

NOTRE DAME REPORT

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FEBRUARY 17, 1995 • NUMBER 11

Provost Search Committee Elected

The Academic Council elected a six-member search committee to assist in the process of selecting the next provost. In accordance with the academic articles of the University, the council chose five of its elected faculty members and one of its student members for the search committee. Also in accordance with the articles, Rev. Edward A. Malloy, C.S.C., will chair the committee.

The elected members of the committee are: Hafiz M. Atassi, professor of aerospace and mechanical engineering and co-director of the Center for Applied Mathematics; Carolyn M. Callahan, associate professor of accountancy; Cornelius F. Delaney, professor of philosophy; Fernand N. Dutile, associate dean and professor of law; Stacey M. Kielbasa, a junior government major and student government academic commissioner; and Andrew J. Sommese, Duncan professor of mathematics.

The search committee will receive and consider nominations for provost from the faculty and other sources. When this process is complete, Malloy will consult with the elected faculty members of the council concerning all serious candidates. He then will report the complete results of the search and consultations to the Board of Trustees, along with a personal recommendation. It is the responsibility of the trustees to elect the new provost.

The new provost will succeed Timothy O'Meara, provost since 1978. O'Meara will step down as provost June 30, 1996. He will remain on the faculty as provost emeritus and Kenna professor of mathematics until 1998.

House to be Constructed With Alumni Association Gift

An anonymous gift of \$50,000 to the Notre Dame Alumni Association will underwrite the construction of a house for a low-income family in the Watts community of Los Angeles. The house will be built by volunteers, primarily members of the Alumni Association and Notre Dame students from the Los Angeles area, during the Habitat for Humanity's 1995 Jimmy Carter Work Project, June 18-24.

Alumni and students will join President Jimmy Carter, his wife, Rosalynn, and some 2000 other Habitat volunteers in a five-day "blitz-building" project to construct houses for 30 families in the Watts area.

The Alumni Association's community service program is committed to encouraging and expanding such efforts by fostering an awareness among alumni of the role of Christian faith in community service; deepening alumni

sensitivity to the plight of poor and oppressed people in their communities; suggesting means by which alumni might positively affect their communities; and providing opportunities for prayer and reflection on the meaning of community service.

Habitat for Humanity is an ecumenical, Christian ministry that seeks to eradicate dilapidated housing using volunteer labor, management expertise and tax-deductible donations of money and materials. The organization accepts no state or federal funding. Habitat houses are sold at no profit to "partner families" whose members are issued no-interest mortgages and required to invest "sweat equity" hours in the construction. The mortgages are repaid over periods ranging from seven to 20 years.

Scholarships Total \$11.5 Million

According to a report from the Office of Financial Aid, University-administered scholarship aid for the current academic year totalled \$11.5 million, more than twice the \$5.4 million distributed in 1989-90, the year the Board of Trustees established the long-range goal of meeting the full demonstrated financial need of all students.

The scholarship and grant assistance includes funds awarded to Notre Dame Scholars — students designated the most accomplished among each incoming class — as well as Holy Cross grants awarded primarily to minority students based upon their academic and personal records and proven ability to overcome economic or social disadvantages. With these and with all Notre Dame-based financial aid programs, demonstrated financial need is an essential consideration in addition to outstanding academic and personal records.

Total financial aid for 1994-95 — including scholarships, loans, grants and jobs — is projected to be a record \$92.5 million, a 5-percent increase from last year.

Other highlights of the report:

- Loans to students and their parents account for \$32.6 million of the \$36.7 million from federal assistance programs. The remaining \$4.1 million comes in the form of grants and work-study programs.
- Nonfederal financial aid — including scholarships earned from outside the University, alternative loans, grants-in-aid, tuition remissions and University student employment — rose 6 percent to \$48.6 million.
- ROTC scholarships rose by an average of almost \$3,000 per student and totalled \$7.2 million.
- 67 percent of Notre Dame undergraduates and 84 percent of graduate students are receiving aid this year.
- Of the \$92.5 million in aid distributed, about \$57.7 million is going to undergraduates and \$34.8 million to graduate students.

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Honors

Ruey-wen Liu, Freimann professor of electrical engineering, was elected president of the Circuits and Systems Society of the Institute of Electrical and Electronics Engineers for 1995. The society has more than 16,000 members, eight transactions (and a dozen international conferences) covering the topics of fundamental theory, signal processing, video technology, computer-aided design, neural networks, fuzzy systems, solid-state circuits, and very large scale integration systems.

Anthony N. Michel, McCloskey dean of engineering and Freimann professor of electrical engineering, was reappointed vice president of Technical Activities of the IEEE Control Systems Society for 1995. He is a member of the board of governors of the IEEE Control Systems Society and an associate editor-at-large for the *IEEE Transactions on Automatic Control* for 1995.

Lee A. Tavis, Smith professor of business administration, was appointed to the Inter-American Foundation Doctoral Field Research Fellowship Program Committee.

Activities

Hafiz M. Atassi, professor of aerospace and mechanical engineering and director of the Center for Applied Mathematics, presented a paper titled "Acoustic Blockage Effects in Unsteady Transonic Nozzle and Cascade Flows" at the 33rd Aerospace Sciences Meeting and Exhibit in Reno, Nev., Jan. 9-12.

Danny Z. Chen, assistant professor of computer science and engineering, gave the talk "On the All-Pairs Euclidean Short Path Problem" at the sixth annual ACM-SIAM Symposium on Discrete Algorithms in San Francisco, Calif., Jan. 22-24.

Thomas F. Cosimano, associate professor of finance and business economics, presented the paper "Liquid Effects and Asset Pricing in a General Equilibrium Model with Production" co-authored with Ralph Chami and James D. Peterson, assistant professor of finance and business economics, at the Econometric Society Meetings in Washington, D.C., Jan. 8.

James T. Cushing, professor of physics, gave the invited seminar "Who Was Correct About Quantum Mechanics: Bohr or Einstein?" at the University of Leeds in Leeds, England, Jan. 18. He delivered the talks "Some Recent Developments in Bohmian Mechanics" at Queen Mary College in London, England, Jan. 23. He presented "Can Tunneling Times Be Used to Distinguish Between 'Copenhagen' and 'Bohm'?" at Cambridge University in

Cambridge, England, Jan. 24. He gave the talk "How the Causal Quantum Theory Program was Marginalized" at the University of Munich in Munich, Germany, Jan. 27.

Keith J. Egan, adjunct professor of theology, collaborated with composer Jeffrey Jacobs in the selection and integration of texts from T.S. Eliot's "Four Quartets" for Jacobs' composition of the new symphony "Winter Lightning." The premier performance was by the Indianapolis Symphony Orchestra at Saint Mary's College, Notre Dame, Ind., Dec. 20. Egan read the texts for this performance.

Denis Goulet, O'Neill professor of economics, delivered the keynote address on "A New Discipline: Development Ethics" at the International Development Ethics Association Conference on International Development Ethics: Challenges for the 21st Century held at the Universidad de Costa Rica in San José, Costa Rica, Jan. 11.

Alexander J. Hahn, professor of mathematics, gave the invited talk "A Modern Calculus Course from the Manuscripts of the Masters" at the special session of the Mathematical Association of America "Teaching with Original Sources" held at the joint meeting of the American Mathematical Society and the Mathematics Association of America in San Francisco, Calif., Jan. 4-7.

Kwan S. Kim, professor of economics and faculty fellow in the Kellogg Institute, served as chair and a discussant in the sessions "Issues in the Korean Development" and "External Debt Problems of Developing Nations" at the 1995 Allied Social Science Association meetings in Washington, D.C., Jan. 5-7. He lectured on "Strategic Industrial Management: Lessons from the East Asian Experience" at the Maastricht School of Management in The Netherlands, Jan. 10-16.

Thomas V. Merluzzi, associate professor of psychology, presented the paper "Factor Structure of the Psychosocial Adjustment to Illness Scale for Persons with Cancer" at the annual convention of the Association for the Advancement of Behavior Therapy in San Diego, Calif., Nov. 11.

Ingrid M. Müller, assistant professor of biological sciences, gave a seminar titled "Some Aspects of T Cell Responses Elicited During Infection of Mice with Leishmania Major" and discussed a scientific collaboration at Bar Harbor, Maine, Nov. 4-5.

Philip E. Mirowski, Koch professor of economics, gave the invited presentation "Gerard Debreu and Mathematical Bourbakism" at the joint session of the AEA/HES, ASSA meetings in Washington, D.C., Jan. 6. He presented "A Visible Hand in the Marketplace of Ideas" at the seminar in History and Philosophy of Science at Northwestern University in Evanston, Ill., Jan. 20. He gave the invited presentation "Mandelbrot's Economics After a Quarter

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Century" at the Mandelbrot Symposium in Curaçao, Feb. 4.

Clive R. Neal, assistant professor of civil engineering and geological sciences, chaired the session "Petrogenesis" at the American Geophysical Union 1994 fall meeting in San Francisco, Calif., Dec. 5-9. He presented "Magma-wallrock Interactions and the Key to Reversed Fractionation in Megacryst Petrogenesis" and gave the posters "An Estimate of Uplift Associated with the Ontong Java Plateau and the Importance of Cumulates" and "Trace-element Characteristics of a 3-5-4 km Thick Section of OJP Basalts, Malaita, Solomon Islands" at that meeting.

Walter Nugent, Tackes professor of history, conducted a faculty seminar on "Comparative New-World Migration History" at the University of Texas in El Paso, Tex., Jan. 9-10.

Jean Porter, associate professor of theology, participated in a panel discussion of *Veritatis Splendor* at the annual meeting of the Society of Christian Ethics in Washington, D.C., Jan. 7.

Steven T. Ruggiero, associate professor of physics, presented the talk "High-Field Effects in Single-Electron Systems" at the 100 Tesla Workshop in Los Alamos, N.Mex., Jan. 19. He presented the paper "Transport and Far-Infrared Properties of YBCO Thin Films" at the winter meeting of the Midwest Superconductivity Consortium in Columbus, Ohio, Jan. 27.

Rev. Timothy R. Scully, C.S.C., vice president and associate provost, associate professor of government and international studies and senior faculty fellow in the Kellogg Institute, gave the lecture "The Alliance for Catholic Education: A Challenge" at the Oregon Education Research Association in Portland, Oreg., Nov. 4. He gave the lecture titled "The Future Promise of a Catholic University" at St. Thomas University in Miami, Fla., Jan. 14. He presented the lecture "The Church, Democracy, and Development" to the World President's Organization in Santiago, Chile, Jan. 27.

Gregory E. Sterling, assistant professor of theology, ran the Philo of Alexandria Conference at the University of Notre Dame, Notre Dame, Ind., Nov. 15-17. The conference launched a new set of critical commentaries on select tractates of Philo of Alexandria, a Middle Platonic exegete of the Torah (20 B.C.E.-50 C.E.). He served as the chair of the Philo of Alexandria Seminar at the annual meeting of the Society of Biblical Literature in Chicago, Ill., Nov. 19-20. He presented "'Thus are Israel': Jewish Self-Definition in Alexandria" for the Hellenistic Judaism Section of the Society of Biblical Literature at the annual meeting in Chicago, Ill., Nov. 20. Sterling presented "'The Worship of Angels': Angelic Ascent in Colossian

Christianity and Alexandrian Judaism" at the Graduate Theological Union in Berkeley, Calif., Nov. 23. He presented the lecture "'Thus are Israel': Jewish Self-Definition in Alexandria" at the Jewish Studies Workshop of the Oriental Institute at the University of Chicago in Chicago, Ill., Jan. 24.

Rev. Patrick J. Sullivan, C.S.C., adjunct associate professor of sociology, gave the talk "Catholic Social Teaching on Equality of Treatment in the Work Place" at the conference of the National Religious Partnership for the Environment and Justice — representing the National Council of Churches, the U.S. Catholic Conferences, Coalition on the Environment and Jewish Life, and the Evangelical Environment Network — in Washington, D.C., Jan. 9.

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 Bettis Atomic Power Laboratory in West Mifflin, Pa., Jan. 12.

Kathleen Maas Weigert, faculty liaison/academic coordinator in the Center for Social Concerns, concurrent associate professor of American studies and faculty fellow in the Kroc Institute, presented a paper titled "Salience of Beliefs and Practices Among Catholics: A Generational Approach" at the annual meeting of the Society for the Scientific Study of Religion/Religious Research Association in Albuquerque, N.Mex., Nov. 4. She co-led a session on "Experiential Learning and Social Change for the 21st Century" at the International Experiential Learning Conference in Washington, D.C., Nov. 11.

James F. White, professor of theology, gave the lecture "Liturgy as Source of Justice" at the St. Paul School of Theology in Kansas City, Mo., Nov. 8. He gave the keynote address "From New Lebanon to Nashville" at the Summit on the Future of North American Worship in Nashville, Tenn., Dec. 9. He gave the response to a paper on Eighteenth Century Puritan Ordinations at the North American Academy of Liturgy in Boston, Mass., Jan. 6.

Charles K. Wilber, professor of economics, presented a paper titled "Economics, Ethics and Public Policy" at part of an Association for Evolutionary Economics panel at the ASSA Convention in Washington, D.C., Jan. 7.

Rev. Oliver F. Williams, C.S.C., associate professor of management, presented "The Religious Roots of Ethics in Business Today" to the Legatus Society, University Club, in Indianapolis, Ind., Jan. 19.

Martin H. Wolfson, assistant professor of economics, presented "A Post Keynesian Theory of Credit Rationing" at the annual meeting of the Allied Social Science Association in Washington, D.C., Jan. 8.

Graduate School Award

Nominations are requested for the Graduate School Award, given annually to a faculty member for distinction in graduate teaching or other exemplary contributions to graduate education. This honor will be presented at the President's Dinner for the faculty in May, and the recipient will receive a citation and cash prize.

Questions and letters of nomination should be addressed to Dr. Nathan O. Hatch, Vice President, Graduate School, 312 Main Building, Notre Dame, Indiana 46556, and must be received by March 10. Letters of nomination must be accompanied by a copy of the nominee's curriculum vitae.

Graduate School Award Winners Since 1990

1989-90	Rev. Ernan McMullin
1990-91	Lawrence Marsh
1991-92	Wilhelm Stoll
1992-93	Scott Maxwell
1993-94	Joan Aldous
	Francis J. Castellino

Special University Awards

Nominations are requested for the three special awards as well as sufficient background material and/or documentation to support the candidate's nomination. Selection is based on the letter and materials submitted by the nominator. Nominations should be sent to Isabel Charles, Associate Provost, 207 Main Building, by Friday, March 10, to be forwarded to the selection committees. Award winners will be honored at the President's Dinner in May.

Faculty Award

Established in the 1927-28 academic year by the Alumni Association, the Faculty Award singles out that faculty member who, in the opinion of his or her colleagues, has contributed outstanding service to the University of Notre Dame. Each year a selection committee, composed of prior winners and representing the colleges and the Law School, studies the recommendations submitted by former recipients of this award, by the deans, and by individual faculty members, and selects a winner.

Faculty Award Winners Since 1960

1959-60	Otto Bird
1960-61	John Frederick
1961-62	Milton Burton
1962-63	Stephen Kertesz
1963-64	Raymond Gutschick
1964-65	Matthew Fitzsimons
1965-66	Bernard D. Cullity
1966-67	John Magee
1967-68	Rev. Charles E. Sheedy, C.S.C.
1968-69	Bernard Waldman
1969-70	James Massey
1970-71	Thomas Stritch
1971-72	Ernest Sandeen
1972-73	Rev. Ernan McMullin
1973-74	Robert E. Rodes Jr.
1974-75	Herbert E. Sim
1975-76	Ronald Weber
1976-77	Walter Miller
1977-78	J. Philip Gleason
1978-79	K.T. Yang
1979-80	Frederick J. Crosson
1980-81	Jeremiah P. Freeman
1981-82	Morris Pollard
1982-83	James Kohn
1983-84	John Malone
1984-85	Rudy Bottei
1985-86	Rev. David Burrell, C.S.C.
1986-87	Paul Weinstein
1987-88	Ray Powell
1988-89	Robert A. Leader
1989-90	Edward J. Murphy
1990-91	Eugene Henry
1991-92	George B. Craig Jr.
1992-93	Lee Tavis
1993-94	Sonia Gernes

Reinhold Niebuhr Award

Rev. Theodore M. Hesburgh, C.S.C., and Chancellor Willy Brandt of West Germany were the first recipients of Reinhold Niebuhr awards sponsored by friends of the Protestant theologian and author. Receiving this award in September 1972, at ceremonies at Union Theological Seminary in New York City, Father Hesburgh announced the establishment of a Reinhold Niebuhr award at the University of Notre Dame. This award is made annually to a student, faculty member or administrator whose *life and writings* promote or exemplify the area of *social justice* in modern life. The initial award to Father Hesburgh was \$5,000. This he turned over to the Notre Dame endowment to underwrite an annual cash award of \$250 for the winner of this campus honor. The selection committee includes representatives from the colleges and Law School, Campus Ministry, Center for Social Concerns, rectors, Ladies of Notre Dame and the student body. All members of the Notre Dame community are invited to submit recommendations for this award.

Reinhold Niebuhr Award Winners Since 1973

1973	Msgr. John J. Egan
1974	CILA (Community for the International Lay Apostolate)
1975	George N. Shuster
1976	Rev. Louis Putz, C.S.C.
1977	Mr. and Mrs. Arthur Quigley
1978	Thomas P. Broden
1979	Rev. William Toohey, C.S.C.
1980	Rev. Don McNeill, C.S.C.
1981	Charles K. Wilber
1982	Kenneth and Penny Jameson
1983	Julian Pleasants
1984	John W. Houck and Oliver F. Williams, C.S.C.
1985	James Sterba
1986	John H. Yoder
1987	Stephen Worland
1988	Denis Goulet
1989	Sharon Lynn O'Brien
1990	John J. Gilligan
1991	Thomas and Nancy Shaffer
1992	Patrick E. Murphy
1993	John Borkowski
1994	Bernard Doering

Grenville Clark Award

On October 20, 1978, Father Hesburgh was one of three recipients of the Grenville Clark Prize, an award given every three years by the Grenville Clark Fund at Dartmouth College. Following the procedure established when he won the Reinhold Niebuhr award in 1972, Father Hesburgh donated the \$5,000 Clark stipend to the Notre Dame endowment to underwrite a cash prize of \$250 to be awarded each year. This award is made to a faculty member, administrator or student whose *voluntary activities* serve to advance the cause of peace and human rights to which Grenville Clark devoted his extraordinary life of *public service*. The selection committee includes representatives from the colleges and Law School, Campus Ministry, Center for Social Concerns, rectors, Ladies of Notre Dame and the student body. All members of the Notre Dame community are invited to submit recommendations for this award.

Grenville Clark Award Winners Since 1979

1979	Peter Walshe
1980	James and Mary Ann Roemer
1981	Sr. Judith Ann Beattie, C.S.C.
1982	Kenneth W. Milani
1983	Peggy Roach
1984	The Notre Dame Legal Aid and Defender Association
1985	Cecil and Mary Mast
1986	Rev. Robert F. Griffin, C.S.C.
1987	Conrad Kellenberg
1988	D'Arcy Chisholm and David Link
1989	Lloyd and Shelley Ketchum Kevin and Kathy Misiewicz
1990	Peter Morgan and Sr. Annette Giarrante, O.S.F.
1991	Kathleen Maas Weigert and Dolores Tantoco-Stauder
1992	Rev. H. Thomas McDermott, C.S.C.
1993	Michael and Christine Etzel
1994	Bro. Bonaventure Scully, C.F.X.

Faculty Senate Journal December 6, 1994

The chair, professor Richard McBrien, called the meeting to order at 7 p.m. in room 104 of the Center for Continuing Education. Professor Regina Coll offered the opening prayer. The November journal having been previously distributed, Professor Edward Vasta moved its approval and Professor Mario Borelli seconded; the senate agreed unanimously. The chair's report followed and it is printed as appendix A of this journal.

The executive committee presented the first of two resolutions on the search for a new provost. McBrien explained that in all likelihood both resolutions would not be favorably voted upon at this meeting, but both should at least be discussed to give the Academic Council a sense of faculty opinion on this matter. The senate would hope to be constructive in the search process not intrusive. The first resolution, if approved and accepted by the council, would obviate the need for the second. Professor Richard Sheehan formally moved the first resolution ("A") which recommended that the Academic Council appoint two additional faculty members to the mandated provost search committee, and that these additional members be elected by the senate from its membership. Professor Paul Conway asked if the chair of the senate would serve again on this search committee. The chair pointed out that the Academic Articles do not specify that the senate chair serve on this committee. Conway reminded the senate that in the search for the current provost he as senate chair had served on the search committee ex officio and wondered if anything had been said about using this same procedure again. McBrien responded that so far nothing had been communicated to him. M. Borelli brought up the question of confidentiality: Who would their two additional members report to and how would they perform as members of a search committee but also responsible to the senate? McBrien, not wanting to be involved as chair in this discussion, asked other executive committee members to respond; he felt, however, that their additional members would have to report back to the senate at some point. Professor Patrick Sullivan, C.S.C., believed they would have to abide by the rules laid down by the search committee, including any on confidentiality, and he believed other faculty members, including senators, would have to respect that.

Professor David Burrell, C.S.C., asked if the relevant portion of the Faculty Handbook could be read aloud as a point of information. McBrien did so (Article II, Section I). Having heard it, Burrell expressed the belief that the current set-up maximizes faculty participation; he saw no sufficient reason for extra faculty members from the senate to be on search committee, especially since the senate

is a separate body. Professor Jean Porter agreed that the senate was a separate body, but it is the only body composed entirely of elected faculty, existing for the purpose of expressing and formulating faculty opinion. This was the strongest reason for asking for two additional slots for elected faculty on the search committee. Further, the president and the recent North Central Association report have both called for greater faculty participation in governance. This was obviously an aim universally held, widely articulated and desired, and the resolution was a good way to achieve that aim.

Professor John Borkowski, a strong advocate of a greater faculty voice, nevertheless thought the resolution called for a needless activity. Why would seven be better than five? He saw no need for senate action especially since this would involve changing a process already under way. Professor William Eagan believed the senate should get as much visibility as possible as well as recognition for its efforts. The president has told the senate it doesn't do enough. Here was a chance to do more. He favored the resolution. Professor Stephen Batill asked if there were any justification why the committee should have seven members as opposed to five? For Professor Supriyo Bandyopadhyay the considerations for election to the senate and to the council were very different, so the two additional members elected from the senate would provide different perspectives. Batill countered, why two and not just one? M. Borelli thought the divergent points of view were beneficial to have represented. Sheehan said adding two was not unprecedented; the council's own executive committee gets its representation for balance in this way. Adding some number to a provost search committee was also not unprecedented, as we remember from the last one when the senate chair was added. He did not believe getting recognition for the senate was important. What was important would be: Are things done properly, and is the University getting the best decision?

Professor Michael Detlefsen spoke next. He thought two additional members were the least the committee could have to get some diverse evaluation; more than two would create too large a committee. He also commented on Borkowski's point about why the senate should be represented on the search committee. For him the nature of the two bodies, especially the presence of administrators on the council, made it important for the senate, with no administrators, to be represented. The direction the senate would give its representatives would be different, and that was good. Vasta wanted to consider an implication in the proposal: A spirit exists in the senate to shift authority from the administration to the faculty, but this resolution seemed to split the faculty, or the kind of faculty participation, saying the faculty on the council are not the same or perhaps not as good as the faculty on the senate. He was not sure this was such a well-advised

idea, and not even sure the senate was within its power to propose such an idea. Professor Neil Delaney basically agreed with Vasta: The search committee would be 100 percent elected faculty already, so how can this be improved? The proposal did seem to imply a division in the faculty. Professor Wilson Miscamble, C.S.C., disagreed with Detlefsen about the elected faculty on the Academic Council; such a resolution would be almost a vote of no confidence in them, who seem even more representative of faculty opinion than senators do. The proposal did not seem to be designed to get a good provost but simply to thrust the senate into the process and cause some hassle. It was against the spirit of the recent meeting with the officers. Professor Joan Brennecke thought that the simplest thing to do would be to ask the council to support the precedent of inviting the chair of the senate to sit on the search committee.

The senate at 7:40 recessed for one hour for committee meetings. When the meeting resumed, the chair listed the options on resolution "A": pass it, amend it, substitute something else for it, re-commit it, table it, defeat it. Professor Laura Bayard offered an amendment, which M. Borelli seconded. She moved to strike the words "two additional members . . . from among the membership of the Faculty Senate" and substitute "the chair of the Faculty Senate." Conway believed it was a good compromise which took account of the questions and objections raised in the discussion and took account also of precedent. Miscamble disagreed, saying the amended resolution did not meet the objections raised, interfered with an established procedure, was not an improvement, continued to interject the senate where it didn't belong and perhaps this was the object all along of the executive committee. Sullivan felt it was important for the senate to be seen playing a vital, constructive, positive role in the life of the University. The faculty should see that its senate chair has a role in the search for a new provost, and the chair would bring a different perspective to the discussion. Sullivan asked the chair if he would serve if asked. McBrien believed that was a moot point at this time and urged all senators to express themselves fully.

M. Borelli spoke in favor of the amendment and continued that without criticism the other members of the committee would be council members elected by the council, which includes administrators, with a different perspective from the senate chair. Porter preferred the original resolution but believed this was an adequate compromise and was not a challenge to the process, since precedent exists for the amended version. She could not see any member of the council being insulted because the council and senate were two different bodies (she was a member of both). The request, and it was a request, was reasonable. Vasta believed the amendment was good because it eliminated the faculty vs. faculty aura. Professor Kathleen Biddick too favored the amendment, and re-

called that President Malloy had talked to the senate about the faculty vs. faculty problem; this was a way around any faculty hierarchy that might exist. This was constructive.

Eagan moved the previous question on the amendment and Porter seconded. The senate agreed to vote on the amendment and it carried 36 in favor, one opposed, one abstention. Conway moved the question on the amended resolution and Porter seconded. The senate agreed to vote and approved the resolution 36 to two. The amended resolution is printed as appendix B of this journal.

The senate then turned to the resolution "B" of the executive committee. No member of the executive committee moved to introduce the resolution, and no other senator wished to do so. The resolution was not introduced.

COMMITTEE REPORTS

1. **Administration** — Porter reported that the committee has begun to seek ways to review the recent NCA report. The committee will present a resolution under new business.

2. **Academic Affairs** — Detlefsen reported agreement on two points in regard to its research into the grievance and appeals processes: It will seek to have someone other than the provost oversee such appeals and it will seek precise procedures and criteria, department by department, on grievances. Resolutions will be forthcoming.

3. **Benefits** — Bandyopadhyay reported that Director of Human Resources Roger Mullins had met with the committee who answered members' questions primarily in the areas of spousal and retiree benefits. The committee is framing two surveys, which will be presented to the senate prior to mailing out.

4. **Student Affairs** — Sullivan said the committee is concentrating on student financial aid. The committee has invited Director of Admissions Kevin Rooney and Director of Financial Aid Joseph Russo to hear their perspectives and needs in February. Student Body Vice President Matthew Orsagh reported that student government is preparing a major report for the Trustees in this area; the student goal is to have the University meet 100 percent of a student's needs. Sullivan further reported that the committee will review the NCA report over the coming months. Professor Regina Coll will propose a resolution for the committee on discriminatory sexual harassment under new business.

5. **Ad-hoc Committee on a response to the president** — Biddick had no report at this time.

6. **Senate self-study committee** — McBrien asked for volunteers to continue work on this vital project. Responses have been received from 10 institutions, 10 more are outstanding.

NEW BUSINESS

McBrien recognized Porter who yielded to Sheehan for the purpose of moving an Administration Committee resolution on the composition of the "official party" attending the football bowl game. The resolution asked for information on the membership of 1994 and 1995 official parties. The senate had previously recommended that members of the Faculty Board in Control of Athletics not attend such functions. The board itself has asked the senate to be more positive rather than negative, and provide guidance to the board for future action. This resolution would be a way to gather information so that the senate may consider what recommendation it might make in order to be helpful to the board. Conway pointed out that the so-called "official party" is relatively small (board members, deans, officers of the University), but a whole plane load of people from Notre Dame actually go to the bowl game. He wondered if the resolution's wording was precise enough. Sheehan said the wording was deliberately vague because the senate does not know who goes; perhaps it is overly vague, but administrators have asked some senators to open up both the questions of who goes and how are such trips funded. Batill asked if the committee had contacted the board prior to asking for such a motion. Sheehan said it had not. Batill thought that in the spirit of openness perhaps a simple request would get us the information; if not, then a formal motion could be resorted to. M. Borelli did not understand the intent of the motion and thought it might be demeaning of the faculty. Porter, responding to Batill, did not think it was within the parameters of a committee to seek such information without senate approval. If it was proper, she would gladly do so.

Professor Harvey Bender (seconded by Conway), moved to recommit the resolution to the Administration Committee with instructions to seek the information and report back to the senate. Vasta thought the motion was more than a request for information. The senate was concerned about the faculty on the board putting academic interests over athletic interests; AAUP principles see such trips as a conflict of interest. The senate should not recommit, but should pass the resolution tonight. Sheehan spoke in favor of recommitting; the more informal route was preferable, especially in light of the fact that this year's decision was already made.

Conway called the question on recommitment and Porter seconded. The senate agreed to vote to recommit the resolution with two opposing votes.

Next, the chair called on Coll for the purpose of moving a resolution from the Student Affairs Committee on discriminatory sexual harassment. The resolution called for a statement to be read by each professor to each class as a response to recent reports of campus events. This would be a timely response (more than has been forthcoming from the administration), it was not a new policy statement but simply an affirmation of current policy, and the action was seen as a one-time event for the spring semester only. She encouraged the student body to respond also, and Orsagh reported that the student senate has a committee looking into ways to respond.

Borkowski, in his role as University Ombudsman, pointed out that issues of sexual harassment should be reported to the Office of the Provost, and discriminatory sexual harassment to him. The distinction was explained in the Faculty Manual, and he offered a friendly amendment to account for this distinction. Biddick, in another friendly amendment, asked to include "students" in the statement, in addition to faculty and staff. Borkowski was asked to distinguish between sexual harassment and discriminatory sexual harassment; it was a matter of an individual being subject to undue pressure (sexual harassment) vs. a class of people being subjected to insulting or derogatory comments (discriminatory sexual harassment). Vasta offered a friendly amendment to assure that faculty would read the statement to their classes on the first day of the spring semester 1995.

Conway asked Coll who would receive such a resolution. She responded that the statement would go to each faculty member with a cover letter from the chair of the senate. Professor Gregory Hartland wondered if a similar statement rather than this particular one might be substituted. Coll said it was fairly short as it stood, was already policy, and she would like to see it read as is. Hartland offered his suggestion as a friendly amendment, but this was not accepted by Coll or by Professor Hilary Radner. Professor Sonia Jordan did not want to leave room for problems, so the statement should be read as written. M. Borelli, saying he would read the statement, thought it would be diluted for the students who would hear it four or five times. Coll said they would consider the statement successful if only half the faculty actually did read it to their classes. Biddick proposed as a friendly amendment to include the statement as an advertisement of the senate in *The Observer*. This was accepted. Professor Harold Esch asked if this could be distributed as a hand-out with the syllabus in the first class; he offered this as a friendly amendment, and this was accepted. Radner felt that repetition would not be harmful because this was a response to specific outrages that had been reported, and no other response to them had been forthcoming. Sullivan agreed saying that professors can give a positive view if there was repetition.

Vasta feared the effect of such propagation: Would it instigate hostility to the whole effect the senate was trying to achieve, especially the statement about inclusive language? He worried that behavior hostile to men may not be covered adequately. Coll responded that this was a response to current instances and attitudes; the statement was to be read only in the spring semester 1995, and on this campus the demeaning behavior had been shown to be directed toward women. The committee will continue to look at this subject, and if redress was to be needed in the future, this would be done. Porter saw the statement as a helpful step since the issue had not been addressed yet; she asked her class if there had been any discussion of sexual harassment, and the answer was no — the policy of the University seems never to have been explained.

The chair returned to the issue of printing the statement in *The Observer*. Although Coll was unsure, Radner believed the statement as well as the prefatory remarks should be printed. With the paper discontinuing publication soon, the senate decided the first issue of the spring semester would be appropriate.

Conway moved (seconded by Eagan) the question, and the senate agreed to vote. The resolution as amended in several friendly ways passed: 38 in favor, none opposed, one abstention. It is printed as appendix C of this journal.

Porter, seconded by Sullivan, moved to adjourn. The senate agreed to do so at 9:45 p.m.

Present: Bandyopadhyay, Batill, Bayard, Bender, Biddick, Borelli, A., Borelli, M., Borkowski, Bottei, Brennecke, Broderick, Burrell, Coll, Collins, A., Collins, J., Conway, Delaney, Detlefsen, Doordan, Eagan, Esch, Hartland, Huang, Jordan, Lombardo, Mason, McBrien, Miscamble, Munzel, Pickett, Porter, Radner, Rai, Sheehan, Sullivan, Vasta, Wei, Zachman, Orsagh, Stu. Gov. Rep.

Absent: Bradley, Brownstein, Callahan, Gundlach, Hamburg, Rathburn, Sommesse, Simon, Stevenson, Tomasch

Excused: Gaillard, Garg, Hyde, Ruccio, Sayers, Weinfield

Respectfully submitted,

Peter J. Lombardo Jr.
Secretary

Appendix A

Chair's Report

1. At the Faculty Senate meeting of November 9, a resolution was passed calling upon the Faculty Senate chair to appoint an Ad Hoc Committee to draft a response to the five-point agenda that the President proposed to the Senate on October 10. The Committee is composed of Kathleen Biddick (History), chair, Edward Vasta (English), Jerry Wei (Management), and David Ruccio (Economics). The Committee has essentially completed its work in the meantime. The Senate chair will circulate a copy of the Ad Hoc Committee's draft letter and invite comments from members of the Senate. If no substantive changes are recommended, the chair will present the draft to the full Senate at the January meeting for its approval. Otherwise the draft will be reevaluated by the Executive Committee in light of suggested changes and then presented to the full Senate at the February meeting.

2. Two Senate resolutions remain before the Executive Committee of the Academic Council. As already reported at the November meeting of the Senate, the resolution regarding intercollegiate athletics will be considered early in the spring semester, after the Faculty Board in Control of Athletics has issued its own report on the work of the Board. The resolution that recommends a change in the Academic Articles to provide for formal faculty input in the appointment and evaluation of the two vice presidents in the Provost's office, which was expected to be considered before the end of the current semester, will also be considered early in the spring semester. The Academic Council has one more post-Colloquy report to consider in the meantime; namely, the report on curriculum. Thereafter, the council should be able to address the issues contained in the Senate's two resolutions.

3. The Chair recently received from our former Senate colleague, Prof. George Lopez, materials relating to faculty senates in peer institutions, along with an informal report. Questionnaires were sent last year to twenty institutions. There were ten responses: eight completed the questionnaires and submitted documents (Tulane, Tufts, Vanderbilt, Duke, Michigan, Carnegie-Mellon, Penn, and North Carolina) and two sent letters informing us that no equivalent body exists in their institutions (MIT and Princeton). Among the institutions that did not respond were two Catholic universities: Georgetown and The Catholic University of America.

The Senate self-study is a matter of high priority. Indeed, the recently published Accreditation Report of the North Central Association suggests that "the University might explore ways in which faculty senates interact fruitfully with administrations in other universities" (*Notre Dame*

Report, November 18, 1994, p. 229). Since we have such an exploratory process already under way within the Senate, we must see to it that it is brought to a constructive and successful conclusion within a reasonable period of time. Since half of the members of the original Ad Hoc Committee on the Senate Self-Study are no longer in the Senate, the chair would like to reconstitute the committee and charge it with completing the work already begun last year. The chair would also like to appoint members to Ad Hoc Committee before the end of the current semester and would welcome in the meantime expressions of interest from any member of the senate who would wish to be considered for membership on the committee.

4. Last Friday, December 2, the Executive Committee of the Faculty Senate met with six academic officers of the University: the President, the Provost, the Executive Vice President, the Vice President for Graduate Studies and Research, and the two Vice Presidents in the Provost's office. The meeting began with lunch, followed by almost an hour and a half of informal discussion touching in a general way upon issues of faculty governance, Catholic character, and the like. Members of both the Administration and the Executive Committee have described the meeting as friendly and useful. Our expectation is that there will be a second meeting in the spring, at which attention would turn to particular issues and cases. The chair expressed the appreciation of the Senate for the President's invitation to resume a practice that had lapsed in recent years.

5. Stimulated by some of the President's remarks at the October 10th meeting of the senate, the chair is in process of preparing a report on the achievements of the Faculty Senate since its inception more than twenty-five years ago. The chair has been in contact with several past Senate chairs, and invites those not yet contacted and other past and present members of the senate to contribute to this inventory of accomplishment. When sufficient material has been collected and evaluated, the chair intends to submit a report to the entire faculty, perhaps early in the new calendar year.

6. The Accreditation Report of the North Central Association of Colleges and Schools was published in full in *Notre Dame Report* for November 18, 1994. The Chair would urge each member of the Senate to read the report and to reflect on its implications for the work of this body. More specifically, the Chair directs the Standing Committees of the Faculty Senate to begin immediately, or as soon as possible, a formal review of the Accreditation Report in light of their respective committee mandates and to make recommendations to the full Senate regarding follow-up action, no later than the end of the spring semester.

7. The chair reminds the Senate that next month's meeting, at which the Provost will be our guest, has been changed from Thursday, January 19, to Wednesday, January 18.

8. Finally, the chair urges as many senators and colleagues as possible to attend tomorrow evening's senate-sponsored Notre Dame Forum on Academic Life, at 7:30 in the CCE auditorium. The featured presenters are Prof. Jack Furdyna of the Department of Physics, and Prof. Maureen Hallinan of the Department of Sociology. The topic is: "The Role of Science in a Catholic University."

Appendix B

Faculty Senate Resolution

Whereas the Academic Articles (II.1) do not currently stipulate a specific role for the Faculty Senate in the search process for a new Provost; and

Whereas "the range of concern of the Faculty Senate extends to matters affecting the faculty as a whole" (Academic Articles IV.3.b); and

Whereas the Faculty Senate has as one of its stated purposes the formulation of faculty opinion (*idem*); and

Whereas the recent North Central Association Accreditation Report calls for greater faculty role in governance (*Notre Dame Report*, November 18, 1994, pp. 229, 237 #3), and specifically "in the search process for new deans or a new provost" (p. 238, #5); and

Whereas the Chair of the previous Provost Search Committee invited the Chair of the Faculty Senate to participate in the interviewing of all candidates; be it therefore

Resolved, that the Faculty Senate recommend to the Academic Council that the Chair of the Faculty Senate be appointed to the Provost Search Committee.

Appendix C

Whereas du Lac states: "The University of Notre Dame affirms its commitment to maintaining a learning and working environment which is fair, respectful and free from sexual harassment." (p. 78, I.); and

Whereas included in the description of sexual harassment is conduct that "has the purpose or effect of unreasonably interfering with an individual's performance or creating an intimidating, hostile, or offensive University environment" (p. 78, II); and

DOCUMENTATION

Whereas the Faculty Handbook states that harassment includes "any hostile, intentional, and persistent badgering, addressed directly at another, or small group of others, that is intended to intimidate its victim(s) from any University activity, or any verbal attack, intended to provoke the victim(s) to immediate physical retaliation." (p. 75, II); and

Whereas the recent revelations concerning highly charged anti-woman remarks (*The Observer*, October 13, 1994) have contributed to an environment that is hostile toward women; and

Whereas graffiti carved into the carrels in the Hesburgh Library also indicate the same hostile environment toward women; and

Whereas women students have judged a perceived lack of response as an indication that the issue is not taken seriously at the University; Be it therefore

Resolved, that the Faculty Senate publish the following statement and request every faculty member to read it to their classes on the first day of the spring semester 1995, or to distribute copies of it, or both. (This statement does not include the establishment of any new policy but is a reminder of already established University policy.)

Statement Regarding Discriminatory and Sexual Harassment

The Faculty Senate, desiring to create an atmosphere in which all students are able to learn and develop to the best of their ability, supports the following guidelines:

Inclusive language is the norm and is to be used in lectures, demonstrations and student assignments and papers.

The University of Notre Dame shall use respectful and gender-inclusive language in its official proclamations and documents and calls upon members of the University community to adopt such usage in the conduct of their work and their social life both within and outside the Notre Dame community. [Faculty Handbook, p. 72, Gender-Inclusive Language]

All forms of harassment, whether verbal or non-verbal, are forbidden by University policy and State law. It is the responsibility of faculty, staff, and students to assure that no such harassment is allowed.

Sexual harassment by any faculty, staff, or student is a barrier to the educational, scholarly, and research purposes of the University of Notre Dame and is a violation of law and University policy. The University of Notre

Dame affirms its commitment to maintaining a learning and working environment which is fair, respectful, and free from sexual harassment. [Faculty Handbook, p. 78, I.]

Pictures, illustrations and examples that demean women are prohibited in all public areas of the University. Professors will avoid such in their own lectures and demonstrations and demand the same of students.

Any behavior that contributes to the creation of an environment hostile to women will not be tolerated.

If, in spite of the University's policies against discriminatory sexual harassment, such behavior does occur, students are advised to contact the Office of the Ombudsperson, Professor John Borkowski.

The ombudsperson, after taking information on the incident, is to help the complainant handle the matter, either by informal conciliation, or by helping the complainant proceed with the reporting procedure described above. [Faculty Handbook, p. 76, Ombudsperson]

Be it further resolved that this statement be printed in *The Observer* as an advertisement of the Faculty Senate.

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

Anthropology

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

P. D. Gaffney, C.S.C. 1994. Rwanda: A crisis of humanitarian security. *Joan B. Kroc Institute for International Peace Studies Report* Fall (7): 1-4.

Economics

Kim, Kwan S.

R. Minami, K. S. Kim, F. Makino and J-H. Seo, eds. 1994. *Acquiring, adapting and developing technologies – Lessons from the Japanese experience*. New York: St. Martin's Press. 346 pp.

R. Minami, K. S. Kim, F. Makino and J-H. Seo. 1994. Japan's experience in technology: A survey. In *Acquiring, adapting and developing technologies – Lessons from the Japanese experience*, ed. R. Minami, K. S. Kim, F. Makino and J-H. Seo, 1-28. New York: St. Martin's Press.

R. Minami, K. S. Kim, F. Makino and J-H. Seo. 1994. Lessons from the Japanese experience. In *Acquiring, adapting and developing technologies – Lessons from the Japanese experience*, ed. R. Minami, K. S. Kim, F. Makino and J-H. Seo, 331-338. New York: St. Martin's Press.

Wolfson, Martin H.

M. H. Wolfson. 1994. *Financial crises: Understanding the postwar U.S. experience*. 2d ed. Armonk, N.Y.: M. E. Sharpe. 269 pp.

M. H. Wolfson. 1994. The financial system and the social structure of accumulation. In *Social structures of accumulation: The political economy of growth and crisis*, ed. D. Kotz, T. McDonough and M. Reich, 133-145. Cambridge, England: Cambridge University Press.

English

Brogan, Jacqueline Vaught

J. Vaught Brogan. 1995. June Jordan. In *The Oxford companion to women's writing in the United States*, ed. C. Davidson and L. Wagner-Martin, 450-451. New York: Oxford.

J. Vaught Brogan. 1994. Notes from the Body-iv, accompanied by critical interpretations, by A. Ostriker and M. Brownley. *Connotations* 3 (2): 202-219.

J. Vaught Brogan. 1994. Review of *Feminist revision and the Bible*, by A. Ostriker. *Women's Studies* 23:385-387.

Government and International Studies

Mainwaring, Scott P.

S. P. Mainwaring and M. S. Shugart. 1994. Juan J. Linz: presidencialismo y democracia. Una revision critica. *Desarrollo Economico* 34 (135): 397-418.

History

Kselman, Thomas A.

T. A. Kselman. 1995. The varieties of religious experience in modern France. In *European religion in the age of great cities*, ed. H. McLeod, 165-190. London: Routledge.

Sociology

Weigert, Andrew J.

A. J. Weigert. 1994. Lawns of weeds: Status in opposition to life. *American Sociologist* 25 (1): 80-96.

Theology

Bradshaw, Paul F.

P. F. Bradshaw. 1995. *Two ways of praying*. Nashville, Tenn.: Abingdon. 140 pp.

Sterling, Gregory E.

G. E. Sterling. 1994. Review of *Allegorical readers and cultural revision in ancient Alexandria*, by D. Dawson. In *Critical Review of Books in Religion 1993*, ed. E. J. Epp, 332-334. Atlanta: Scholars Press.

G. E. Sterling. 1994. Review of *A tale of two cities: Sodom and Gomorrah in the Old Testament, early Jewish and early Christian traditions*, by J. A. Loader. In *Critical Review of Books in Religion 1993*, ed. E. J. Epp, 166-168. Atlanta: Scholars Press.

COLLEGE OF SCIENCE

Biological Sciences

Adams, John H.

T. Tsuboi, S. H. I. Kappe, F. Al-Yaman, M. D. Prickett, M. Alpers and J. H. Adams. 1994. Natural variation within the principal adhesion domain of the *Plasmodium vivax* Duffy binding protein. *Infection and Immunity* 62 (12): 5581-5586.

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Hyde, David R.

Y.-J. Lee, S. Shah, E. Suzuki, T. Zars, P. M. O'Day and D. R. Hyde. 1994. The *Drosophila* *dgg* encodes a G_q protein that mediates phototransduction. *Neuron* 13:1143-1157.

Chemistry and Biochemistry

Castellino, Francis J.

S. G. McCance, N. Menhart and F. J. Castellino. 1994. Amino acid residues of the kringle-4 and kringle-5 domains of human plasminogen that stabilize their interactions with ω -amino acid ligands. *Journal of Biological Chemistry* 269:32405-32410.

W. T. Christiansen, A. Tulinsky and F. J. Castellino. 1994. Functions of individual γ -carboxyglutamic acid (Gla) residues of human protein C. Determination of functionally nonessential Gla residues and correlations with their mode of binding to calcium. *Biochemistry* 33:14993-15000.

Freeman, Jeremiah P.

J. P. Freeman, ed. 1995. *Organic syntheses: Cumulative indices to collective volumes 1-8*. New York: John Wiley & Sons. 620 pp.

S. Zhao, A. Ghosh, S. V. D'Andrea, J. P. Freeman, P. F. VonVoightlander, D. B. Carter, M. W. Smith, J. R. Blinn and J. Szmuszkowicz. 1994. Synthetic studies towards a *trans*-3, 4-diamine derivative of piperidine mimicking spiroketal. *Heterocycles* 39 (1): 163-170.

Miller, Marvin J.

A. R. Ritter and M. J. Miller. 1994. Asymmetric synthesis of novel amino acids and peptides from acylnitroso-derived cycloadducts. *Tetrahedron Letters* 35 (50): 9379-9382.

Szmuszkowicz, Jacob

See under Freeman, Jeremiah P. 1994. *Heterocycles* 39 (1): 163-170.

Thomas, J. Kerry

R. Krasnansky and J. K. Thomas. 1994. Aminopyrene as a monitor of vicinal and geminal OH groups on silica. *Langmuir* 10:4551-4553.

X. Liu, K.-K. Iu and J. K. Thomas. 1994. Electron trapping by sodium cation clusters in zeolites: Effects of Si/Al ratio and foreign species. *Journal of Physical Chemistry* 98:13720-13728.

X. Liu and J. K. Thomas. 1994. Photophysical properties of pyrene in zeolites: Adsorption and distribution of pyrene molecules on surfaces of zeolite L and mordenite. *Chemistry of Materials* 6:2303-2308.

X. Liu, K.-K. Iu, J. K. Thomas, H. He and J. Klinowski. 1994. Spectroscopic studies of protonated aromatic species and radical cations in H^+ -zeolites. *Journal of the American Chemical Society* 116:11811-11818.

Mathematics

Cholak, Peter

P. Cholak and H. A. Blair. 1994. The complexity of local stratification. *Fundamenta Informaticae* 21 (4): 333-344.

Hu, Bei

B. Hu and H.-M. Yin. 1994. The profile near blow up time for solutions of the heat equation with a nonlinear boundary condition. *Transactions of the American Mathematical Society* 346 (1): 117-135.

Migliore, Juan C.

J. Migliore, A. Bigatti and A. V. Geramita. 1994. Geometric consequences of extremal behavior in a theorem of Macaulay. *Transactions of the American Mathematical Society* 346:203-235.

Yin, Hong-Ming

See under Hu, Bei. 1994. *Transactions of the American Mathematical Society* 346 (1): 117-135.

Physics

LoSecco, John M.

R. S. Miller et al., Notre Dame (J. M. LoSecco). 1994. A search for astrophysical sources of low-energy neutrinos using the IMB detector. *Astrophysical Journal* 428: 629-632.

COLLEGE OF ENGINEERING

Chemical Engineering

Chang, Hsueh-Chia

M. Cheng and H.-C. Chang. 1995. Competition between subharmonic and sideband secondary instabilities on falling film. *Physics of Fluids* (7): 34-54.

Computer Science and Engineering

Chen, Danny Z.

D. Z. Chen. 1995. Efficient geometric algorithms on the EREW PRAM. *IEEE Transactions on Parallel and Distributed Systems* 6 (1): 41-47.

Electrical Engineering

Sain, Michael K.

C. B. Schrader and M. K. Sain. 1994. On the relationship between extended zeros and Wedderburn-Forney spaces. In *Systems and networks: Mathematical theory and application*. Vol. 2., ed. U. Helmke, R. Mennicken and J. Saurer, 471-476. Berlin, Germany: Akademie Verlag.

THE GRADUATE SCHOOL OFFICE OF RESEARCH

COLLEGE OF BUSINESS ADMINISTRATION

Finance and Business Economics

Cosimano, Thomas F.

T. F. Cosimano and R. G. Sheehan. 1994. Is the conventional view of discount window borrowing consistent with the behavior of weekly reporting banks. *Review of Economics and Statistics* 77 (4): 761-770.

Sheehan, Richard G.

See under Cosimano, Thomas F. 1994. *Review of Economics and Statistics* 77 (4): 761-770.

Marketing Management

Etzel, Michael J.

M. J. Etzel and J. F. Gaski. 1994. The public's view of the practice of marketing. In *Southern marketing theory and applications: Proceedings of the refereed section of the 1994 Australian Marketing Conference*, ed. B. Sharp, 327-349. Adelaide, Australia: Marketing Science Centre, University of South Australia.

Gaski, John F.

See under Etzel, Michael J. 1994. *Proceedings of the refereed section of the 1994 Australian Marketing Conference*, 327-349.

LAW SCHOOL

Bauer, Joseph P.

E. W. Kintner and J. P. Bauer. 1994. *1995 cumulative supplement to Federal antitrust law*, Vol. 1. Cincinnati: Anderson Publishing. 49 pp.

E. W. Kintner and J. P. Bauer. 1994. *1995 cumulative supplement to Federal antitrust law*, Vol. 2. Cincinnati: Anderson Publishing. 328 pp.

E. W. Kintner and J. P. Bauer. 1994. *1995 cumulative supplement to Federal antitrust law*, Vol. 3. Cincinnati: Anderson Publishing. 70 pp.

E. W. Kintner and J. P. Bauer. 1994. *1995 cumulative supplement to Federal antitrust law*, Vol. 4. Cincinnati: Anderson Publishing. 67 pp.

E. W. Kintner and J. P. Bauer. 1994. *1995 cumulative supplement to Federal antitrust law*, Vol. 5. Cincinnati: Anderson Publishing. 34 pp.

E. W. Kintner and J. P. Bauer. 1994. *1995 cumulative supplement to Federal antitrust law*, Vol. 6. Cincinnati: Anderson Publishing. 38 pp.

E. W. Kintner and J. P. Bauer. 1994. *1995 cumulative supplement to Federal antitrust law*, Vol. 7. Cincinnati: Anderson Publishing. 29 pp.

E. W. Kintner and J. P. Bauer. 1994. *1995 cumulative supplement to Federal antitrust law*, Vol. 8. Cincinnati: Anderson Publishing. 92 pp.

E. W. Kintner and J. P. Bauer. 1994. *1995 cumulative supplement to Federal antitrust law*, Vol. 9. Cincinnati: Anderson Publishing. 37 pp.

E. W. Kintner and J. P. Bauer. 1994. *1995 cumulative supplement to Federal antitrust law*, Vol. 10. Cincinnati: Anderson Publishing. 12 pp.

RADIATION LABORATORY

Wang, Yicheng

Y. Wang. 1995. On O⁻ emission from cesium-coated surfaces. *Journal of Chemical Physics* 102:525-528.

UNIVERSITY LIBRARIES

Tarragó, Rafael E.

R. E. Tarragó. 1994. *Early U.S.-Hispanic relations, 1776-1860: An annotated bibliography*. Metuchen, N.J.: Scarecrow Press. viii + 171 pp.

UNIVERSITY PRESS

Langford, James R.

J. R. Langford. 1994. Copernicus. In *The modern Catholic encyclopedia*, ed. M. Glazier and M. K. Hellwig, 205. Collegeville, Minn.: Liturgical Press.

J. R. Langford. 1994. Galileo Galilei. In *The modern Catholic encyclopedia*, ed. M. Glazier and M. K. Hellwig, 339-340. Collegeville, Minn.: Liturgical Press.

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Awards Received and Proposals Submitted

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

AWARDS RECEIVED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	5	558,941	6	252,137	11	811,078
Facilities and Equipment	0	0	1	43,000	1	43,000
Instructional Programs	0	0	0	0	0	0
Service Programs	0	0	5	18,613	5	18,613
Other Programs	0	0	1	66,465	1	66,465
Total	5	558,941	13	380,215	18	939,156

PROPOSALS SUBMITTED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	5	287,540	21	4,384,023	26	4,671,563
Facilities and Equipment	0	0	0	0	0	0
Instructional Programs	0	0	4	601,132	4	601,132
Service Programs	0	0	0	0	0	0
Other Programs	0	0	1	112,500	1	112,500
Total	5	287,540	26	5,097,655	31	5,385,195

Awards Received

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

AWARDS FOR RESEARCH

Civil Engineering and Geological Sciences

Silliman, S.
Particle Transport through Heterogeneous Porous Media
Department of Energy
\$69,340 17 months

Chemical Engineering

McCready, M., Chang, H., et al.
Study of Disturbances in Fluid-Fluid Flows
National Aeronautics and Space Administration
\$130,172 12 months

Varma, A.
Inorganic Membrane Reactors
National Science Foundation
\$74,935 42 months

Chemistry and Biochemistry

Jacobs, D.
Dynamics of Molecular Ion Scattering on Surfaces
National Science Foundation
\$85,000 35 months

Smith, B.

Dopamine Transport through Supported Liquid Membranes
North Atlantic Treaty Organization
\$6,844 24 months

Fehlner, T.

Main Group Transition Element Clusters
National Science Foundation
\$115,000 30 months

Basu, S., Basu, M.

Glycolipid Metabolism in Normal and Pathological Tissues
National Institutes of Health
\$159,429 12 months

Electrical Engineering

Herro, M.

Modulation and Coding Theory
Magnavox Electric Systems Co.
\$10,000 12 months

Antsaklis, P., Lemmon, M.

Intelligent Control and DES Identification
National Science Foundation
\$61,358 42 months

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Graduate School

Diffley, P.

Graduate Research Fellowship Program
National Science Foundation
\$69,000 60 months

Romance Languages and Literatures

Welle, J.

Italian Poetry in the Cinematic Mode
National Endowment for the Humanities
\$30,000 12 months

AWARDS FOR FACILITIES AND EQUIPMENT

Electrical Engineering

Bandyopadhyay, S., Miller, A., et al.

AC Susceptometry and DC Magnetometry of
Superconductors
Purdue University
\$43,000 24 months

AWARDS FOR SERVICE PROGRAMS

Center for Continuing Formation in Ministry

Lauer, E.

Center for Continuing Formation in Ministry
Various Others
\$11,262 1 month

Notre Dame Center for Pastoral Liturgy

Bernstein, E.

Notre Dame Center for Pastoral Liturgy
Various Others
\$6,152 1 month

Notre Dame Center for Pastoral Liturgy
Various Others
\$1,075 1 month

Notre Dame Center for Pastoral Liturgy
Various Others
\$50 1 month

Institute for Church Life

Cannon, K.

Institute for Church Life
Various Others
\$74 1 month

AWARDS FOR OTHER PROGRAMS

Cushwa Center for the Study of American Catholicism

Appleby, R.

Women and the Writing of American Catholic History
Lilly Endowment, Inc.
\$66,465 11 months

Proposals Submitted

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

PROPOSALS FOR RESEARCH

College of Arts and Letters

Neiman, A.

Monastic Contemplation and Higher Education
Bradley Family Foundation Inc.
\$33,212 9 months

Aerospace and Mechanical Engineering

Atassi, H.

Aerodynamics and Noise Radiation
National Aeronautics and Space Administration
\$72,178 12 months

Biological Sciences

Grimstad, P.

Arbovirus Surveillance Laboratory Service
Indiana State Department of Health
\$27,573 12 months

Duman, J.

Plant Thermal Hysteresis Proteins
National Science Foundation
\$368,573 36 months

Feder, J.

Tradeoffs and Race Formation in the Apple Maggot Fly
National Science Foundation
\$178,992 36 months

Lamberti, G., Lodge, D.

Limiting Factors and Ecological Effects of Zebra Mussels
Purdue University
\$205,011 24 months

Boyd, S., Houtsmuller, E.

Development of Neuropeptide Systems
National Institutes of Health
0* 12 months

Lamberti, G., Lodge, D.

Potential Effects of Invading Ruffe
University of Minnesota
\$366,513 36 months

Eldon, E.

18-Wheeler Signaling in Early *Drosophila* Development
National Science Foundation
\$717,066 60 months

Bridgham, S., Kulpa, C.

Microbial Controls Over CO₂ and CH₄ Partitioning
Department of Agriculture
\$343,456 36 months

Carlton, R.

Control of Biogeochemical Processes in Lake Sediments
National Science Foundation
\$241,340 36 months

THE GRADUATE SCHOOL OFFICE OF RESEARCH

Fraser, M.

Molecular Genetics of HZSNPV
Department of Agriculture
\$433,805 36 months

Chemical Engineering

Strieder, W.

Reduced Pressure Cryogenic Insulation
National Science Foundation
\$209,389 36 months

Chemistry and Biochemistry

Lappin, A.

Studies in Recognition and Reactivity
ACS Petroleum Research Foundation
\$50,000 24 months

Thomas, J.

Radiation Induced Reactions in Solids
National Science Foundation
\$721,187 36 months

Computer Science and Engineering

Cohn, D.

Protected Shared Libraries
International Business Machines
\$100,000 12 months

Electrical Engineering

Costello, D., Liu, R., et al.

Robust Transmission of Multimedia Data
National Institute for Studies and Technology
\$101,868 12 months

Bernstein, G., Huang, X.

Fabrication of Tunnel Devices
Los Alamos National Laboratory
\$20,000 6 months

Fabrication of Tunnel Devices
Los Alamos National Laboratory
\$40,000 12 months

Costello, D.

Error Control Coding Techniques
National Aeronautics and Space Administration
\$126,006 24 months

Snider, G., Bernstein, G.

Electron Beam Induced Damage in Pseudomorphic
Devices
Raytheon Co.
\$39,933 12 months

Costello, D., Huang, R., et al.

Image Transmission Over Low Bit Rate Noisy Channels
National Aeronautics and Space Administration
\$52,783 12 months

Mathematics

Alber, M.

Quantum Nonlinear Schrodinger Equation
National Science Foundation
\$74,736 24 months

Physics

Glazier, J.

Neural Network Compensation in Polyploid
Amphibians
McKnight Foundation
\$120,000 36 months
NYI Supplement for R.E.U.
National Science Foundation
\$9,000 10 months

Psychology

Marsh, K.

Gaining Control Through Belief-Guided Action
National Science Foundation
\$18,942 18 months

PROPOSALS FOR INSTRUCTIONAL PROGRAMS

Aerospace and Mechanical Engineering

Sen, M., Skaar, S., et al.

Manufacturing Technology in Mechanical Engineering
Department of Education
\$567,432 36 months

Civil Engineering and Geological Sciences

Makris, N., Hill, D.

REU Supplement for NSF Grant #BCS9300827
National Science Foundation
\$11,600 12 months

Spencer, B., Sain, M.

REU Supplement for NSF #CMS-93-01584
National Science Foundation
\$11,600 12 months

Gaillard, J.

REU Supplement for NSF Grant #BES 93-09349-001
National Science Foundation
\$10,500 4 months

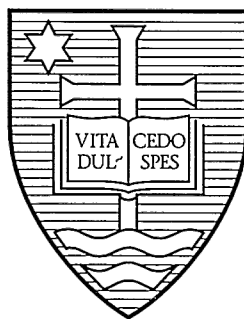
PROPOSALS FOR OTHER PROGRAMS

The Snite Museum of Art

Loving, C.

Institute of Museum Services GOS
Institute of Museum Services
\$112,500 24 months

* Fellowship to be determined by sponsor



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