

NOTRE DAME REPORT

THE UNIVERSITY

- 367 *Fay Named Valedictorian*
- 367 *Law School Ranks Third in Student Satisfaction*

FACULTY NOTES

- 368 *Faculty Appointments*
- 368 *Faculty Honors*
- 368 *Faculty Activities*

DOCUMENTATION

- 373 *Faculty Senate Journal*
March 1, 1994

THE GRADUATE SCHOOL

- 380 *Current Publications and Other Scholarly Works*
- 384 *Awards Received and Proposals Submitted*
- 385 *Awards Received*
- 387 *Proposals Submitted*

MAY 13, 1994 • NUMBER 17

Fay Named Valedictorian

Jonathan P. Fay, an aerospace and mechanical engineering major from Arcadia, Ohio, has been named valedictorian of the 1994 graduating class and will deliver the valedictory address at the spring commencement exercises.

The highest ranking senior in the College of Engineering, Fay compiled a cumulative 3.983 grade point average. He is the recipient of a National Science Foundation graduate fellowship and has been honored by the Sigma Gamma Tau and Tau Beta Pi engineering societies. He was a NASA undergraduate research fellow last summer and was selected as this year's winner of Notre Dame's Zahm Prize for Aeronautical Engineering.

A Keenan Hall resident, Fay was co-captain of the tuba section of the Notre Dame Marching Band. He plans to pursue graduate studies in aerospace engineering at Stanford University.

Law School Ranks Third in Student Satisfaction

The Notre Dame Law School is among the best in the nation based on student satisfaction, according to a new study by *The National Jurist* and *Princeton Review*.

Notre Dame placed third in the satisfaction survey, trailing only the Washington and Lee University School of Law in Lexington, Va., and Seton Hall University School of Law in Newark, N.J. Following Notre Dame in the top 10 were the University of Texas in fourth, Washburn (Kans.) University, the University of Southern California, the University of Toledo, South Texas State University and the University of Washington.

Among other leading law schools, Yale University placed 11th; Northwestern University, 28th; Vanderbilt University, 33rd; University of Virginia, 37th; Indiana University, 43rd; University of Michigan, 46th, Stanford University, 48th; University of Chicago, 54th; Georgetown University Law Center, 58th; Duke University 143rd; and Harvard University, 154th.

The rankings are based on the level of satisfaction law students have with the quality of life, faculty and facilities found at 165 schools nationwide. Within each category, some 18,000 students were asked to evaluate factors such as the degree of competitiveness, the sense of community, opportunities for female and minority students, the quality of teaching, faculty-student relations, research resources and library staff.

The Notre Dame Law School received high marks across the board, with students expressing particular satisfaction with the strong sense of community they experience on campus.

Published five times a year, *The National Jurist* is based in Arlington, Va., and provides news and insight for future lawyers.

FACULTY NOTES

Appointments

Xavier Creary, an organic chemist and member of the Notre Dame faculty since 1974, has been named to the Charles L. Huisking Sr. professorship in chemistry. As director of the general chemistry program in the Department of Chemistry and Biochemistry, Creary teaches general chemistry to undergraduates, primarily freshmen. Awarded the University's Thomas P. Madden Award for outstanding teaching of freshmen in 1993, he was cited for his creativity in meeting the needs "of those who flock not only to his classes but also to his renowned review sessions." He also has taught both graduate and undergraduate courses in Notre Dame's organic chemistry program. In his research, Creary studies organic reaction mechanisms, examining the detailed processes by which one organic substance is converted to another. He is particularly interested in very reactive molecules that are involved in chemical transformations. Creary received his bachelor's degree in chemistry from Seton Hall University in New Jersey and his doctorate from Ohio State University. He pursued postdoctoral studies at the University of California, Santa Cruz. Named an Alfred P. Sloan Foundation fellow, he received basic research support from the foundation from 1977-79.

Honors

J. Philip Gleason, professor of history, was elected vice-president and president-elect of the Immigration History Society at the 1994 meeting in Atlanta, Ga., April 16.

Rev. Theodore M. Hesburgh, C.S.C., president emeritus and professor emeritus of theology, has received the first annual Rabbi Marc H. Tanenbaum Award "for promoting interreligious understanding" at Park Avenue Synagogue in New York, N.Y., April 20. The award and lecture are sponsored by the Rabbi Marc H. Tanenbaum Foundation, which seeks to promote interreligious understanding and raise a strong voice against violence committed in the name of religion. Rabbi Tanenbaum was widely hailed as the father of contemporary Jewish-Christian relations and the foremost Jewish ecumenical leader in the world. Hesburgh has been elected president of the Harvard University Board of Overseers for 1994-95. Elected to the board in 1990, he will assume the presidency in June, becoming the first Roman Catholic priest to lead Harvard's principal governing body.

Edward A. Kline, professor of English and O'Malley director of the Freshman Writing Program, was honored as an outstanding teacher and scholar at the national conference of the College English Association in Orlando, Fla., April 9.

John Lucey, associate professor of aerospace and mechanical engineering, was elected chairperson of the Engineering College Magazines Association at the association's 74th annual meeting at Colorado State University in Ft. Collins, Colo., April 9.

A. James McAdams, associate professor of government and international studies has received the Outstanding Academic Book of 1993 award by *CHOICE Magazine* for *Germany Divided: From the Wall to Reunification* (Princeton University Press).

Robert Schmuhl, associate professor of American studies, has been named a founding member of the advisory board of the Center for Religion and the News Media of Northwestern University's Medill School of Journalism and Garrett-Evangelical Seminary.

Donald E. Sporleder, professor of architecture, was elected a fellow of the American Institute of Architects. The AIA Fellowship, the highest membership honor the American Institute of Architects can bestow on its members, recognizes significant contribution to architecture and society on a national level and is awarded to those who have achieved a standard of excellence in the profession.

Activities

Mark S. Alber, assistant professor of mathematics, gave a talk titled "Hamiltonian Systems on Riemann Surfaces and Nonlinear Equations" at the Mathematical Sciences Research Institute in Berkeley, Calif., April 14.

Ani Aprahamian, assistant professor of physics, presented a joint seminar for the Departments of Physics and Chemistry titled "Vibrational Degrees of Freedom in Deformed Nuclei" at Clark University in Worcester, Mass., April 4.

Stephen M. Batill, professor of aerospace and mechanical engineering, presented a paper titled "Experimental Uncertainty and Wind Tunnel Measurements" at the Supersonic Tunnel Association meeting held in Buffalo, N.Y., April 10-11.

Gail Bederman, assistant professor of history, presented a paper titled "'Naked, Unfettered, and Unashamed': Charlotte Perkins Gilman, Anti-Feminist Reaction, and the Rehabilitation of the 'Savage Rapist'" at the Organization of American Historians annual meeting in Atlanta, Ga., April 16.

FACULTY NOTES

Joan F. Brennecke, assistant professor of chemical engineering, presented a paper titled "Pyrene as a Probe of Preferential Solution in CO₂-CHF₃ Mixtures" co-authored by Jianwei Zhang at the AIChE national meeting in Atlanta, Ga., April 19. She was a co-author on a paper titled "Absorption and Fluorescence Probes of Preferential Solvation in Binary Liquid Mixtures and Comparison with g^E Models" which was presented by Christina B. Dirk and co-authored with Olivier R. Carre.

Linda Buyer, assistant professor of psychology, presented the poster "Dispersion of Experimental Information on a Residential Campus: A Cautionary Tale" at the annual convention of the Midwest Psychological Association in Chicago, Ill., May 6.

George B. Craig Jr., Clark professor of biology, presented a paper in the symposium Midwest Wetlands Problems "*Aedes vexans* in Indiana" and coached the Notre Dame Team in Lennae Games at the annual meeting of the North Central Branch of the Entomological Society of America in Springfield, Ill., March 13-15. He presented a paper titled "*Stegomyia* Wars: What is the Mechanism of Contention?" at the annual meeting of the American Mosquito Control Association in San Diego, Calif., April 9-14.

Fabio B. Dasilva, professor of sociology, organized and chaired two sessions titled "Sociology of Music" and "Art and Society" at the annual meetings of the North Central Sociological Association held in Columbus, Ohio, April 14-16. He organized a symposium titled "All Music: Studies on the Hermeneutic of Music" and presented the leading paper by the same title and another on "Scriabin and the Question of Being" during that conference.

Marina De Fazio, instructor in Romance languages and literatures, presented the paper "'Trasmutabile Son Per Tutte Guisel': Toward a New Reading of *Paradiso V*" at the XIV annual convention of the American Association of Italian Studies held at the University of Wisconsin in Madison, Wis., April 7-10.

Vincent P. De Santis, professor emeritus of history, gave a talk on "The Philippine American War: 1899-1902" at Our Lady of the Angels Franciscan Seminary in Quezon City, Philippines, Feb. 18.

Elizabeth Jane Doering, adjunct assistant professor in the arts and letters core course, gave the paper "Simone Weil: A Social Philosopher for the Twenty-First Century" to the Southeastern Women's Studies Association 18th annual conference at East Carolina University in Greenville, N.C., April 9.

Ronald Dorris, assistant professor of American studies, chaired a session on African American Culture and History and read the paper "Marcus Garvey: Alignment of Public and Private Opposition" at the Popular/American Culture Association conference in Chicago, Ill., April 6-9. He presented the paper "Bacchic Ritual in African American Literature" at the College Language Association meeting in Durham, N.C., April 13-16.

Fernand N. Dutile, associate dean and professor of law, delivered an invited talk titled "The U.S. Supreme Court's 1993 Decisions Relating to the Law of Higher Education" at the national conference on Law and Higher Education in Clearwater Beach, Fla., Feb. 15.

William G. Dwyer, professor of mathematics, gave the lecture "What the Lichtenbaum-Quillen Conjecture Implies for the K-theory of a Number Ring" to the Mathematics Department at Brown University in Providence, R.I., April 21.

Jeffrey L. Feder, assistant professor of biological sciences, gave a seminar titled "Sympatric Speciation in the Apple Maggot Fly, Fact or Fiction?" at the University of Arizona in Tucson, Ariz., March 8-15.

Sonia G. Gernes, professor of English, gave a reading of her own poetry and fiction at Mesa Community College in Phoenix, Ariz., March 12.

J. Philip Gleason, professor of history, served as commentator on three papers dealing with Jesuit Higher Education in the United States at the spring meeting of the American Catholic Historical Association held at the College of the Holy Cross in Worcester, Mass., April 9. He served as commentator on three papers dealing with ethnicity and American identity in the era of World War II at the 1994 meeting of the Organization of American Historians held in Atlanta, Ga., April 14-17.

Kimberly A. Gray, assistant professor of civil engineering and geological sciences, presented an invited seminar titled "Free Radicals and Excited States in Environmental Engineering: Photocatalysis and Radiolysis" in the Department of Civil Engineering at Northwestern University in Evanston, Ill., April 12.

Davide A. Hill, assistant professor of chemical engineering, presented "On the Use of Normal-Mode Microdielectrometry to Probe Structure Evolution in Polymer Melts and Liquid Crystals" at the spring 1994 meeting of the American Chemical Society, PMSE Division in San Diego, Calif., March 17.

FACULTY NOTES

David R. Hyde, assistant professor of biological sciences, gave the invited seminar "A Multifaceted Approach to Study *Drosophila* Visual Transduction" at St. Louis University in St. Louis, Mo., April 8.

Edward A. Kline, professor of English and O'Malley director of the Freshman Writing Program, chaired a panel discussion on "Writing Program Identity" at the annual conference of the National Writing Centers' Association in New Orleans, La., April 15.

Charles F. Kulpa, associate dean of science and professor of biological sciences, presented a seminar titled "Biodesulfurization of Petroleum Fuels: Will it Work?" to the Biotechnology Group at the University of Michigan in Ann Arbor, Mich., April 5-6.

Catherine Mowry LaCugna, professor of theology, presented the lecture "Inclusivity and the Church: Imaging the Triune God" at Villanova University in Villanova, Pa., April 14. She gave a consultation at the Pew Charitable Trusts Foundation in Pasadena, Calif., May 6-8.

Michael J. Loux, O'Shaughnessy professor of philosophy, read a paper titled "Understanding Process" before the Philosophy Department at Purdue University in West Lafayette, Ind., April 14.

Rev. Edward A. Malloy, C.S.C., president and professor of theology, delivered the commencement address at High Point University in High Point, N.C., May 7.

James J. Mason, assistant professor of aerospace and mechanical engineering, presented an invited lecture titled "Mechanisms and Effects of Heat Generation in Dynamic Fracture" to the Department of Engineering Science at the Ohio State University in Columbus, Ohio, April 13.

Diana C.J. Matthias, assistant professional specialist in the Snite Museum of Art, organized and chaired the panel "Storytelling Programs in Art Museums: Organization and Methods" at the annual convention of the National Art Education Association in Baltimore, Md., April 8-12.

A. James McAdams, associate professor of government and international studies, acted as chair and discussant on a panel on "National Identity and Citizenship in Central and Eastern Europe" at the ninth international conference of Europeanists which met in Chicago, Ill., April 1.

Rev. Richard P. McBrien, Crowley-O'Brien-Walter professor of theology, presented the 1994 Pedro Arrupe Lecture "The Call to Christian Service" at Saint Ignatius High School in Cleveland, Ohio, March 15.

Rev. John Allyn Melloh, S.M., coordinator of the Marten Program in Homiletics and Liturgics and professional specialist in theology, gave a presentation and discussion on "Church Growth and Worship: An Unfriendly Partnership?" with Lester Ruth which was sponsored by the United Religious Community in South Bend, Ind., Feb. 25. He presented "Homily and Sermon," "Structural Exegesis for Preaching," "Method of Homily Preparation" and "Consideration on a Phenomenological Approach to Preaching" at the Center for Continuing Formation in Ministry at the University of Notre Dame in Notre Dame, Ind., March 24-25. He presented a three-part series on homiletic method at Proclamation '94 "An Intensive Preaching and Worship Conference" sponsored by Cokesbury Seminars, the United Methodist Publishing House and the United Methodist General Board of Discipleship in Nashville, Tenn., April 12-14. He presented "The Homily: Drawn from Scriptural and Liturgical Sources" and "A Guaranteed Method for Encountering the Sunday Scriptures" at the conference "Proclaiming the Eternal Word in a Changing Church" sponsored by the Center for Pastoral Liturgy in South Bend, Ind., April 18, 21. He preached at evening prayer on "By Water and Blood" at that workshop, April 18.

Clive R. Neal, assistant professor of civil engineering and geological sciences, gave the invited talk "The Birth and Death of Earth's Only Natural Satellite" at Grand Valley State University in Grand Rapids, Mich., April 18.

Alven M. Neiman, assistant dean and concurrent assistant professor in the arts and letters core course, delivered the paper "Rorty versus Fraser: Irony and Theory as Partners" as part of a symposium on Feminism and Pragmatism at the annual meeting of the American Educational Research Association in New Orleans, La., April 6.

Rev. Thomas F. O'Meara, O.P., Warren professor of theology, presented "The Ministry of All the Baptized" in Soldatna, Alaska, March 6. He presented "Aspects of the Theology of Ministry and Women as Pastors in the New Ministry of Pastoral Administrators" in Anchorage, Alaska, March 7. He gave the talk "Fundamentalism: A Catholic Perspective" at Alaska Pacific University in Anchorage, Alaska, March 9. O'Meara presented "Aspects of the Expansion of Ministry in Today's Catholic Church: Enrichment Day for the Clergy and Ministers of the Archdiocese of Anchorage" in Anchorage, Alaska, March 10.

James S. O'Rourke IV, associate professional specialist in business administration, director of the Center for Business Communication and concurrent associate professor of management, presented a case study titled "The Ethics of Resumes and Recommendations: When Do Filler and Fluff Become Deception and Lies?" to the Midwest regional conference of the Association for Business Communication in Milwaukee, Wis., April 15.

FACULTY NOTES

William A. O'Rourke, associate professor of English, served as a panel member for "The Writer in Indiana" sponsored by the English Department at Ball State University in Muncie, Ind., April 13.

Jean Porter, associate professor of theology, gave the paper "The Connection of the Virtues and the Unity of the Moral Life: The Rational Coherence of Morality According to Aquinas and Alan Donagan" at a conference on the moral philosophy of Alan Donagan at the University of Notre Dame, Notre Dame, Ind., April 14.

Kathy Psomiades, assistant professor of English, presented the paper "Household Taste: Aesthetic Standards, Social Hierarchies, Feminine Desire" at the Interdisciplinary Nineteenth-Century Studies at the ninth annual colloquium at the College of William and Mary in Williamsburg, Va., April 9. She gave the paper "Dante Gabriel Rossetti's *Lilith*/Frederick Leyland's House" at the Northeast Victorian Studies Association meeting at New York University in New York, N.Y., April 23.

John Roos, associate professor of government and international studies, presented the paper "Flannery O'Connor and the Limits of Justice" at the Southern Women Writer's Conference at Berry College in Rome, Ga., April 9.

Leah Rutchick, assistant professor of art, art history and design, delivered the paper "Memory, Meditation and Memoria: Reading the Signs at Moissac" at the annual meeting of the Midwest Art History Society at the School of the Art Institute in Chicago, Ill., March 24-27.

Susan Guise Sheridan, assistant professor of anthropology, gave the invited presentation titled "Trace Elements and Human Prehistory" for the Department of Biological Anthropology and Anatomy Speaker Series at Duke University Medical School in Durham, N.C., March 18. She presented "Elemental Analysis of Mesolithic Bone from Wadi Halfa: A Diagenetic and Dietary Investigation of Per Mineralized Human Remains" with B.J. Magee, D.P. Van Gerven and D.L. Greene at the 63rd annual American Association of Physical Anthropology meeting in Denver, Colo., March 30-April 3. She presented "Antemortem Fluorine Levels in an Ancient Nubian Population" with M.P.E. Connelly and Mark Schurr, visiting assistant professor of anthropology, at that meeting.

Ajit Singh, visiting Scholl professor of economics, presented a seminar titled "The Large Third World Firm: Corporate Financing Patterns and Stock Market Development in Industrializing Economies" at the Department of Economics at the University of Notre Dame, Notre Dame,

Ind., March 22. He gave a special lecture "'Close' vs. 'Strategic' Integration with the World Economy and the 'Market Friendly Approach to Development' vs. An 'Industrial Policy.'" A Critical Examination of the World Bank Theses on Economic Policy" to students and faculty in the International Studies in Planning Program at Cornell University in Ithaca, N.Y., April 8. He presented the paper "The State and Industrialization in India: Successes and Failures and the Lessons for the Future" to the students and faculty in the South Asian Program at Cornell University, Ithaca, N.Y., April 9.

Steven B. Skaar, associate professor of aerospace and mechanical engineering, was awarded a U.S. Patent for "Nonholonomic Camera-Space Manipulation," March 1994.

A.L. Soens, associate professor of English, presented "*July's People*: Gordimer's Domesticized Revolution, Utopia and Identity" at Let's Talk About It; NEH, ICH at the Nappanee Public Library, Nappanee, Ind., March 28. He presented "Translated Loons Transmogrified: Schoolcraft, Translations and Cultural Contexts" at the Popular Culture Association in Chicago, Ill., April 7. He presented "*The Devil's Disciple*: Gentlemanly John and Revolutionary Style" at Let's Talk About It; NEH, ICH at Middlebury Public Library in Middlebury, Ind., April 12.

Donald E. Sporleder, professor of architecture, presented an environmental awareness program to 160 first graders at the Mary Frank Elementary School in Granger, Ind., March 25. The program focused on the history, environmental concerns, challenges and opportunities in the St. Joseph River basin.

John W. Stamper, associate professor of architecture, presented a paper titled "*Building Classical*: The Role of the University of Notre Dame School of Architecture" at the symposium "A Vision of Europe: Building Classical for the City of the Year 2000" at the British Council in Bologna, Italy, Jan. 19.

Nancy K. Stanton, professor of mathematics, gave a lecture on "Real Hypersurfaces in \mathbb{C}^n " at the conference in Complex Analysis, A Conference in Memory of Halsey Royden at Stanford University in Stanford, Calif., April 16.

James P. Thomas, assistant professor of aerospace and mechanical engineering, presented a seminar titled "Modeling the Influence of Internal Hydrogen on the Crack Growth Rate of Metals" at Lehigh University Mechanical Engineering and Mechanics Department in Bethlehem, Pa., April 15.

FACULTY NOTES

Chris R. Vanden Bossche, associate professor of English, chaired a session on "Extended Families" at the annual meeting of Interdisciplinary Nineteenth-Century Studies at the College of William and Mary in Williamsburg, Va., April 9.

Arvind Varma, Schmitt professor of chemical engineering, authored a paper titled "Mechanistic and Processing Studies in Combustion Synthesis of Niobium Aluminide Matrix Composites" presented by doctoral student Cynthia R. Kachelmyer at the Materials Research Society spring meeting held in San Francisco, Calif., April 4-6.

Raimo Väyrynen, Regan director of the Kroc Institute and professor of government and international studies, presented the paper "Security of Small States in Europe: Finland" for the conference on "Small State Security in Post-Cold War Europe" at the University of British Columbia, Vancouver, B.C., March 24-25. He presented "Arms Production in the Semiperiphery: Economic Preconditions and Political Objectives" for the 35th annual convention of the International Studies Association in Washington, D.C., March 29-April 1. He gave the paper "Small States in Europe and Regional Organizations" for the conference on "National Security of Small States" organized by the Leonard Davis Institute for International Relations at the Hebrew University and the BESA Center for Strategic Studies at Bar-Ilan University in Jerusalem, April 5-7. He presented the paper "Economic Sanctions and Nuclear Non-Proliferation" for the conference on "Bombs, Sticks and Carrots" organized by the Kroc Institute for International Peace Studies and the Fourth Freedom Forum at the University of Notre Dame, Notre Dame, Ind., April 8-10. He presented "Transnational Social Movements: The Interface of Globalism and Localism" for the workshop on Transnational Social Movement Organizations organized by the Kroc Institute for International Peace Studies and the Social Science Research Council, Notre Dame, Ind., April 21-23.

Peter Walshe, professor of government and international studies, presented the paper "South Africa in Transition: Prophetic Christianity and the Liberation Movement" at the Miller Center of Public Affairs at the University of Virginia in Charlottesville, Va., March 4. He presented the paper "Christianity and Democratization in South Africa" to the Poynter Center for the Study of Ethics and delivered a public lecture on "South Africa in Transition" at Indiana University in Bloomington, Ind., April 7.

Mitchell Wayne, assistant professor of physics, presented an invited talk on "Use of Plastic Optical Fibers for Charged Particle Tracking in High Energy Physics" at the spring meeting of the Material Research Society in San Francisco, Calif., April 4-8.

Kathleen Maas Weigert, associate professional specialist in the Center for Social Concerns and concurrent associate professor of American studies and peace studies, spoke on "Neighborhoods and Conflict Resolution" on a panel for the Teen Think Tank on "This is My Neighborhood; No Shooting Allowed" at Saint Mary's College, Notre Dame, Ind., March 23. She co-led a workshop on "Experiential Learning and Peace Studies: Action and Analysis" at the sixth annual meeting of the Peace Studies Association in San Francisco, Calif., April 7.

John P. Welle, associate professor of Romance languages and literatures, gave the paper "Elements of Film Culture and Film History in Delio Tessa" at the American Association for Italian Studies Conference at the University of Wisconsin in Madison, Wis., April 9. He gave an invited lecture titled "Zanzotto: Idioms, Identities, and Translation" at the University of Michigan in Ann Arbor, Mich., April 12.

Rev. Oliver F. Williams, C.S.C., associate provost and associate professor of management, spoke on the South African elections on WGN Radio — "Extension 720" in Chicago, Ill., March 28. He presented "The Political Transformation of South Africa" at the National Strategy Forum in Chicago, Ill., April 13.

Faculty Senate Journal March 1, 1994

The chair professor Richard Sheehan called the meeting to order at 7:04 p.m. in room 202 of the Center for Continuing Education and asked professor Richard McBrien to offer a prayer for guidance. Next the chair announced that two new members would be joining the senate to fill unexpired terms: Professor Patrick J. Sullivan, C.S.C., representing the College of Arts and Letters, and Supriyo Bandyopadhyay of the College of Engineering; senators greeted them with a round of hearty applause. Professor Regina Coll will represent the senate for the rest of the year on the Faculty/Student Committee on Women. The senate has received from the vice president for business affairs Thomas Mason a copy of the report IRS 990, filed by the University; it is available for examination in the senate office, Decio 234. Professor William Eagan asked the chair by letter to encourage senators at this early date to consider candidates for senate offices for the year 1994-95; people should be interested and willing to work for the good of the faculty.

Commenting on the recent meeting of the Academic Council, Sheehan said the motion on the University teaching center passed easily. Rev. E. William Beauchamp, C.S.C., executive vice president, commented in detail on the University's endowment program: It is nearing \$1 billion in value; the spending allocation will rise from 3.3 percent to 3.9 percent for 1994-95, and further increases are planned over the following two years, in line with a recommendation of the Colloquy.

The chair reported a discussion of the senate's executive committee of the proposal at the last meeting on "extraordinary" influences on academic appointments. There was no consensus in the committee on a course of action or on any revised motion, but there were lots of questions and concerns. At least two committees of the senate are at work currently on this or related areas of interest. The executive committee wished to turn to the senate for additional guidance and instruction. The group saw three options: do nothing, present a vaguely-worded motion in the spirit of the original or pass a motion more to the point, perhaps mentioning the instances and people cited in the press.

In the ensuing discussion the chair asked, should the senate simply say to the president that all academic appointments should be routed through normal channels to the provost? Should the senate name the local ordinary? What purpose is to be served by any sort of resolution at this time? Professor Jean Porter believed some statement should be made by the senate. Professor Phillip Quinn supported this because an expression of faculty concerns over this should be made public, on the record. Sheehan

suggested the January journal report of the discussion with the provost would do that adequately. For professor Michael Detlefsen a resolution naming members of the clergy as seeking unauthorized influence was in order. McBrien reminded the senate that a large body like this cannot write a resolution; perhaps an ad-hoc committee might be charged with formulating and presenting a resolution at our next meeting. He would not direct the resolution to anyone outside the University; we have to direct it to those within the University who are responsible for the protection of academic freedom and integrity.

Professor David Ruccio asked if the executive committee had a resolution or a draft to present? Sheehan responded that no consensus existed in the committee to bring anything to the senate floor, although it did review the chair's draft. Ruccio urged an ad-hoc committee that would work with that draft and other comments, in line with McBrien's suggestion. Detlefsen disagreed; he wanted to work at this meeting from the chair's draft and come up with a resolution. Professor John Affleck-Graves believed the issue was important and serious enough for a special committee to be charged with drafting a resolution for the next meeting. In support of Ruccio's comments, professor Frank Connolly urged that the executive committee's draft be made available to an ad-hoc group to help them with a resolution. Professor Gary Hamburg thought one of the senate's regular committees might be able to do this expeditiously. Porter moved that the executive committee be discharged from further consideration of the issue, and Detlefsen seconded. In the discussion, she added that, if this motion passed, the senate would then be able to do what it wanted with the idea; as the matter stood, it was in a parliamentary muddle. Detlefsen asked Sheehan to read his draft, which he did. Professor Daniel Simon wanted the chair to outline the disagreements the executive committee had with the draft. In response, Sheehan said the draft focused, as the Academic Articles do, on promotion not hiring and the action clause was somewhat vague. Connolly thought it was basically a good resolution, with a need for a stronger ending. The question was called, and the senate voted. The senate unanimously agreed with the Porter resolution.

Quinn moved that the chair appoint an ad-hoc committee to take the Sheehan draft, consider tonight's senate discussion and faculty concerns, and present a resolution on this matter at our next meeting. Porter seconded. Detlefsen asked that any motion drop references to the Colloquy as an authoritative source and eliminate, even in an ironic sense, any copying of Colloquy language. Sheehan replied that that was one of the executive committee's criticisms of his draft. Professor Paul Weithman wanted to clarify whether the issue was over non-academic concerns or over people becoming involved who were not academics. Again, this was a matter the executive committee wrestled with, and there seemed

DOCUMENTATION

no consensus. But these were, to Weithman, two different concerns that ought to be addressed. Porter asked the chair to specify his course of action if the motion passed. Sheehan responded he would ask Quinn to chair the committee, seek volunteers from the senate, encourage wide discussion, and urge the committee to report a resolution in time for continued discussion at our next meeting. Sullivan had another concern: The primacy of academic appointments was important, but we should also insist that no outside intervention be permitted in administrative appointments either; this is a growing problem, if not here yet, then at other Holy Cross-affiliated schools. The question was called, and the senate voted unanimously to appoint an ad-hoc committee for this issue. Quinn announced his willingness to chair it.

The chair turned to the approval of the February 9 journal. McBrien moved to approve it, conditional on corrections called to the attention of the secretary; professor Donald Sporleder seconded. The senate agreed to the motion.

STANDING COMMITTEES

1. **Academic Affairs** — the chair professor Sonja Jordan was on leave in Bulgaria, but sent notice to the senate that the committee was working on a draft of a composite profile of the departmental responses to our request for information on their action in regard to the issue of Catholic character. This will be presented to the senate in April. Departments which have not responded are in the process of being re-contacted.
2. **Student Affairs** — the chair professor James Collins was unable to attend tonight's meeting, but asked the senate chair to report the following: The Women's Resource Center has delayed its application for recognition and status until the fall, at which time the senate will be asked to endorse it. Collins also wished to report for the ad-hoc committee on senate restructuring, which he chairs: They are waiting for nominations and suggestions from the faculty for outside evaluators; fact-finding at our peer institutions is continuing. Professor Paula Higgins asked if the AAUP might be helpful in recommending reviewers, and Quinn said other Faculty Senates might be contacted for recommendations; Sheehan will pass both suggestions to Collins.
3. **Benefits** — Affleck-Graves had no formal report, but asked for comments on the salary survey (distributed and discussed at the February meeting) for the final draft for presentation in April to the senate first, and then to the entire faculty.
4. **Administrative Affairs** — Higgins reported on three matters. First, the committee will present to the senate in April its recommendations on the revision of the bylaws.

Second, it will also have some suggestions for action in regard to the Faculty Board in Control of Athletics. Third, on the tenure appeals process, it has asked for information from peer institutions as well as from AAUP; when the fact-finding is over, it will report to the senate.

At 7:45 p.m. the senate broke for 45 minutes for committee meetings.

Upon reconvening, the chair announced that Detlefsen and McBrien had agreed to serve on the Quinn ad-hoc committee on the integrity of the academic appointments process. Porter asked to report on the ad-hoc committee preparing a response to the Colloquy; it had met, had made some preliminary observations and would have a written report to the senate no later than its last meeting of the academic year; this report would be for the senate to receive, not in the form of a resolution. Connolly pointed out that this was an important matter and hoped for a chance to comment and vote on it. Professor Edward Vasta said the senate can vote to receive it or not. Sheehan reminded the senate that this is the procedure we use in regard to the compensation report. For Connolly, a matter of this import, which might be published in the journal, should be open to comment. Porter said the irregular manner of appointment of this committee necessitated this procedure. In reality the senate can do what it wants with the committee report. Conway said the senate can take up that question when the report is presented, and recommended that the senate move on.

NEW BUSINESS

The senate turned to a consideration of a report presented by its ad-hoc committee on women's concerns. The committee chair, professor Louise Litzinger, speaking for the committee, said that it was established by the senate in October to look into the concerns expressed by senior women faculty which were not being adequately addressed, and also to see how women can be heard more effectively in the campus community, especially in dealing with the administration. Their work dealt especially with the structures and procedures in place and with recommendations for improvement. She moved the adoption of the committee's recommendations, which Conway seconded.

By way of background, she reported that the committee had visited representatives of several groups currently dealing with women's issues on campus, and had reviewed various reports on women's concerns. The most frequently voiced complaints centered on "the lack of effective structures, including an appeals process, to respond in a timely fashion to the many concerns of women . . ." The committee's report, as amended, is printed as appendix A of this journal. The committee was charged by the senate to see how its original request

DOCUMENTATION

for a committee to look after women's concerns and its request for a person in the provost's office to oversee these has been carried out. Conway pointed out that several non-senators, members of the committee, were present and asked to let them speak. Professor George Lopez moved (professor Thomas Cashore seconded) that the senate stand in recess at some point to allow them to speak, and the senate agreed to allow the chair to call a recess for this purpose. Members present were: Margaret Porter, Laura Bayard, Rita Donley and Arthur Grubert. Jean Porter said that during any recess the senate can engage only in informal discussion, not debate. The chair will announce when the senate will be in recess.

Lopez, speaking to the first recommendation, asked for more specificity in the proposed women's advocate that the president would appoint. Higgins responded that a parallel might be the executive assistant to the president. Litzinger was aware of the lack of specificity, and with the precedent in the executive assistant position; they were concerned that this advocate report directly to the president, and not so much with parallels and powers. Lopez wanted to know if this would be a kind of "special advisor for women's concerns," and Litzinger said yes. For Hamburg the wording in the resolution about this advocate's appointment needed clarification, especially in regard to protections like tenure. The preference would be for a senior woman faculty member with tenure to be appointed; but failing that, someone from outside the campus might have to be recruited to serve, and would not necessarily have tenure. This is a problem the committee recognized. Coll said some administrators have faculty appointments, but Litzinger pointed out that not all of them have tenure. Weithman mentioned that the recommendation gives the president extensive authority in this appointment and its responsibilities, but it is power he already has anyway.

Porter, agreeing in general with Weithman, said a resolution can't cover everything administratively or procedurally, but this one is a vast improvement over the current situation. She asked as a friendly amendment to strike the section "or by recruiting a senior woman to serve in this capacity" to which Litzinger agreed. Connolly, commenting on the proposal to restructure the Faculty/Student Committee on Women, asked if the committee had contacted the current committee for comment and response; he had been informed that that group had never been given the chance to discuss these proposed changes. Conway, a member of the ad-hoc committee as well as of the committee on women, said the committee was told of the ad-hoc committee's existence; the chair was informed too. He said they were given two opportunities, and no one responded to these offers. For Conway, the ad-hoc committee was a means to review what the senate had asked for years ago; the result of its recommendations had been compromised at that time,

and now it may be opportune to seek some re-structuring along the lines of those recommendations, especially by including University staff in the membership and responsibility of the committee. Vasta believed it was not the senate's place to tell the Faculty/Student Committee on Women how to restructure itself. Detlefsen returned to the appointment process and said it would be a tactical error to leave it to one person; appointment should be upon the recommendation of some reasonable entity, such as perhaps the senate itself.

Litzinger, responding to Connolly, said Conway kept the ad-hoc committee informed of the Faculty/Student Committee's work. At least four past and present members had talked to the ad-hoc committee. It seemed reasonable to report to the senate first, and ask that its recommendations be approved, before reporting to the structure it was asked to critique for their approval of the critique. This is the usual way for the senate to proceed in other matters. Their focus was on structures, and their recommendations to the senate reflect this.

Quinn spoke next as a former member of the Faculty/Student Committee. The only way the senate could get that committee established was to agree to have some members elected and some appointed, and to have its chair appointed. At times in his tenure there were numerous complaints about the committee's structure from the members, but the administration never acted on any of them. This had lead many colleagues to give up on it. To change that perception and to make the committee an effective body, we should critique it, as the ad-hoc committee has done, and bring these findings to the attention of the president. For Sullivan, the committee was the president's, but it was the senate's duty to suggest to him ways to make it more effective. He wondered why the committee did not recommend specific members to be appointed; further why did they feel an associate provost should remain an ex-officio member? Litzinger answered that the associate provost served an important role on the committee: to provide information and to serve as a direct line to and from the provost and the administration. The committee did not feel the associate provost should continue as chair, but strongly felt she should remain on the committee. Conway, responding to both Connolly and Sullivan, said the committee is in fact looking at itself, and he chairs a subcommittee to make recommendations for change, including the number of appointed and elected members. Conway, in order to clarify the discussion, moved to divide the committee's recommendations into four parts, to be discussed and voted upon in turn. Lombardo seconded, and the senate agreed to do so by a vote of 19 to four.

On the first part, Detlefsen recommended as a friendly amendment that we stipulate the manner of search and appointment for the women's advocate and not leave it

DOCUMENTATION

solely to the president. Ruccio went further and asked that we specify such an appointment would be made in consultation with the Faculty Senate, as the representative body of the entire faculty. This would be in keeping with the senate's role in other areas and would provide a means for information to be provided about the appointment in an open and timely manner. Detlefsen would stipulate in some way that such consultation be done prior to the fact. Hamburg asked if the president in a practical sense would ever agree to such a stipulation. Litzinger thought he would not; in fact this is why the ad-hoc committee didn't recommend this in the first place, and left appointment to him. Detlefsen felt we should do what we think is best for the University, not just what we think will sell. Quinn proposed language to try to incorporate the ideas of Detlefsen and Ruccio: This person would be chosen "by the president on the recommendation of a search committee elected by the Faculty Senate from among its members" Litzinger took that as a friendly amendment as did Detlefsen and Ruccio. Quinn said his amendment would provide a means to achieve our goal, but the president may still turn down any search committee's recommendation; in this case there would be some political cost to his turning down such a recommendation.

The chair declared a recess to hear from non-senate members of the committee. Porter mentioned that Donley, in the course of the committee's work, had studied the Colloquy report for gender references and found quite a few. Bayard thanked the senate for considering this issue as a vital one and saw senate action for change for the good of the University. For Porter her service on the Faculty/Student Committee was only partly successful; its procedures were informal at best; elected members had specified terms, but appointed ones seemed there forever, and this never allowed fresh ideas to come forward; she asked why the committee's minutes were not published in the *Notre Dame Report*. Hamburg wanted to know what the relationship would be between the committee and the proposed women's advocate — member, chair? Litzinger believed that such an advocate should be an ex-officio member. Bayard saw the advocate as someone who would receive reports, comments, complaints, etc., from all campus constituencies. Donley thought the importance of the appointment of an advocate was demonstrated by the example of the proposal on sexual harassment. It languished with no response for so long, and finally when addressed it was not all that had been proposed and asked. Lopez asked if the committee would favor the appointment of a women's advocate for a definite term, say three years. Litzinger agreed it might be worth pursuing. Professor Charles Parnell thought the wording of the proposal was unclear and felt *advocate* was better than *advocacy*. Connolly returned to the question of asking the Faculty/Student Committee for their views of

these proposals; have any ad-hoc committee members contacted individuals on the other committee? Donley responded that she had discussed them with a graduate student member, who since the time of the conversation is no longer on the committee. Connolly believed the ad-hoc committee had made a mistake in not consulting the Faculty/Student Committee. Vasta asked for clarification of the duties of the women's advocate; the issues listed would not apply only to women, but could be seen as general University problems. What would be the justification for the cost of such a position? Donley responded that the most important benefit would be that, with one person responsible, the diverse campus groups would not be faced with an administrative muddle when a problem arose. Vasta did not have a sense that a special women's advocate was indeed necessary. Donley disagreed; someone had to push the issues of importance to women to be resolved, even in an informal manner and in strict confidence. A survey recently had shown, according to Porter, that women do not feel safe in reporting cases of sexual harassment on this campus; the support system is just not there. A women's advocate would help. Ruccio said the report listed seven excellent reasons to support the position of a women's advocate, and many more could be brought up. We should get on with seeing to it that the senate approves the ad-hoc committee's recommendation.

The chair called the senate back into session. Hamburg wondered if the recommendation ought to spell out what the women's advocate would do; although this was clear to the committee, perhaps an administrator would not see it so clearly. Professor Thomas Cashore asked the senate not to destroy the committee's report which was completed, remarkably enough, on time. It has plenty of examples, and we should approve their work. Lopez offered a friendly amendment to the first resolution: The appointment would be for a "three-year term renewable." Litzinger agreed to this. Coll thought we should state in a positive way what the person will be asked to do. Sullivan disagreed; a job description is no more than an administrative detail and with the material in the ad-hoc committee's report we have provided the framework for a good one.

For Higgins, it seemed to be bad policy to collect women of the faculty, the staff and of the student body together, and expect one committee or one advocate to handle all the different problems and concerns of each group. Porter, saying social justice begins at home, drew on her experience as a faculty member who serves on a committee in her college which deals with staff issues to say that the injustices felt by the staff here are numerous and are connected to their gender as women. These problems can be taken together and there should be one place where women of each constituent group can go in safety for as-

DOCUMENTATION

sistance. This proposal for the first time takes seriously the grievances of the staff. Ruccio agreed and added that the advocate would not replace the currently existing structure and committees; it would only seek to be of assistance in resolving problems. Quinn reminded the senate that this proposal to address grievances of the staff was part of the senate's original proposal for a women's committee; in negotiating to establish the committee the administration was unwilling to include the staff; faculty and students thus would not be able to be informed of staff concerns and consequently could not support those concerns, effectively eliminating them from giving voice to these staff concerns and leaving staff only with an outlet for grievances in the Human Resources Department. We should not be content forever with this compromise situation, and now would be a good time to re-address the issue as one of social justice and gender. Higgins still worried that we were asking too much of one person; she was part of the original move to evaluate the Faculty/Student Committee, which a group of senior women faculty felt was not doing an adequate job; adding more responsibility would not improve its performance. Detlefsen called the question, Quinn seconded and the senate agreed to vote. The senate passed the first resolution unanimously.

The senate moved to the second resolution, as amended. Connolly wanted to support a restructuring proposal for the Faculty/Student Committee, but not until the current committee is consulted about these ideas for their response. He moved to table the resolution until this is done, probably by the next meeting. Vasta seconded. Lopez pointed out that members of the ad-hoc committee have served on the Faculty/Student Committee, and they have heard testimony from others who have served, all leading them to the recommendations they have made; while he may have liked a somewhat different procedure, they did what we asked and should be supported tonight. Detlefsen called the question on tabling, Porter seconded, but the senate did not agree to table the motion. Detlefsen called the question on the resolution and Porter seconded. The resolution passed with one dissenting vote (Connolly).

The senate moved to the third resolution on the establishment of a senate standing committee on women. The chair asked the committee to clarify its recommendation: Is it a fifth standing committee or a 4+1 set-up with membership overlapping? Litzinger would leave that to the senate to decide. The chair noted that passing the resolution would mean a change in the bylaws. Quinn said a fifth committee would mean fewer members on each one and an additional member of the executive committee; he felt neither outcome was especially desirable, and the late hour was not a time to decide on such an important issue. Litzinger would be open to other

suggestions on ways the senate might monitor progress on women's concerns. Detlefsen proposed a word change: "continuing" for standing, which Litzinger took as a friendly amendment. The senate's Administration Committee is taking up a full reform of the bylaws, and this would be assigned as part of their work, according to Sheehan. McBrien, considering the late hour, agreed with Quinn; he emphasized the commitment of the senate to the issue, symbolized by the committee's work and the votes so far this evening, but a matter like revising the bylaws is already in progress and this should be added to that work, which we can take up at a later meeting. Porter moved to refer the third resolution to the Administrative Affairs Committee, and Quinn seconded. The senate agreed to do so unanimously.

The senate then considered the fourth resolution on asking the president to include the provision of information about tenure, promotion and salary scale to ensure pay equity. Weithman requested a word change: "provision of" rather than an openness to providing, and Litzinger agreed. Detlefsen called the question and Porter seconded. The senate agreed to the resolution unanimously.

In other new business, Quinn announced that several faculty members are trying to re-activate the Notre Dame chapter of the AAUP. An informational and election meeting will be held on March 29 at 7:30 p.m. in 129 DeBartolo. It will be open to all, but to be a voter, a person must join.

Porter moved to adjourn, Bender seconded and the senate adjourned at 10:10 p.m.

Present: Affleck-Graves, Bandyopadhyay, Bender, Borelli, A., Bottei, Brownstein, Cashore, Coll, Connolly, Conway, Detlefsen, Esch, Goetz, Hamburg, Higgins, Litzinger, Lombardo, Lopez, McBrien, Miller, Moe, Parnell, Porter, Quinn, Ruccio, Sheehan, Simon, Sporleder, Stevenson, Vasta, Wei, Weithman, Yost (Graduate Student Representative)

Absent: Atassi, Bradley, Brennecke, Callahan, Eagan, Jenkins, Meyerson, Miscamble, Sauer, Serianni, Tomasch, Weinfield

Excused: Borelli, M., Burrell, Borkowski, Collins, Garg, Jordan, S.

Sincerely,

Peter J. Lombardo Jr.
Secretary

DOCUMENTATION

Appendix A

TO: Members of the Faculty Senate

FROM: Ad Hoc Committee on Women's Concerns:
Laura Bayard, Paul Conway, Rita Donley, Teresa
Ghilarducci, Arthur Grubert, Louise Litzinger
(Chair), Margaret Porter

DATE: February 24, 1994

RE: Recommendations

Background

The committee was charged with addressing two questions:

1. What are the concerns of women that are not adequately addressed within the current structures?
2. Given the limited number of women in senior positions across campus, how can women gain an effective voice in dealing with the administration?

At its second meeting (November), the committee invited members of the following groups to summarize the work of their committees and to express their concerns:

GENDER STUDIES (Ava Collins)
WOMEN'S RESOURCE COMMITTEE (Linda Chalk)
WOMEN'S RESOURCE CENTER (Linda Chalk)
FACULTY/STUDENT COMMITTEE ON WOMEN
Current members: Ava Collins and Paul Conway
Past members: Louise Litzinger and Margaret Porter
TEACHING AND RESEARCH FACULTY WOMEN'S
GROUP (Teresa Ghilarducci)

Concerns frequently surfaced include the following: a generally "chilly" climate which often ignores or limits opportunities for mentoring and networking; pay equity; scarcity of women in senior positions; lack of access to information. By far the most frequent and serious concern surfaced is the lack of effective structures, including an appeals process, to respond in a timely fashion to the many concerns of women as expressed by individuals or committees, in forums and in proposals.

Committee discussion has surfaced examples of numerous committees and task forces that gather information, develop reports, and make recommendations which do not get approved and/or implemented because:

1. At some level the process gets aborted or delayed; weeks and months go by with no feedback; in cases when a response does finally come, it is often in the form of a negative final decision or one that is considered inadequate by the parties involved because it has not included dialogue around issues of disagreement.

EXAMPLES:

- a. The Faculty/Student Committee on Women's proposal to the Office of the Provost, the Vice President for Student Affairs, and the Director of Human Resources regarding informal consultation as a first resource for complaints of sexual harassment. **PROPOSAL SUBMITTED 10/92; LETTER OF RESPONSE 1/20/94;** in addition to the lapse of time involved, the response did not adequately address the major concerns of the proposal.
 - b. With the endorsement of the Faculty Senate (4/27/93) and the Faculty/Student Committee on Women (2/5/93), the Graduate Student Union Women's Resource Committee sent a document proposing the establishment of a Women's Resource Center to the Officers of the University in April 1993. In September 1993, a response received from the Vice President for Student Affairs indicated that the proposal had been referred to Student Affairs and that, citing both financial and philosophical reasons, she could not support it. In a subsequent meeting she stated that there is **no appeal process** for this decision.
 - c. Requests by the Faculty Senate, senior faculty women, and others for information concerning decisions made at the various levels of the promotion and tenure process and information about salary scales are consistently denied.
 - d. Following years of petition and debate, establishment of a child care center was approved only after a public rally in the Spring of 1992 which attracted media attention.
2. A policy is developed and approved but no action is taken to implement it, to promulgate it, and/or to provide education and training.

THE GRADUATE SCHOOL OFFICE OF RESEARCH

EXAMPLES:

a. In the discriminatory harassment policy approved by Academic Council (4/16/91) and published in *Notre Dame Report* (August 1991) provision is made for an Ombuds-person to be appointed by the President; no such appointment had been known, until one was announced in February of 1994.

b. A policy on sexual harassment was approved by the Officers of the University and published in *Notre Dame Report*, January 1989. Except for its appearance in subsequent issues of *du Lac* and the *Faculty Handbook*, no adequate measures were taken to promulgate it or to provide education about the policy or about procedures for filing complaints.

c. An Inclusive Language Policy, recommended by the Faculty Senate and the Faculty/Student Committee on Women, was approved by Academic Council (2/13/91) and published in *Notre Dame Report* (8/2/91). It has not yet been properly promulgated or implemented in most classrooms, offices, or meetings.

Recommendations from the Faculty Senate to the President of the University

WHEREAS serious concern exists among women and men, faculty, staff, and students, regarding the ineffectiveness of current structures to adequately address the needs of women and to respond in a timely manner to proposals and recommendations raised by individuals and groups on this campus,

WHEREAS in a statement of his personal vision ("Colloquy for the Year 2000, Epilogue") the president of the University, addressing the "essential elements necessary for Notre Dame's continued growth as a great Catholic University," states the following,

We have eliminated the gender-based quota in undergraduate admissions and vigorously recruited female faculty and administrators. We are moving in the right direction but in some units of the University progress has been painfully slow and uneven. As our campus has been invigorated by the presence of larger numbers of women, we are being called to a new level of awareness about the impact of gender on the structures, processes and support systems that organize our common life.

WHEREAS the Faculty Senate has consistently supported and at times been actively involved in this move "in the right direction," specifically by recommending that a university wide committee to address such issues be established (1990),

WHEREAS the Faculty Senate's ad hoc committee established (Fall 1993) to evaluate the effectiveness of structures that address issues of concern to women finds the current structures inadequate,

BE IT RESOLVED THAT the Faculty Senate request of the President of the University the establishment of an advocate for women that would report directly to him and serve as an advocate for women's concerns for every constituency group. This person would be chosen by the president, on the recommendation of a search committee elected by the Faculty Senate from among its members, from among senior women faculty willing to serve and protected by tenure. The appointment would be for a three-year term renewable.

the Faculty Senate request of the President a restructuring of the Faculty/Student Committee on Women to include the following recommendations:

1. The concerns of women staff be added to the mission of the committee and the name of the committee be changed to reflect this addition.
2. The committee consist of members appointed by the president and of members elected by their peer groups to serve as their representatives; an associate provost would be an ex-officio member.
3. Term limits be established and enforced for appointed as well as elected members, including the chair.
4. Representation include members of each constituency group (faculty, students, staff).
5. Agenda and minutes of meetings be made public.
6. The chair of the committee be chosen by the committee from its membership. (In the current arrangement, the chair who is an associate provost represents both the administration and the committee.)

the Faculty Senate establish a continuing committee on the status of women. This committee would work closely with the advocate for women and with the restructured Faculty/Student Committee on Women to monitor the progress of recommendations and the implementation of policy concerning the status of women on campus.

the Faculty Senate request of the President of the University that the "new level of awareness about the impact of gender" include provision of information about tenure, promotion, and salary scales to ensure pay equity.

THE GRADUATE SCHOOL OFFICE OF RESEARCH

Current Publications and Other Scholarly Works

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

COLLEGE OF ARTS AND LETTERS

Economics

Mirowski, Philip E.

P.E. Mirowski. 1994. Charles Sanders Peirce. Pages 149-152 in, G. Hodgson, M. Tool and W. Samuels, eds., *Elgar Companion to Evolutionary and Institutional Economics*. Edward Elgar, Aldershot, United Kingdom.

P.E. Mirowski, ed. 1994. *Edgeworth on Chance, Economic Hazard and Statistics*. Rowman and Littlefield, Totowa, New Jersey. vii + 462 pp.

Government and International Studies

Dowty, Alan K.

A.K. Dowty. 1994. Sanctioning Iraq: The Limits of the New World Order. *The Washington Quarterly* 17(3):179-198.

History

Gleason, J. Philip

J.P. Gleason. 1994. American Catholics and Liberalism, 1789-1960. Pages 45-75 in, R.B. Douglass and D. Hollenbach, eds., *Catholicism and Liberalism: Contributions to American Public Philosophy*. Cambridge University Press, Cambridge, England.

J.P. Gleason and C.A. Ames. 1994. Catholic Americana at Notre Dame. Pages 21-41 in, M.L. Gleason and K.J. Blackstead, eds., *What Is Written Remains: Historical Essays on the Libraries of Notre Dame*. University of Notre Dame Press, Notre Dame, Indiana.

Murray, Dian H.

D.H. Murray and Q. Baoqi. 1994. *The Origins of the Tiandihui—The Chinese Triads in Legend and History*. Stanford University Press, Stanford, California. 350 pp.

Romance Languages and Literatures

Cachey, Theodore J., Jr.

See under University Libraries; Jordan, Louis E. 1994. Pages 85-104 in, *What Is Written Remains: Historical Essays on the Libraries of Notre Dame*.

Doering, Bernard E.

B.E. Doering. 1994. The Origin and Development of Maritain's Idea of the Chosen People. Pages 17-35 in, R. Royal, ed., *Jacques Maritain and the Jews*. University of Notre Dame Press, Notre Dame, Indiana.

Philosophy

Detlefsen, Michael

M. Detlefsen. 1993. Constructivism. Pages 656-664 in, *Companion Encyclopedia of the History and Philosophy of the Mathematical Sciences*. Volume 1.

Program of Liberal Studies

Nicgorski, Walter J.

W.J. Nicgorski and K.L. Deutsch. 1994. Introduction. Pages 1-40 in, W.J. Nicgorski and K.L. Deutsch, eds., *Leo Strauss: Political Philosopher and Jewish Thinker*. Rowman and Littlefield, Lanham, Maryland.

W.J. Nicgorski and K.L. Deutsch, eds. 1994. *Leo Strauss: Political Philosopher and Jewish Thinker*. Rowman and Littlefield, Lanham, Maryland. x + 396 pp.

Theology

Duffy, Regis A., OFM

R.A. Duffy, OFM. 1994. Review of Committed Worship: A Sacramental Theology for Converting Christians, by D. Gelpi. *Theological Studies* 55(2):172-175.

COLLEGE OF SCIENCE

Chemistry and Biochemistry

Miller, Marvin J.

M. Ghosh and M.J. Miller. 1994. Iron Transport-Mediated Drug Delivery: Synthesis and Biological Evaluation of Cyanuric Acid-Based Siderophore Analogs and β -Lactam Conjugates. *Journal of Organic Chemistry* 59:1020-1026.

Scheidt, W. Robert

T. Jelinek, P. Baldwin, W.R. Scheidt and C.A. Reed. 1993. New Weakly Coordinating Anions. 2. Derivatization of the Carborane Anion $\text{CB}_{11}\text{H}_{12}^-$. *Inorganic Chemistry* 32:1982-1990.

Thomas, J. Kerry

Y. Mao, K.K. Iu and J.K. Thomas. 1994. Chemical Reactions of Pyrene and Its Chlorinated Derivative on Silica-Alumina Surfaces Induced by Ionizing Radiation. *Langmuir* 10:709-716.

THE GRADUATE SCHOOL OFFICE OF RESEARCH

Mathematics

- Dwyer, William G.
W.G. Dwyer, D.M. Kan, J.H. Smith and C.R. Stover.
1994. A Π -Algebra Spectral Sequence for Function Spaces. *Proceedings of the American Mathematical Society* 120(2):615-621.
- Yin, Hong-Ming
J.M. Chadam and H.-M. Yin. 1993. A Diffusion Equation with Localized Chemical Reactions. *Proceedings of the Edinburgh Mathematical Society* 37:101-118.

Physics

- Aprahamian, Ani
J.W. Harris, et al.-STAR Collaboration (A. Aprahamian, N.N. Biswas and U. Garg). 1994. The STAR Experiment at the Relativistic Heavy Ion Collider. *Nuclear Physics A* 566:277c-286c.
- Biswas, Nripendra N.
See under, Aprahamian, Ani; 1994. *Nuclear Physics A* 566:277c-286c.
- Garg, Umesh
See under, Aprahamian, Ani; 1994. *Nuclear Physics A* 566:277c-286c.
- Glazier, James A.
C.L. Berthelsen, J.A. Glazier and S. Raghavachari. 1994. Effective Multifractal Spectrum of a Random Walk. *Physical Review E* 49(3):1860-1864.
- Kolata, James J.
See under Radiation Laboratory; LaVerne, Jay A. *Nuclear Instruments and Methods in Physics Research A* 340:546-550.

COLLEGE OF ENGINEERING

Aerospace and Mechanical Engineering

- Nee, Victor W.
See under Yang, Kwang-Tzu. 1994. *International Journal of Heat Mass Transfer* 37(Sup.1):415-423.
- Skaar, Steven B.
E. Baumgartner and S.B. Skaar. 1994. An Autonomous, Vision-Based Mobile Robot. *Institute of Electrical and Electronics Engineers Transactions on Automatic Control* 39(3):493-502.
- A. Makroglou, R. Miller and S.B. Skaar. 1994. Computational Results for a Feedback Control for a Rotating Viscoelastic Beam. *American Institute of Aeronautics and Astronautics Journal of Guidance, Control and Dynamics* 17(1):84-90.
- Stanisic, Michael M.
F. DiCaprio and M.M. Stanisic. 1994. The Kinematic Control Equations of a Singularity-Free Six-Degree-Of-Freedom Manipulator. *Transactions of the ASME - Journal of Mechanical Design* 116:17-21.

Yang, Kwang-Tzu

- Q.D. Liao, K.-T. Yang and V.W. Nee. 1994. An Analysis of Conjugate Heat Transfer from a Heated Wall in a Channel with Zero-Mean Oscillatory Flow for Small Oscillatory Flow Reynolds Numbers. *International Journal of Heat and Mass Transfer* 37(Sup.1):415-423.
- F.J. Hamady, J.R. Lloyd, K.-T. Yang and H.Q. Yang. 1994. A Study of Natural Convection in a Rotating Enclosure. *Journal of Heat Transfer* 116:136-143.

Civil Engineering and Geological Sciences

- Gray, Kimberly A.
M.S. Dieckmann, K.A. Gray and R.G. Zepp. 1994. The Sensitized Photocatalysis of Azo Dyes in a Solid System: A Feasibility Study. *Chemosphere* 28(5):1021-1034.
- Kirkner, David J.
See under, Spencer, Billie F., Jr. *Journal of Aircraft* 31(2):433-440.
- Spencer, Billie F., Jr.
S. Kandarpa, B.F. Spencer, Jr., D.J. Kirkner and M. Champion. 1994. Determination of Tire-Wheel Interface Loads for Aircraft Wheels. *Journal of Aircraft* 31(2):433-440.

Electrical Engineering

- Huang, Yih-Fang
V.C. Soon, L. Tong, Y.-F. Huang and R.-w. Liu. 1993. A Robust Method for Wideband Signal Separation. Pages 703-706 in, *Proceedings 1993 IEEE International Symposium on Circuits and Systems*. Chicago, Illinois.
- Lent, Craig S.
See under Porod, Wolfgang. 1994. *Physical Review B* 49(11):7453-7465.
- Liu, Ruey-wen
S. Yu and R.-w. Liu. 1993. A New Edge Detection Algorithm: Fast and Localizing to a Single Pixel. Pages 539-542 in, *Proceedings 1993 International Symposium on Circuits and Systems*. Chicago, Illinois.
- H. Chen and R.-w. Liu. 1994. An On-Line Unsupervised Learning Machine for Adaptive Feature Extraction. *IEEE Transactions on Circuits and Systems-II: Analog and Digital Signal Processing* 41:87-98.
- H. Chen and R.-w. Liu. 1993. An On-Line Unsupervised Learning Machine for Adaptive Feature Extraction. Pages 535-538 in, *Proceedings 1993 IEEE International Symposium on Circuits and Systems*. Chicago, Illinois.
- H. Chen and R.-w. Liu. 1993. Domain of Attraction on Adaptive Feature Extraction of Nonstationary Processes. Pages 589-592 in, *IEEE International Conference on Acoustics, Speech and Signal Processing*. Minneapolis, Minnesota.

THE GRADUATE SCHOOL OFFICE OF RESEARCH

L. Tong, Y. Inouye and R.-w. Liu. 1993. Waveform-Preserving Blind Estimation of Multiple Independent Sources. *IEEE Transactions on Signal Processing* 41:2461-2470.

See under Huang, Yih-Fang. 1993. Pages 703-706 in, Proceedings 1993 IEEE International Symposium on Circuits and Systems.

Porod, Wolfgang

Z.-a. Shao, W. Porod and C.S. Lent. 1994. Transmission Resonances and Zeros in Quantum Waveguide Systems with Attached Resonators. *Physical Review B* 49(11):7453-7465.

LAW SCHOOL

Shaffer, Thomas L.

T.L. Shaffer. 1994. An Equal Player. Review of The Culture of Disbelief, by S.L. Carter. *Christian Legal Society Quarterly* Spring 1994:11.

O'NEILL CHAIR IN EDUCATION FOR JUSTICE

Goulet, Denis A.

D.A. Goulet. 1994. Participatory Technology Assessment: Institutions and Methods. *Technological Forecasting and Social Change* 45(1):47-61.

RADIATION LABORATORY

Chipman, Daniel M.

D.M. Chipman, R. Liu, X. Zhou and P. Pulay. 1994. Structure and Fundamental Vibrations of Phenoxy Radical. *Journal of Chemical Physics* 100(7):5023-5035.

LaVerne, Jay A.

A. Hitachi, J.A. LaVerne, J.J. Kolata and T. Doke. 1994. Energy Resolution of Allene Doped Liquid Argon Detectors for Ions of Energy 23-34 MeV/amu. *Nuclear Instruments and Methods in Physics Research A* 340:546-550.

UNIVERSITY LIBRARIES

Ames, Charlotte A.

See under College of Arts and Letters, History; Gleason, J. Philip. 1994. Pages 21-41 in, What Is Written Remains: Historical Essays on the Libraries of Notre Dame.

Bayard, Laura

L. Bayard and S.M. Hayes. 1994. Government Documents and the Depository: The Notre Dame Contribution. Pages 42-66 in, M.L. Gleason and K.J. Blackstead, eds., What Is Written Remains: Historical Essays on the Libraries of Notre Dame. University of Notre Dame Press, Notre Dame, Indiana.

Blackstead, Katharina J.

See under Gleason, Maureen L. 1994. What Is Written Remains: Historical Essays on the Libraries of Notre Dame.

Fuderer, Laura

L. Fuderer. 1994. Rare Books and Special Collections at the University of Notre Dame. Pages 171-188 in, M.L. Gleason and K.J. Blackstead, eds., What Is Written Remains: Historical Essays on the Libraries of Notre Dame. University of Notre Dame Press, Notre Dame, Indiana.

Gleason, Maureen L.

M.L. Gleason and R.J. Havlik. 1994. Automation in the Libraries: An Unfinished Story. Pages 238-256 in, M.L. Gleason and K.J. Blackstead, eds., What Is Written Remains: Historical Essays on the Libraries of Notre Dame. University of Notre Dame Press, Notre Dame, Indiana.

M.L. Gleason. 1994. Dollars, Donors, and Determination: Collection Building in the Notre Dame Libraries. Pages 117-143 in, M.L. Gleason and K.J. Blackstead, eds., What Is Written Remains: Historical Essays on the Libraries of Notre Dame. University of Notre Dame Press, Notre Dame, Indiana.

M.L. Gleason and K.J. Blackstead, eds. 1994. What Is Written Remains: Historical Essays on the Libraries of Notre Dame. University of Notre Dame Press, Notre Dame, Indiana. x + 264 pp.

Havlik, Robert J.

See under, Gleason, Maureen L. 1994. Pages 238-256 in, What Is Written Remains: Historical Essays on the Libraries of Notre Dame.

Hayes, Stephen M.

See under, Bayard, Laura. 1994. What Is Written Remains: Historical Essays on the Libraries of Notre Dame.

Jordan, Louis E.

L.E. Jordan, T.J. Cachey, Jr. and C. Dupont. 1994. The John A. Zahm Dante Collection. Pages 85-104 in, M.L. Gleason and K.J. Blackstead, eds., What Is Written Remains: Historical Essays on the Libraries of Notre Dame. University of Notre Dame Press, Notre Dame, Indiana.

Jordan, Sophia K.

S.K. Jordan. 1994. Notre Dame's Contribution to the Order of Knowledge in America. Pages 146-170 in, M.L. Gleason and K.J. Blackstead, eds., What Is Written Remains: Historical Essays on the Libraries of Notre Dame. University of Notre Dame Press, Notre Dame, Indiana.

Krieger, Alan D.

A.D. Krieger. 1994. Notre Dame Library Collections of the Nineteenth Century: The Legacy of the Fire of 1879. Pages 4-20 in, M.L. Gleason and K.J. Blackstead, eds., What Is Written Remains: Historical Essays on the Libraries of Notre Dame. University of Notre Dame Press, Notre Dame, Indiana.

THE GRADUATE SCHOOL OFFICE OF RESEARCH

Miller, Robert C.

R.C. Miller. 1994. The Reverend Edmund P. Joyce, C.S.C., Sports Research Collection. Pages 230-237 *in*, M.L. Gleason and K.J. Blackstead, eds., *What Is Written Remains: Historical Essays on the Libraries of Notre Dame*. University of Notre Dame Press, Notre Dame, Indiana.

R.C. Miller. 1994. The University Libraries and Notre Dame: A Chronology. Pages 257-264 *in*, M.L. Gleason and K.J. Blackstead, eds., *What Is Written Remains: Historical Essays on the Libraries of Notre Dame*. University of Notre Dame Press, Notre Dame, Indiana.

Smyth, Marina B.

M.B. Smyth. 1994. The Medieval Institute Library: A Brief History. Pages 211-229 *in*, M.L. Gleason and K.J. Blackstead, eds., *What Is Written Remains: Historical Essays on the Libraries of Notre Dame*. University of Notre Dame Press, Notre Dame, Indiana.

Stevenson, Marsha

M. Stevenson. 1994. Style and Symbol: Library Buildings at Notre Dame. Pages 189-210 *in*, M.L. Gleason and K.J. Blackstead, eds., *What Is Written Remains: Historical Essays on the Libraries of Notre Dame*. University of Notre Dame Press, Notre Dame, Indiana.

Tarrago, Rafael E.

R.E. Tarrago. 1994. The Latin American Library of Father Zahm. Pages 105-116 *in*, M.L. Gleason and K.J. Blackstead, eds., *What Is Written Remains: Historical Essays on the Libraries of Notre Dame*. University of Notre Dame Press, Notre Dame, Indiana.

THE GRADUATE SCHOOL OFFICE OF RESEARCH

Awards Received and Proposals Submitted

In the period March 1, 1994, through March 31, 1994

AWARDS RECEIVED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	12	1,596,271	9	371,805	21	1,968,076
Facilities and Equipment	0	0	0	0	0	0
Instructional Programs	0	0	1	45,000	1	45,000
Service Programs	0	0	34	218,177	34	218,177
Other Programs	<u>0</u>	<u>0</u>	<u>1</u>	<u>7,500</u>	<u>1</u>	<u>7,500</u>
Total	12	1,596,271	45	642,482	57	2,238,753

PROPOSALS SUBMITTED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	10	1,157,223	21	6,714,236	31	7,871,459
Facilities and Equipment	0	0	3	1,086,455	3	1,086,455
Instructional Programs	0	0	0	0	0	0
Service Programs	0	0	0	0	0	0
Other Programs	<u>0</u>	<u>0</u>	<u>6</u>	<u>425,519</u>	<u>6</u>	<u>425,519</u>
Total	10	1,157,223	30	8,226,210	40	9,383,433

THE GRADUATE SCHOOL OFFICE OF RESEARCH

Awards Received

In the period March 1, 1994, through March 31, 1994

AWARDS FOR RESEARCH

Aerospace and Mechanical Engineering

Skaar, S.
Production Control System - III
McDonald's Corporation
\$19,472 14 months

School of Architecture

Younes, S.
Of Principles and Rules in Architecture
Graham Foundation
\$7,500 12 months

Biological Sciences

Mossing, M.
Structure and Function of Cro Variants
National Institutes of Health
\$97,357 12 months

Kulpa, C.
Biodegradation of MTBE
Amoco Chemical Research Center
\$104,000 12 months

Johnson, A.
Plasminogen Activator and Steroidogenesis During Growth
Department of Agriculture
\$31,350 9 months

Civil Engineering and Geological Sciences

Silliman, S.
Particle Transport through Heterogeneous Porous Media
Department of Energy
\$102,008 12 months

Kirkner, D.
Nonlinear Analysis of Flexible Pavement Systems
Department of the Army
\$22,740 11 months

Chemical Engineering

Wolf, E.
AFM and STM Studies of Catalysts
National Science Foundation
\$70,823 24 months

Kantor, J.
Studies on Integrated Process Monitoring and Control
National Science Foundation
\$70,000 24 months

Chemistry and Biochemistry

Scheidt, W.
X-Ray and Chemical Studies of Metalloporphyrins
National Institutes of Health
\$252,102 12 months

Castellino, F.
Diagnostic Method or Kit to Detect Alzheimers Disease
American Bio. Sciences
\$31,900 12 months

Miller, M.
Siderophores, Analogs and Bioconjugates: Synthesis and Study
National Institutes of Health
\$236,318 12 months

Blasquez, V.
Structure/Function of Chromatin in B-Cell Development
National Institutes of Health
\$90,933 12 months

Center for Study of Contemporary Society

Hallinan, M.
Tracking Effects on Mathematics Achievement and Attainment
National Science Foundation
\$42,477 12 months

Electrical Engineering

Liu, R., Huang, Y.
Reliable Robust Wideband Array Signal Processing
Department of the Navy
\$97,484 47 months

Bauer, P.
High Speed Delta-Operator Discrete Time Systems
Department of the Navy
\$39,431 12 months

Costello, D.
Bandwidth Efficient Coding and Coded Modulation Techniques
NASA - Goddard Space Flight
\$67,000 12 months

Miller, A., Das, B., et al.
Superconducting Quantum Structures
Purdue University
\$1,474 12 months

THE GRADUATE SCHOOL OFFICE OF RESEARCH

Physics

Biswas, N., Ruchti, R., et al.
Particle Production and Detector Development
National Science Foundation
\$295,000 12 months

Psychology

Borkowski, J., Whitman, T., et al.
Precursors of Retardation in Children with Teen Mothers
National Institutes of Health
\$186,672 12 months

Cole, D.
Competency-Based Model of Depression
National Institutes of Health
\$102,035 12 months

AWARDS FOR INSTRUCTIONAL PROGRAMS

Civil Engineering and Geological Sciences

Gray, W.
REU Site in CE/GEOS at the University of Notre Dame
93-95
National Science Foundation
\$45,000 24 months

AWARDS FOR SERVICE PROGRAMS

Notre Dame Center for Pastoral Liturgy

Bernstein, E.
Center for Pastoral Liturgy
Various Others
\$4,060 1 month

Center for Pastoral Liturgy
Various Others
\$3,796 1 month

Center for Pastoral Liturgy
Various Others
\$8,666 1 month

Center for Pastoral Liturgy
Various Others
\$977 1 month

Center for Pastoral Liturgy
Various Others
\$777 1 month

Center for Pastoral Liturgy
Various Others
\$850 1 month

Center for Pastoral Liturgy
Various Others
\$5,118 1 month

Center for Pastoral Liturgy
Various Others
\$2,418 1 month

Center for Pastoral Liturgy
Various Others
\$420 1 month

Center for Pastoral Liturgy
Various Others
\$4,794 1 month

Center for Pastoral Liturgy
Various Others
\$4,360 1 month

Center for Pastoral Liturgy
Various Others
\$2,128 1 month

Center for Pastoral Liturgy
Various Others
\$2,128 1 month

Center for Pastoral Liturgy
Various Others
\$6,620 1 month

Center for Pastoral Liturgy
Various Others
\$2,706 1 month

Center for Pastoral Liturgy
Various Others
\$12,911 1 month

Tebbe, F.
Center for Pastoral Liturgy
Various Others
\$200 1 month

Center for Continuing Formation in Ministry

Cannon, K.
Center for Continuing Formation in Ministry
Various Others
\$17,171 1 month

Center for Continuing Formation in Ministry
Various Others
\$12,957 1 month

Center for Continuing Formation in Ministry
Various Others
\$19,560 1 month

Center for Continuing Formation in Ministry
Various Others
\$8,174 1 month

Center for Continuing Formation in Ministry
Various Others
\$22,388 1 month

Center for Continuing Formation in Ministry
Various Others
\$38,164 1 month

Center for Continuing Formation in Ministry
Various Others
\$4,859 1 month

THE GRADUATE SCHOOL OFFICE OF RESEARCH

Bernstein, E.

Center for Continuing Formation in Ministry

Various Others

\$683 1 month

Institute for Church Life

Cannon, K.

Dynamic Parish

Various Others

\$1,100 1 month

Institute for Church Life

Various Others

\$2 1 month

Dynamic Parish

Various Others

\$9 1 month

Institute for Church Life

Various Others

\$4 1 month

Programs for Church Leaders

Tebbe, F.

Program for Church Leaders

Various Others

\$162 1 month

Program for Church Leaders

Various Others

\$1,524 1 month

Program for Church Leaders

Various Others

\$2,400 1 month

Program for Church Leaders

Various Others

\$23,691 1 month

Program for Church Leaders

Various Others

\$2,400 1 month

AWARDS FOR OTHER PROGRAMS

Civil Engineering and Geological Sciences

Marley, J.

GEM M.S. Engineering Fellows

Graduate Education for Minorities

\$7,500 24 months

Proposals Submitted

In the period March 1, 1994, through March 31, 1994

PROPOSALS FOR RESEARCH

Aerospace and Mechanical Engineering

Skaar, S.

Production Control System - III

McDonald's Corporation

\$20,464 6 months

Renaud, J., Schmid, S., et al.

Environmentally Conscious Design and Manufacturing

National Science Foundation

\$1,049,255 60 months

Skaar, S., Mueller, T.

Robust Assembly of Complex Structures

Yoder Software Inc.

\$61,959 12 months

Biological Sciences

Lamberti, G., Lodge, D., et al.

Interactions of Zebra Mussel and Rusty Crayfish

Environmental Protection Agency

\$178,397 12 months

McAbee, D., Sitaram, M.

Molecular Basis of Lactoferrin-Protein Interactions

National Institutes of Health

\$28,231 12 months

Fraser, M.

Transposon Mutagenesis of Nuclear Polyhedrosis

Viruses

National Institutes of Health

\$85,374 12 months

Lodge, D.

Predation in Zebra Mussels

Water Resource Research Center

\$66,064 12 months

McAbee, D.

Isolation/Analysis of Hepatic Lactoferrin Receptor

American Heart Association-Ind.

\$32,383 12 months

Civil Engineering and Geological Sciences

Pyrak-Nolte, L.

Energy Partitioning of Seismic Waves

Department of Energy

\$80,051 12 months

Ketchum, L.

A.J. Boehm Fellowship

American Sport-fishing Association

\$7,235 12 months

THE GRADUATE SCHOOL OFFICE OF RESEARCH

Ketchum, L., Carlton, R.
Investigation of Slow Sand Filter
AWWA Research Foundation
\$134,523 24 months

Gray, W.
Laboratory and Numeric Studies of Multiphase Transport
Argonne National Laboratory
\$74,998 12 months

Kareem, A., Szewczyk, A.
Aerodynamics of Long-Span Bridge
National Science Foundation
\$438,050 36 months

Makris, N.
Nonlinear Response of Pile Foundations
National Science Foundation
\$221,585 36 months

Chemical Engineering

Wolf, E., Varma, A., et al.
GRT in Catalysis and Reaction Engineering
National Science Foundation
\$1,054,255 60 months

McGinn, P.
Processing of Textured Superconducting Microlaminates
Purdue University
\$48,926 12 months

Leighton, D.
Reversible Reaction Induced Separations
National Science Foundation
\$360,299 36 months

Kantor, J.
Studies on Integrated Process Monitoring and Control
National Science Foundation
\$107,888 12 months

Chemistry and Biochemistry

Basu, M.
Glycolipid Biosynthesis in Human Neuroblastoma Cells
American Cancer Society
\$349,880 36 months

McKee, E.
Regulation of Mitochondrial Protein Synthesis
I.U. School of Medicine
\$36,850 12 months

Basu, S.
Inhibition of Prostate and Colon Tumor Cell Growths
United Health Services
\$9,600 12 months

Blasquez, V.
NIH Research Supplement for Unrepresented Minorities
National Institutes of Health
\$7,138 3 months

Smith, B.
Ara-C Prodrugs for Ara-C Resistant Tumors
United Health Services
\$46,363 12 months

College of Engineering

Michel, A., Wang, K.
Qualitative Analysis and Control Applications of Neural Networks
National Science Foundation
\$247,866 36 months

Lobund Laboratory

Pollard, M., Luckert, P.
Prevention of Experimental Prostate Cancer by Diet
United Health Services
\$201,509 12 months

Mathematics

Yin, H.
Some Problems in Nonlinear Parabolic PDE's
National Science Foundation
\$80,276 36 months

Institute for International Peace Studies

Johansen, R.
Strengthening United Nations Enforcement
U.S. Institute of Peace
\$57,880 15 months

Physics

Marshalek, E.
Theoretical Studies in Nuclear Structure
Department of Energy
\$319,024 36 months

Tegler, S., Rettig, T.
A Survey of the XCN/H₂O Abundance in Taurus
Science and Engineering Research Council
\$0 6 months

Bunker, B.
Development of the MRCAT Undulator Beamline
National Science Foundation
\$2,086,638 36 months

Psychology

Merluzzi, T., Maxwell, S.
Fighting Spirit: A Self-Efficacy Analysis of Resilience
American Cancer Society
\$378,498 36 months

THE GRADUATE SCHOOL OFFICE OF RESEARCH

PROPOSALS FOR FACILITIES AND EQUIPMENT

Aerospace and Mechanical Engineering

Mason, J., Powers, J., et al.
Ultra-High-Speed Camera
National Science Foundation
\$427,718 24 months

Anthropology

Schurr, M., Sheridan, S.
Bone Chemistry Laboratory Equipment and
Instrumentation
National Science Foundation
\$72,832 12 months

College of Science

Glazier, J., Nowak, T.
Acquisition of Wide Bore Magnetic Resonance Imager
National Science Foundation
\$585,905 24 months

PROPOSALS FOR OTHER PROGRAMS

Biological Sciences

Carlton, R.
Methane Cycling and Release From Littoral Sediments
National Aero. Space Administration
\$31,834 12 months

Kellogg Institute for International Studies

McAdams, A.
Political Justice and the Transition to Democracy
U.S. Institute of Peace
\$42,211 13 months

Medieval Institute

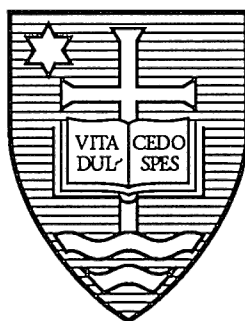
English, E.
Sex and Gender in the Middle Ages
National Endowment for the Humanities
\$115,719 12 months

Sociology

Williams, R.
Agenda 21: Translating Scientific Knowledge into
Policy
National Aero. Space Administration
\$48,936 12 months

Academic Services for Student Athletes

Marlowe, D.
NYSP-ND
Step Ahead Youth Services
\$73,627 5 months
NYSP-ND Sport Science Component
NCAA
\$113,192 1 month



NOTRE DAME REPORT

Volume 23, Number 17

May 13, 1994

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, Security Building, University of Notre Dame, Notre Dame, IN 46556.

Linda M. Diltz, Editor
Marten Schalm, Designer
Willa Murphy, Gerard Jacobitz, Layout
Publications and Graphic Services
415 Main Building
Notre Dame, IN 46556
(219) 631-5337

© 1994 by the University of Notre Dame, Notre Dame, IN 46556. All rights reserved.

