Social Concerns*. B.A., Univ. of Houston at Clear Lake City, 1978; M.A., Univ. of Pittsburgh, 1987; Ph.D., *ibid.*, 1990. (1992)

ROBERT J. BRANDT, *Professional Specialist in Architecture*. B.S., Univ. of Southern Indiana, 1986; M.F.A., Indiana State Univ., 1989. (1992)

JUAN CARLOS MORENO BRID, *Assistant Faculty Fellow in the Helen Kellogg Institute*. B.A., Univ. Nacional Autonoma de Mexico, 1974; M.A., Centro de Investigacion y Docencia Economicas, 1977. (1992)

JORGE SUTIL CORREA, *Visiting Professor of Law*. Licenciado en Ciencias Juridicas, Univ. Catolica de Chile, 1977; L.L.M., Yale Univ., 1982. (1992)

GERD-EBERHARD DETHLOFF, *Visiting Assistant Professor of Mathematics*. Diplom, Georg-August-Univ. of Göttingen, 1987; Vordiplom, *ibid.*, 1984; Doctor, *ibid.*, 1988. (1992)

ROBERT M. FISHMAN, *Associate Professor of Sociology*. B.A., Yale College, 1977; M.A., Yale Univ., 1979; M.Phil., *ibid.*, 1980; Ph.D., *ibid.*, 1985. (1992)

MANUEL A. GLAVE, *Assistant Faculty Fellow in the Helen Kellogg Institute*. B.S., Catholic Univ. of Peru, 1984; M.S., Univ. of Illinois at Urbana-Champaign, 1988. (1992)

MARGARET B. GOLDBERG, *Adjunct Instructor in Management*. B.A., George Washington Univ., 1970; M.B.A., Univ. of Notre Dame, 1992. (1992)

CAROLE HAVENS, *Adjunct Assistant Professor of Law*. B.A., Olivet College, 1977; M.A., Univ. of Notre Dame, 1979; Ph.D., *ibid.*, 1985. (1992)

SHIH-CHI HUANG, *Assistant Faculty Fellow in Electrical Engineering*. B.S., National Chiao-Tung Univ., 1983; M.S., Univ. of Notre Dame, 1988; Ph.D., *ibid.*, 1991. (1992)

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LOWELL K. HULL, *Adjunct Associate Professor of Law*. B.A., Univ. of Illinois, 1967; J.D., *ibid.*, 1971. (1992)

STEPHEN R. KELLOGG, *Adjunct Instructor in Romance Languages and Literatures*. B.A., Univ. of Virginia, 1985; M.A., Univ. of North Carolina, 1989. (1992)

GREGORY A. KIL, *Part-time Adjunct Professor of Architecture*. B.A., Ball State Univ., 1982; M.A., Univ. of Notre Dame, 1987. (1992)

ANGELA M. KNOBLOCH, *Adjunct Instructor in Marketing*. B.S., Illinois State, 1988; M.B.A., *ibid.*, 1990. (1992)

GEORGE C. LANPHERE, *Adjunct Instructor in the Computer Applications Program*. B.S., Wyoming Univ., 1957; M.B.A., Northeastern Univ., 1977. (1992)

FABRICE E. LEHOUCQ, *Assistant Faculty Fellow in the Helen Kellogg Institute*. B.A., Univ. of Pittsburgh, 1984; M.A., Duke Univ., 1986. (1992)

THOMAS F. LEWIS JR., *Adjunct Associate Professor of Law*. B.S., St. Joseph's College, 1960; J.D., Indiana Univ., 1963. (1992)

ANDREW LUMSDAINE, *Assistant Professor of Computer Science and Engineering*. S.B., Massachusetts Institute of Technology, 1984; S.M., *ibid.*, 1986; Ph.D., *ibid.*, 1992. (1992)

ROBERT S. MARTIN, *Adjunct Instructor in Philosophy*. B.A., Northwest Nazarene College, 1982; M.A., Claremont Graduate School, 1986. (1992)

PAUL MEYENDORFF, *Visiting Associate Professor of Theology*. B.A., Trinity College, 1972; M.Div., St. Vladimir's Seminary, 1975; Ph.D., Univ. of Notre Dame, 1987. (1992)

TONIA HAP MURPHY, *Adjunct Instructor in Management*. B.A., Univ. of Notre Dame, 1984; J.D., Univ. of Michigan, 1987. (1992)

REV. RICHARD I. PERVO, *Visiting Professor of Theology*. A.A., Concordia College, 1962; B.A., *ibid.*, 1964; B.D., Episcopal Theological School, 1971; Th.D., Harvard Univ., 1979. (1992)

RICHARD ROSENBERG, *Adjunct Associate Professor of Chemistry and Biochemistry*. B.S., Northwestern Univ., 1971; M.S., Univ. of Illinois, 1974; Ph.D., Univ. of California, 1979. (1992)

MICHAEL SCHNEIDER, *Visiting Professor of Mathematics*. Ph.D., Univ. of Munich, 1968; Habilitation, Univ. of Regensburg, 1974. (1992)

KENNETH P. SERBIN, *Assistant Faculty Fellow in the Helen Kellogg Institute*. B.A., Yale Univ., 1982; M.A., Univ. of California, San Diego, 1988. (1992)

JOSEPH J. TAPAJNA, *Adjunct Instructor of Accountancy*. B.A., Univ. of Notre Dame, 1973; J.D., Indiana Univ., 1976. (1992)

ERIC N. VAN VLIET, *Assistant Professor of Military Science (Army ROTC)*. B.S., Radford Univ., 1983; M.S.A., Central Michigan Univ., 1991. (1991)

SILVIO R. WAISBORD, *Assistant Faculty Fellow in the Helen Kellogg Institute*. Licenciado, Univ. de Buenos Aires, 1985; M.A., Univ. of California, San Diego, 1990. (1992)

JINHAO ZHANG, *Visiting Professor of Mathematics*. B.A., Fudan Univ., 1965. (1992)

# Documentation

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## Faculty Board in Control of Athletics Spring 1992 Summary Minutes

January 23, 1992

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

The meeting was called to order at 4:22 p.m. The minutes of the December 5, 1991, meeting were accepted.

1. Father Beauchamp reported on the NCAA convention and the voting record of the University. He reported specifically on the academic reform package.
2. Father Beauchamp presented for board consideration monogram recommendations for the following groups: Managers and Women's Soccer. The board unanimously recommended approval for the monograms. A complete list of those nominated and approved is attached to these minutes and hereby incorporated by reference as an official part of the board minutes.
3. Father Beauchamp presented for board consideration the following as nominees for captains in Lacrosse: Doug Murray, Chris Nelson, Brian Schirf and Mike Sullivan. The board recommended approval of all nominees for captains of Lacrosse.
4. Father Beauchamp presented for board consideration the following as nominees for captains in Women's Soccer: Michelle Lodyga, Denise Chabot and Margaret Jarc. The board recommended approval of all nominees for captains of Women's Soccer.
5. Father Beauchamp presented a report on the academic performance of student-athletes for the fall 1991 semester including those students achieving a 3.0 GPA or greater and those students failing to maintain academic good standing.
6. Mr. Rosenthal explained to the board the Football Bowl Alliance and Notre Dame's role in it. The board discussed various aspects of the alliance and directed questions to Mr. Rosenthal regarding Notre Dame participation.
7. Professor DellaNeva brought to the board's attention some concerns expressed to her by members of the College of Arts and Letters: (1) seating of graduate students with sophomores at the football games, and (2) faculty concern

about the Notre Dame image and the perceived commercialization of N.D. athletics. The board engaged in a discussion of the various aspects of event sponsorship, the NBC contract, sports lines and the role of athletics in the University.

The meeting was adjourned at 6:06 p.m.

February 12, 1992

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

The meeting was called to order at 4:21 p.m. The minutes of the January 23, 1992, meeting were accepted.

1. Mr. Rosenthal reported on the efforts of the athletic department to accommodate seating for graduate students at football games. He stated that graduate students would be able to select seating in their current location or in the end zone. Father Beauchamp suggested that the Graduate Student Union and the Student Bar Association poll graduate and law students to determine the seating preferences of graduate students.
2. Father Beauchamp presented for board consideration a request for a fifth year of eligibility: David Bankoske in Hockey. The board unanimously recommended a fifth year of eligibility for David Bankoske in Hockey.
3. Father Beauchamp presented for board consideration the recommended schedules for the following sports: Women's Golf and Men's Golf. The board unanimously recommended the approval of the schedules for the sports listed above. A complete list of these schedules is attached to these minutes and is hereby incorporated by reference as an official part of the board minutes.
4. Father Beauchamp presented for board consideration monogram recommendations for the following sport: Volleyball. The board unanimously recommended approval for the monograms. A complete list of those nominated and approved is attached to these minutes and hereby incorporated by reference as an official part of the board minutes.
5. Father Beauchamp brought to the board's attention the issue of student-athletes residing off campus. He stated that the current athletic department rule states that all student-athletes receiving athletic grants-in-aid must live on campus. Mr. Rosenthal proposed the following changes for that rule: that seniors may be allowed to apply to live off cam-



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pus. The athletic department administration would consider conduct and citizenship as factors in approving applications. Those seniors allowed to live off campus would receive financial support in proportion to their athletic grant-in-aid (e.g., a student-athlete who is on full scholarship would receive a stipend for rent and a meal plan on campus in addition to tuition and books; those students on partial grants-in-aid would receive the appropriate percentage of support).

Professor O'Hara stated that she had strong reservations about altering the residency rule for student-athletes. Citing the difficulties of administering off-campus stipends, she argued that the University would be opening a "Pandora's box" of problems. She also outlined her concerns from the student life perspective. Professor O'Hara wanted to talk to rectors confidentially about this issue. Other members of the board raised questions about how peer institutions handle off-campus living, what effect this policy might have on juniors moving off secretly, and how summer school living arrangements might be affected. Father Beauchamp asked the board to meet again next week to continue to discuss this topic.

The meeting was adjourned at 5:58 p.m.

## February 18, 1992

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

The meeting was called to order at 4:23 p.m. The minutes of the February 12, 1992, meeting were accepted.

1. Father Beauchamp presented recommendations for post-humous monogram awards for Margaret Beeler and Colleen Hipp in Women's Swimming. The board unanimously 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. Father Beauchamp summarized the board's last discussion regarding the athletic department policy that requires all grant-in-aid student-athletes to live on campus, and he restated Mr. Rosenthal's motion to alter the rule. He then opened the floor to discussion by the board.

Professor DellaNeva asked questions about the athletic grant-in-aids in comparison to scholarships given to non-athletes as a starting point for the discussion.

Professor O'Hara reiterated her concern that changing the rule will present greater potential for problems related to cash payments and enforcement of NCAA regulations. Her concern is that student-athletes will either get jobs (prohibited for full grant-in-aid athletes by the NCAA) or they will accept illegal payments from outside sources (also prohibited by the NCAA). From the student life perspective, Professor O'Hara feared that student-athletes may move off campus together and share a house, thus creating a "football" house or a "swimming" house, for example, which goes against the spirit of the Student Affairs policy.

Professor O'Hara stated that the University does treat athletes differently from non-athletes when the University values the outcome of that special treatment. She cited the tutoring program and other athletic department policies as examples. She argued that the current housing policy should be considered in that light. Professor O'Hara stated that this issue is the most significant one addressed by the board during her tenure. She wished her strong objection to any change in the policy noted.

Professor Hahn stated that he understood the potential for violations, but also stated that the peer institutions that have off-campus housing policies seem to have a handle on the problem. In his view, this N.D. rule seems discriminatory in that it is really directed at football players (and of those, perhaps only a dozen or so), but affects all student-athletes who receive any amount of athletic financial aid.

Professor Howard spoke in favor of Professor Hahn's remarks and added that the rule restricts the athletes' lives in ways that are not restricted for the non-athletes.

Dean Dutile proposed that the athletic department alter its policy by allowing seniors to live off campus if they so choose; however the University should not subsidize any off-campus living expenses. Professor DellaNeva spoke in favor of Dean Dutile's proposal.

Professor Smith restated Professor O'Hara's concern that if athletes move off campus they will form houses that are, in effect, athletes' frats.

Professor Conway, speaking in support of the existing rule, stated that changes would only open the door to other problems. If the seniors, move off, the juniors will be next and the problems will just escalate.

Professor Halischak offered that the fundamental question is whether or not the University believes strongly enough in the existing rule to enforce it.

Professor Howard restated Mr. Rosenthal's original motion regarding changing the rule. In a split vote, the board voted to recommend altering the athletic department policy that

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requires all grant-in-aid student-athletes to live on campus. The recommendations are as follows: Those seniors wishing to live off campus must petition the athletic department for permission, and they must provide documentation as to their means of financial support and their plans for living accommodations. The athletic department will approve them on a case-by-case basis. For a full grant-in-aid student, the University will provide tuition, fees, books, a campus meal plan, and a stipend equivalent of room to be paid directly to the appropriate landlord. For a partial grant-in-aid student, the University would provide the appropriate percentage of allowable aid.

The meeting was adjourned at 6:10 p.m.

## March 24, 1992

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

Guests: Lou Holtz, Ron Cooper, Rick Minter, Tony Yelovich, Skip Holtz, Earle Mosley, George Kelly, Joe Wessel, Tom Clements, Joe Moore and Mike Trgovac.

The board had breakfast with the coaches of the football team to meet the new coaches and to engage in an informal discussion. Members of the board introduced themselves. Father Beauchamp explained the role and the duties of the Faculty Board. The football coaches introduced themselves. Coach Holtz spoke of his philosophy in coaching and the role of football at Notre Dame.

After the coaches left, the meeting was called to order at 9:26 p.m. The minutes of the February 18, 1992, meeting were accepted.

1. Father Beauchamp presented recommendations for monogram awards for Men's Soccer. The board unanimously recommended approval for the monograms, with the exception of Richard Christofer and Christopher Conway who must clear disciplinary probation before receiving their monograms. The list is attached to these minutes and hereby incorporated by reference as an official part of the board minutes.

2. Father Beauchamp asked members of the board to attend a meeting with the Athletics subcommittee of the Finances Committee of the Colloquy for the Year 2000 on Wednesday, March 24, 1992, at 3 p.m. in the Board Room of Hayes-Healy.

3. Father Beauchamp reported that Father Malloy has accepted the Faculty Board's recommendation to alter the Athletic Department's rule as specified in the minutes of the February 18, 1992, meeting. Professor O'Hara pointed out that the paperwork detailing institutional control should be of the utmost concern to the University.

The meeting was adjourned at 10:02 a.m.

## April 14, 1992

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

The meeting was called to order at 4:27 p.m. The minutes of the February 18, 1992, meeting were accepted.

1. Father Beauchamp presented recommendations for monogram awards for the following sports: Men's Tennis (service), Men's Basketball, Ice Hockey, Wrestling. The board unanimously 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. Father Beauchamp presented recommendations for monogram awards for Women's Basketball. The board unanimously recommended approval for the monograms, with the exception of Debbie Fitzgerald who did not meet the criteria for playing time. The list is attached to these minutes and hereby incorporated by reference as an official part of the board minutes.

3. Father Beauchamp presented for board consideration the following captains for the 1992-93 academic year: Mario Tricoci in Men's Soccer; Dinamarie Garcia, Jeff Piper, James Taliaferro, Greg Wozniak in Fencing; John Godfrey and Tom Whowell in Men's Swimming; Susan Bohdan, Jennifer Stumm and Tanya Williams in Women's Swimming; Chris Dayton in Men's Golf; Kathleen Phares in Women's Golf; Alicia Turner in Volleyball. The board approved the recommendations for captains for Men's Soccer, Men's Swimming, Women's Swimming, Men's Golf, Women's Golf and Volleyball. The board tabled the vote on captains for Fencing until the next meeting. The board asked Father Beauchamp to provide more information on the Fencing captain nominees.

4. Father Beauchamp presented for board consideration the student-athletes for the Byron V. Kanaley Award. After considerable discussion, the board recommended Heidi Piper,

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Molly Lennon, Brett Hofmann and David DiLucia as recipients for the Byron V. Kanaley Award.

5. Father Beauchamp presented for board consideration requests for a fifth year of eligibility in Football for the following: Devon McDonald, Bernard Mannelly, Justin Hall, Lindsay Knapp. The board unanimously recommended approval for a fifth year of eligibility for all nominated.

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

## May 4, 1992

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

The meeting was called to order at 9:40 a.m. The minutes of the April 14, 1992, meeting were accepted.

1. Father Beauchamp presented for board consideration the following captains for the 1992-93 academic year: Dionne Smith, Coquese Washington and Kara Leary in Women's Basketball; Joe Dennen (additional nominee) in Men's Golf; Matt Osiecki, David Bankoske, Curtis Janicke in Hockey; Melissa Harris and Eniko Bende in Women's Tennis; Dinamarie Garcia in Women's Fencing; Jeff Piper in Men's Fencing (Foil); James Taliaferro in Men's Fencing (Sabre); and Greg Wozniak in Men's Fencing (Epee). The board approved all the recommendations for captains for Women's Basketball, Men's Golf and Hockey. The board also approved Eniko Bende for Women's Tennis and Dinamarie Garcia, Jeff Piper and Greg Wozniak for Fencing. The Board tabled the vote on Melissa Harris for Women's Tennis and James Taliaferro for Men's Fencing (Sabre) until the spring 1992 grades have been received.

2. Father Beauchamp presented recommendations for monogram awards for the following sports: Baseball, Men's Golf, Women's Golf, Softball, Men's Swimming, Women's Swimming, Men's Tennis, Women's Tennis, Men's Track and Women's Track. The board unanimously 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. Father Beauchamp presented for board consideration the recommended schedules for the following sports: Women's Soccer, Men's Soccer, Volleyball, Hockey. The board unanimously recommended the approval of the schedules for the sports listed above. A complete list of these schedules is at-

tached to these minutes and is hereby incorporated by reference as an official part of the board minutes.

4. Professor Hahn brought to the board's attention the concerns of Professor George Craig of the Biology Department and others regarding the Wrestling program. He presented a summary/chronology of the discontinuance of Wrestling as presented to the board and as represented in the media. Professor Hahn also discussed the money donated to the University by Mr. Bucky O'Connor. In the conclusion of his presentation, Professor Hahn questioned why the Wrestling program could not be continued as a non-scholarship varsity sport. Much discussion then ensued regarding Mr. O'Connor's intentions for the use of this money. Father Beauchamp read the 1973 Bucky O'Connor agreement to the board and pointed out that the money left to the University is in a scholarship fund, not an endowment program for wrestling. Father Beauchamp also pointed out that the agreement permits the University complete discretion as to its use come 1993. Mr. Rosenthal stated that an 11-year gap existed between the signing date (1973) of the agreement and the use of the money for Wrestling scholarships (1984). Mr. Rosenthal again presented the rationale for ending Wrestling: the decline of interest both nationwide and on campus, the small number of participants, the high medical costs and injury rate, the impact of Title IX. The board then engaged in a discussion about the Wrestling program as members asked questions about specific issues. Professor Hahn concluded by stating that as the elected board member from the College of Science he felt it his duty to present the concerns of his colleague Professor Craig and that he understood the practical factors influencing this decision.

The meeting was adjourned at 11:27 a.m.

## June 22, 1992

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

The meeting was called to order at 12:55 p.m. The minutes of the May 4, 1992, meeting were accepted.

1. Father Beauchamp presented recommendations for monogram awards for the following sports: Men's Swimming, Athletic Trainers, Women's Fencing, Men's Fencing, and Lacrosse. The board unanimously 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.

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2. Father Beauchamp presented for board consideration the following captains for the 1992-93 academic year: Veronica Alvarez and Staci Alford in Softball; John Coyle and Todd Herman in Men's Track; Lisa Gorski and Karen Harris in Women's Track; James Taliaferro in Men's Fencing (Sabre); and Melissa Harris in Women's Tennis. The board approved the recommendations for captains for Softball and Men's Track. The board also approved Lisa Gorski in Women's Track and James Taliaferro in Men's Fencing (Sabre).

3. Dr. Halischak presented a summary of the academic performance of student-athletes for the 1991-92 year. A copy of that report is attached as an appendix to the minutes of this meeting.

4. Father Beauchamp asked each member of the board for some comments or questions about the workings, responsibility, and future agenda of the Faculty Board. Dean Dutille expressed concern about the Baseball game schedule, in particular, the number of games played at the end of the semester. He felt the number to be excessive and asked Dick Rosenthal to address the issue for next season. Professor Conway raised a question about the scope of the board's responsibilities: Is the board to deal with academic issues only or are its responsibilities more wide ranging? Members of the board then offered possible options for the board's role. Professor Howard expressed concern regarding the negative publicity that followed the announcement of all major athletic decisions this year and offered that the Faculty Board be used as a sounding board in the future. Professor Smith added that the board needs better communication regarding its role. He pointed out that there exists confusion among the University population about the role of the board. Professor Kirkner returned to the question asked by Professor Conway: What is the fundamental role of the board, what issues should the board address, and in what decisions should the board have involvement? Professor Hahn suggested that the name of the Faculty Board is a misnomer and should be changed. He also suggested that the board should include a wider constituency and function as a true advisory committee on a wide range of issues regarding athletics. Professor DellaNeve also expressed interest in the constituency question. Professor O'Hara asked about the existing definition of the board. Professor Hahn read it from the *Faculty Handbook*, and members of the board discussed its applicability. Father Beauchamp noted that he perceives the board as representing the faculty of the various colleges and that the elected members of the board should poll their constituencies and bring to the board their concerns. Professor O'Hara proposed that the board implement a standing schedule of meetings and that the board receive materials for the meetings well in advance. Father Beauchamp announced that Dr. Halischak will be coordinating all Faculty Board meetings next year.

The meeting was adjourned at 2:57 p.m.

## Appendix: Report on the Academic Performance of Student-Athletes in 1991-92

### Academic Status by Sport

Fall 1991	Dean's List	Good Standing	On Academic Probation	Academic Dismissal
Baseball	2	27		
Basketball (M)	1	14		
Basketball (W)	3	11		
Cheerleading	4	10		
Fencing (M)	11	23	1	
Fencing (W)	4	7		
Football	10	85	20	
Golf (M)	6	11		
Golf (W)	4	6		
Hockey	3	29	1	
Lacrosse	7	31	2	
Soccer (M)	8	18	2	
Soccer (W)	7	19		
Softball	6	16		
Swimming (M)	9	25		
Swimming (W)	15	19		
Tennis (M)	8	15		
Tennis (W)	4	7		
Track (M)	11	39		
Track (W)	16	18		
Volleyball	3	11	1	
Wrestling	3	20	1	

Spring 1992	Dean's List	Good Standing	On Academic Probation	Academic Dismissal
Baseball	2	22	3	1
Basketball (M)	1	13	1	
Basketball (W)	3	10	1	
Cheerleading	7	8		
Fencing (M)	9	23	3	
Fencing (W)	4	7		
Football	18	75	14	2
Golf (M)	2	9		
Golf (W)	5	5		
Hockey	6	23	1	
Lacrosse	8	30		
Soccer (M)	8	19		
Soccer (W)	8	19		
Softball	8	11		
Swimming (M)	7	25	2	
Swimming (W)	14	18		
Tennis (M)	7	16		
Tennis (W)	4	6	1	
Track (M)	13	35	1	
Track (W)	13	13	1	
Volleyball	3	11	1	
Wrestling	3	17	2	1

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## Team GPA by Sport

	Fall '91 Sem GPA	Spring '92 Sem GPA	Cum GPA
Baseball	2.759	2.498	2.670
Basketball (M)	2.636	2.585	2.634
Basketball (W)	2.858	2.654	2.634
Cheerleading	3.094	3.346	3.133
Fencing (M)	2.928	2.878	2.835
Fencing (W)	3.163	3.259	3.115
Football	2.512	2.596	2.587
Golf (M)	3.124	3.118	2.958
Golf (W)	3.211	3.190	3.174
Hockey	2.770	2.990	2.846
Lacrosse	2.853	2.950	2.879
Soccer (M)	2.959	3.063	3.011
Soccer (W)	3.109	3.117	3.064
Softball	3.095	3.123	2.971
Swimming (M)	3.068	2.867	2.936
Swimming (W)	3.245	3.201	3.140
Tennis (M)	3.058	3.185	3.036
Tennis (W)	3.089	3.061	2.940
Track (M)	3.088	3.117	3.061
Track (W)	3.227	3.161	3.178
Volleyball	2.695	2.892	2.805
Wrestling	2.862	2.668	2.695

# The Graduate School Research Division

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

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# The Graduate School Research Division

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**The Graduate School  
Research Division**

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**Summary of Awards Received and Proposals Submitted**

In the period June 1, 1992, through June 30, 1992

AWARDS RECEIVED

Category	Renewal No.	Amount	New No.	Amount	Total No.	Amount
Research	18	1,288,071	17	944,337	35	2,232,408
Facilities and Equipment	0	0	1	26,837	1	26,837
Instructional Programs	2	217,587	3	538,059	5	755,646
Service Programs	0	0	0	0	0	0
Other Programs	<u>1</u>	<u>60,000</u>	<u>1</u>	<u>9,975</u>	<u>2</u>	<u>69,975</u>
Total	21	1,565,658	22	1,519,208	43	3,084,866

PROPOSALS SUBMITTED

Category	Renewal No.	Amount	New No.	Amount	Total No.	Amount
Research	5	767,774	13	2,127,958	18	2,895,732
Facilities and Equipment	1	30,000	1	35,000	2	65,000
Instructional Programs	0	0	1	699,688	1	699,688
Service Programs	0	0	0	0	0	0
Other Programs	<u>0</u>	<u>0</u>	<u>1</u>	<u>26,836</u>	<u>1</u>	<u>26,836</u>
Total	6	797,774	16	2,889,482	22	3,687,256

# The Graduate School Research Division

## Awards Received

In the period June 1, 1992, through June 30, 1992

### AWARDS FOR RESEARCH

#### Aerospace and Mechanical Engineering

Nelson, R., Arena, A.  
Control of Forebody/Wing Vortical Flows  
NASA-Ames Research Center  
\$30,079 12 months

#### Anthropology

Schurr, M., Bellis, J.  
Woodland and Early Historic Period Settlement Patterns  
Indiana Department of Natural Resources  
\$30,000 10 months

#### Biological Sciences

Lodge, D.  
Predation, Herbivory, and Disturbance  
National Science Foundation  
\$13,588 6 months  
Predation, Herbivory, and Disturbance  
National Science Foundation  
\$11,455 8 months

Fraser, M.  
Transposon Mutagenesis of NPV  
National Institute of Health  
\$63,720 12 months

O'Tousa, J.  
Genetic Analysis of Retinal Degeneration in *Drosophila*  
National Institute of Health  
\$134,834 12 months

Kulpa, C.  
Microbial Desulfurization of Petroleum Distillates  
Environmental Bioscience Corp.  
\$37,000 12 months

#### Civil Engineering and Geological Sciences

Halfman, J.  
High Resolution Paleoclimatic Studies of Lake Turkana,  
Kenya  
National Science Foundation  
\$16,667 24 months

Neal, C.  
Crust/Mantle Interactions in Planetary Evolution  
University of Tennessee, Knoxville  
\$10,000 8 months

Silliman, S.  
Juday Creek Study for MACOG  
St. Joe River Basin Community  
\$11,200 16 months

Gray, K.  
Presidential Young Investigator Award  
National Science Foundation  
\$62,500 24 months

#### Chemical Engineering

Brennecke, J.  
Presidential Young Investigator Award  
National Science Foundation  
\$62,500 24 months  
Hill, D.  
Microstructure of Liquid Crystal Polymers  
National Science Foundation  
\$99,987 36 months

Chang, H.  
Wave Dynamics on Failing Films  
Department of Energy  
62,916 12 months  
REU Supplement to NSF CTS-91-12977  
National Science Foundation  
\$2,640 12 months

Leighton, D.  
Migration in Bidisperse/Polydisperse Suspension  
Lockheed Company  
\$25,231 12 months

#### Chemistry and Biochemistry

Bumpus, J.  
Enzymology of Fungal and Mammalian Peroxidase  
Utah State University  
\$97,104 12 months

Fehlner, T., Wolf, E.  
Alloy Thin Films  
National Science Foundation  
\$136,000 24 months

Thomas, J.  
Reactions in Organized and Constricted Systems  
National Science Foundation  
\$141,500 12 months

Castellino, F., Colpitts, T.  
Gla Domain  
American Heart Association, Ind.  
\$11,000 12 months

Castellino, F., Francis, R.  
Glycan Assembly on Human Plasminogen  
American Heart Association, Ind.  
\$10,000 12 months

Castellino, F.  
Structure-Function Studies on Plasminogen and Plasmin  
National Institute of Health  
\$322,979 12 months

# The Graduate School Research Division

## Computer Science and Engineering

Cohn, D.  
Universal Cooperation Mechanism for Distributed  
Computing  
International Business Machines  
\$375,428 10 months

## Electrical Engineering

Alcock, C.  
New Materials for Solid Oxide Fuel Cells  
Argonne National Laboratories  
\$6,000 3 months  
On-Line Sensor Development for IFR  
Argonne National Laboratories  
\$10,016 3 months  
Electro-Nite Company Research  
Electro-Nite Company  
\$20,000 12 months  
Sain, M., Bauer, P., et al.  
Clark Clutch Plates  
Clark Components International  
\$30,000 7 months

## Mathematics

Knight, J.  
Recursive Model Theory  
National Science Foundation  
\$37,200 36 months  
Thorbergsson, G.  
Differential Geometry of Submanifolds  
National Science Foundation  
\$26,564 24 months  
Buechler, S.  
Geometrical Studies of Superstable Theories  
National Science Foundation  
\$25,700 36 months

## Music

Resick, G., Plummer, C., et al.  
con tempo: Notre Dame's Contemporary Music Ensemble  
Indiana Arts Commission  
\$600 10 months

## Physics

Ruggiero, S.  
Single-Electron Tunneling  
Department of Energy  
\$49,000 12 months  
Ruchti, R., Biswas, N., et al.  
Research in High Energy Collider Physics  
Department of Energy  
\$105,000 12 months

Poirier, J.  
Research at Ultra High Energies  
National Science Foundation  
\$150,000 12 months

Blackstead, H.  
Microwave Dissipation in High Temperature  
Superconductors  
Purdue University  
\$4,000 12 months

## AWARDS FOR FACILITIES AND EQUIPMENT

### Civil Engineering and Geological Sciences

Spencer, B., Sain, M.  
Engineering Research Equipment: Modal Analyzer and  
Control System  
National Science Foundation  
\$26,837 12 months

## AWARDS FOR INSTRUCTIONAL PROGRAMS

### Biological Sciences

Rai, K.  
Experimental Parasitology and Vector Biology  
National Institute of Health  
\$212,587 12 months  
Lodge, D.  
REU Supplement: Predation, Herbivory, and Disturbance  
National Science Foundation  
\$5,000 6 months

## Center for Bioengineering Pollution Control

Irvine, R.  
GAANNP Scholarships in Environmental Research  
Department of Education  
\$180,000 12 months

## Center for Educational Opportunity

Blake-Smith, D., Smith, R.  
Upward Bound  
Department of Education  
\$319,059 12 months

## Physics

Rettig, T.  
REU Site Program for Physics  
National Science Foundation  
\$39,000 36 months

# The Graduate School Research Division

## AWARDS FOR OTHER PROGRAMS

### Center for Educational Opportunity

Outlaw, W., Smith, R.

WDS: Summer Youth Employment Program  
Workforce Development Services  
\$9,975 5 months

### Graduate School

Hatch, N.

Arthur J. Schmitt Foundation  
A.J. Schmitt Foundation  
\$60,000 9 months

## Proposals Submitted

In the period June 1, 1992, through June 30, 1992

## PROPOSALS FOR RESEARCH

### Aerospace and Mechanical Engineering

Dunn, P., Thomas, F.

Experiments Characterizing Vorticity Wave/Shock  
Interaction

McDonnell Aircraft Company  
\$75,733 12 months

Vorticity Wave/Shock Interaction

McDonnell Aircraft Company  
\$24,118 4 months

Jumper, E.

Fluid-Optics Interactions  
Department of the Air Force  
\$189,710 36 months

### Biological Sciences

Boyd, S.

Sexual Dimorphism in Neuropeptide Systems  
National Institute of Health  
\$417,073 36 months

Sexual Dimorphism in Neuropeptide Systems  
National Institute of Health  
\$113,965 12 months

Rai, K.

Genetic Differentiation in *Aedes albopictus* Subgroup  
National Institute of Health  
\$232,159 12 months

### Civil Engineering and Geological Sciences

Gaillard, J., Gray, W.

Freshwater Sediment Model for Assessing Trace Metal  
Behavior  
Environmental Protection Agency  
\$272,121 36 months

Halfman, J.

Accumulation Rates of Organic Carbon in a Tropical Rift  
Lake  
ACS Petroleum Research Fund  
\$101,258 32 months

### Chemistry and Biochemistry

Helquist, P.

Synthesis and Activity of Streptogramins A and Analogues  
National Institute of Health  
\$139,826 12 months

Basu, S., Basu, M.

Regulation of Polylactosamine-Tumor Antigen  
Biosynthesis  
National Institute of Health  
\$243,398 12 months

Hayes, R.

Fundamental Studies on Photon-Assisted CVD  
ACS Petroleum Research Fund  
\$73,245 28 months

Helquist, P.

Reactive Energy Surfaces  
C. & H. Dreyfus Foundation, Inc.  
\$25,000 60 months

### Electrical Engineering

Costello, D., Mills, D.

Award for Creativity in Engineering  
National Science Foundation  
\$46,910 12 months

### Graduate School

Hilliard, R.

Biomedical Research Support Grant for 1992-93  
National Institute of Health  
\$50,000 12 months

### Physics

Furdyna, J.

Materials for Blue Laser Diodes  
3M Corporate Research Laboratory  
\$65,000 12 months

# The Graduate School Research Division

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## Theology

Cavadini, J.

Critical Edition of Alcuin of York's de fide  
National Endowment for the Humanities  
\$79,496 7 months

Ulrich, E.

The Publication of Three Volumes of Dead Sea Scrolls  
National Endowment for the Humanities  
\$568,520 36 months

## South Bend Center for Medical Education

McKee, E.

Regulation of Mitochondrial Protein Synthesis  
I.U. School of Medicine  
\$178,200 36 months

## PROPOSALS FOR FACILITIES AND EQUIPMENT

## Physics

Tanner, C.

Absolute Calibration of Atomic PNC Measurements  
National Institute of Standards and Technology  
\$30,000 12 months

Ruchti, R., Biswas, N., et al.

Equipment for Research in High Energy Collider Physics  
National Science Foundation  
\$35,000 12 months

## PROPOSALS FOR INSTRUCTIONAL PROGRAMS

## O.S.I.P.A.

Borelli, M.

CANDAX McNair  
Department of Education  
\$699,688 36 months

## PROPOSALS FOR OTHER PROGRAMS

## Institute for International Peace Studies

Hayner, A.

USIA Baltic/East Central European Grant: Lithuanian MA  
Student  
NAFSA/Association of International Educators  
\$26,836 12 months

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# Notre Dame

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# R E P O R T

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**Volume 21, Number 20**

**July 31, 1992**

**Notre Dame Report (USPS 7070-8000)** is an official publication published fortnightly during the school year, monthly in the summer, by the University of Notre Dame, Office of the Provost. Second-class postage paid at Notre Dame, Indiana.  
*Postmaster:* Please send address corrections to: Records Clerk, Department of Human Resources, Brownson Hall, University of Notre Dame, Notre Dame, IN 46556.

Linda M. Diltz, Editor  
Marten Schalm, Designer  
Willa Murphy, Layout  
Publications and Graphic Services  
415 Main Building  
Notre Dame, IN 46556  
(219) 239-5337

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