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# Notre Dame

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# R E P O R T

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1992-93

# The University

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## Cash Contributions Exceed \$47 Million

Cash contributions to the University exceeded \$47 million in fiscal year 1992, an increase of almost \$1 million from the previous year. The total, which does not take into account pledges of future gifts, included record levels in foundation and corporate support, the Annual Fund and the Sorin Society.

Foundation and corporate support totaled \$22 million, a 15 percent increase over 1991 and \$1.2 million more than the previous year of 1988. Among U.S. colleges and universities, Notre Dame continues to rank behind only Harvard and Yale Universities in matching gifts, generating \$2.4 million in 1992.

In its 49th year, the Annual Fund raised \$11.8 million, an increase of 6 percent over 1991 and the ninth consecutive record-breaking year. The fund received 52,127 gifts, an 8.5 percent increase over the previous year and also a record.

The Sorin Society, flagship of the Annual Fund, raised a record \$5.4 million, some \$600,000 more than last year. The Sorin Society includes contributors of a minimum of \$1,000 annually in unrestricted gifts as well as members of the new Founders Circle who donate \$3,000 or more annually.

Planned giving commitments — including bequests, trusts, insurance and other estate gifts — totaled \$16.5 million, an increase of \$1.2 million from a year ago. The Badin Guild, established for benefactors who include Notre Dame in their estates, now includes 425 members with planned gift expectancies of more than \$104 million.

## Multimedia-Entertainment Establishes Donahue Scholarship

Notre Dame will receive a gift from Multimedia-Entertainment, Inc., to establish a scholarship in honor of television talk show host Phil Donahue, a 1957 alumnus. The gift was announced by Walter Bartlett, chairman of the board and chief executive officer of Multimedia-Entertainment, at a dinner given last month in New York by the National Academy of Television Arts and Sciences to mark the 25th anniversary of the Donahue television program.

The Donahue Scholarship will be awarded annually to a senior at the University. Preference will be given to students aspiring to careers in communications, including journalism and broadcasting.

Multimedia-Entertainment is a division of Multimedia, Inc., a diversified communications company which owns 12 daily and 49 non-daily newspapers, owns and operates five network-affiliated television stations, eight radio stations, a video and telefilm production company, and a cable company serving more than 100 franchises in the United States.

Multimedia Entertainment produces programming for network, independent and cable television and distributes programs for domestic and international broadcast including Emmy Award-winning talk shows "Donahue" and "Sally Jessy Raphael," and the Jerry Springer and Rush Limbaugh programs.

# Faculty Notes

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## Honors

Rev. Nicholas R. Ayo, C.S.C., associate professor in the Program of Liberal Studies, has received an extended membership in Phi Beta Kappa, Nov. 16. His book *The Lord's Prayer: A Survey Theological and Literary* was chosen as the monthly selection by the Religious Book Club.

Steven C. Bass, Schubmehl-Prein chairman and professor of computer science and engineering, was re-elected to a third one-year term as vice president for publications of the Circuits and Systems Society of the Institute of Electrical and Electronics Engineers in 1993.

Michael J. Crowe, professor in the Program of Liberal Studies, has been recognized by the Jean Scott Foundation of France with a \$4000 international award for excellence for his 1967 book *A History of Vector Analysis: The Evolution of the Idea of a Vectorial System*, considered the definitive book on the history of vector calculus, in Paris, France, Nov. 25. Crowe is one of several scholars honored by the Jean Scott Foundation and La Maison des Sciences de l'Homme for research on the comparative history of imaginary, complex and hypercomplex numbers as well as the origins of vectorial calculus.

Teresa Ghilarducci, associate professor of economics, has been appointed by the president of Indiana University to the statewide advisory committee for the Division of Labor Studies.

Carla Johnson, adjunct assistant professor in the Freshman Writing Program, has been elected to the board of directors of Indiana Teachers of Writing and has been named area chair for Jewish Studies for the Popular Culture Association's annual conference in New Orleans, La., April 7-10.

Jeffrey C. Kantor, professor of chemical engineering, has been named an associate editor of *Automatica*, the journal of the International Federation of Automatic Control.

Anthony N. Michel, McCloskey dean and Freimann professor of electrical engineering, has been appointed an associate editor-at-large of the IEEE Control System Society for a one-year term beginning Jan. 1, 1993.

John Roos, associate professor of government and international studies, was initiated into the Notre Dame Chapter of the Phi Beta Kappa, Nov. 19. He was chosen in recognition of distinguished liberal scholarship since graduation.

Michael K. Sain, Freimann professor of electrical engineering, was elected vice president of administration of the Board of Governors, IEEE Circuits and Systems Society, Jan. 1 - Dec. 31, 1993. He served as guest co-editor with John J.

Uhran Jr., professor of computer science and engineering, of IEEE Communications Magazine Special Issue on "International Engineering Education," November 1992.

Eugene Ulrich, professor of theology, was elected vice chair of the Dead Sea Scrolls Foundation for 1992-95 at the inaugural meeting of the board of directors of the foundation in San Francisco, Calif., Nov. 23.

## Activities

Gary H. Bernstein, assistant professor of electrical engineering, presented a paper titled "Failure Mechanisms of Very Narrow PMMA Walls" with Davide A. Hill, assistant professor of chemical engineering, Xiaokang Huang and Greg Bazán at the 39th national symposium of the American Vacuum Society in Chicago, Ill., Nov. 9-13. Bernstein was co-author of a paper titled "Electron Beam Lithography Over Large Scan Fields" with Greg Bazán and was the presenter of a poster titled "Observation of Current-Induced Failures of Ultra-Narrow Metal Interconnects" with Richard Frankovic at that symposium.

Ikaros Bigi, professor of physics, acted as convenor and gave the talk "A QCD Manifesto on Inclusive Decays of Beauty and Charm" at the APS-DPF '92 meeting held at Fermilab, Ill., Nov. 10-14.

Howard A. Blackstead, associate professor of physics, gave the talk "Field and Temperature Dependent Resistivity in High Temperature Superconductors: The Role of Defects and Anisotropy" at New Jersey Institute of Technology in Newark, N.J., and at AT&T Bell Labs in Murray Hill, N.J., Nov. 9 and 10.

Veronica C. Blasquez, Galla assistant professor of biochemistry, gave the talk "Developmentally Changing Pattern of DNase I Hypersensitivity at the Mouse Kappa Immunoglobulin 3' Enhancer" at the 32nd annual meeting of the American Society for Cell Biology in Denver, Colo., Nov. 15-19.

Joseph Blenkinsopp, O'Brien professor of theology, read a paper titled "P and J in Genesis 1:1-11:26: An Alternative Hypothesis" at the annual meeting of the Society of Biblical Literature in San Francisco, Calif., Nov. 24.

Linda S. Buyer, assistant professor of psychology, presented the poster titled "Problem, Process, and Self-Oriented Verbalizations and Their Relation to Problem Solving Performance" at the Psychonomic Society annual conference in St. Louis, Mo., Nov. 13.

# Faculty Notes

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**Theodore J. Cachey Jr.**, assistant professor of romance languages and literatures, gave an invited lecture "Between Humanism and New Historicism: Rewriting New World Encounter" sponsored by the Department of French and Italian at Miami University in Oxford, Ohio, Nov. 17. He presented the paper "Purgatorio XV: *che sempre a guisa di fanciullo scherza*" at the annual meeting of the American Association of Teachers of Italian in Chicago, Ill., Nov. 20-22.

**Hsueh-Chia Chang**, chairman and professor of chemical engineering, presented a seminar titled "Surface-Tension Driven Flow" at the West Virginia University in Morgantown, W.Va., Nov. 17. He delivered the talks "Subharmonic Instability of Finite-Amplitude Travelling Waves in Stratified Gas-Liquid Flow," "Nonlinear Evolution of Waves on a Falling Film," "Drop Formation During Coating of Vertical Fibers" and "Defect Formation and Instability on Sheared Films" at the annual meeting of the Division of Fluid Dynamics of APS in Tallahassee, Fla., Nov. 20-22.

**James T. Cushing**, professor of physics, gave a series of invited lectures "Bell's Theorem, Quantum Mechanics and the Nature of Physical Reality," "The Measurement Problem and Schrodinger's Cat Paradox" and "The Fall From the Bacon-Descartes Ideal" under the auspices of the American Institute of Physics Visiting Scientists Program at Butler University in Indianapolis, Ind., Nov. 17-18.

**Rev. Regis A. Duffy, O.F.M.**, associate professor of theology, served as an outside consultant to the Theology Department at the Catholic University of America and at Boston College. He presented a lecture on "Current Theological Perspectives on Liturgical Praxis" to the Church Leaders' Group in Notre Dame, Ind., Nov. 20.

**Leonid Faybusovich**, assistant professor of mathematics, gave an invited talk titled "Decoding Goppa Codes via H. Rutishauser's Quotient-difference Algorithm" at the Applied Analysis Seminar at Ohio State in Columbus, Ohio, Nov. 19.

**Elizabeth Forbis**, assistant professor of classical and oriental languages and literatures, gave the invited paper "Sappho and Beyond: Women Writers in the Classics Curriculum" at the 42nd annual Mountain Interstate Foreign Language Conference at Virginia Tech in Blacksburg, Va., Oct. 10.

**Teresa Ghilarducci**, associate professor of economics, presented an invited lecture on "Men and Women at Work: The Economics of Sexism" to the Blackhills Notre Dame Alumni Club in Rapid City, S.D., Oct. 19. She gave invited testimony before the Infrastructure Commission to the U.S. Senate Committee on Public Works, Nov. 19.

**William J. Goralski**, visiting assistant professor of art, art history and design, presented "LODEX" at the Universal Design Conference in New York, N.Y., May 14-15. LODEX is a

fire alarm that meets ADA standards for wheelchair users. It requires less than five pounds of pressure to activate and has large visible lettering. It allows for variable height adjustment up to 48 inches from floor level, the legal wheelchair reach requirement. LODEX is Patent Pending. Production is anticipated in the near future.

**Catherine Mowry LaCugna**, associate professor of theology, served as guest panelist for "Talk of the Nation," a National Public Radio one-hour listener call-in program, Nov. 16.

**Rev. Eugene F. Lauer**, director of the Center for Continuing Formation in Ministry, gave a research paper "New Models of Leadership in the Church" in the academic section of the Future of the American Church Conference in Washington, D.C., Sept. 26. He gave the keynote address "Consumerism and the Education of Youth" at the 150th Anniversary Religious Education Convention of the Diocese of Pittsburgh, Pa., Oct. 2. He participated in a tribute to Rev. Thomas Harvey, the outgoing Executive Director of the Catholic Charities, USA, at their national convention in Philadelphia, Pa., Oct. 12. He gave the paper "Unions and the Helping Professions: How Do They Fit?" to the national conference of Health Care Leaders in Phoenix, Ariz., Oct. 27.

**Ruey-wen Liu**, Freimann professor of electrical engineering, presented a plenary speech on "Blind Signal Processing: Theory, Algorithms and Applications" at the international conference on Intelligent Information Processing and Systems in Beijing, China, Oct. 30-Nov. 1. He delivered a seminar on "A Theorem of Blind Signal Processing" at Stanford University in Stanford, Calif., Nov. 9.

**Gilbert Loescher**, professor of government and international studies, presented the paper "European Security and Refugees" at the conference on European Security and Regional Stability, U.S. Army Europe, in Heidelberg, Germany, Nov. 10-12. He presented the paper "East-West Migration: Toward a Framework of Action" at the conference on Migration into Western Europe: Which Way Forward? at the Royal Institute of International Affairs and Wyndham Place Trust in London, England, Nov. 26.

**Andrew Lumsdaine**, assistant professor of computer science and engineering, gave the invited presentation "Waveform Methods for Simulating Vehicles on Parallel Computers" at the Army Research Office workshop on modeling and Analysis for Mechanical Systems and Algorithms for Real-Time Simulation in Raleigh, N.C., Nov. 6.

**Rev. Richard P. McBrien**, Crowley-O'Brien-Walter professor of theology, presented "Renewing the Church for Today and Tomorrow" at the Renew Program at St. Peter Church in West Worthington, Ohio, Nov. 15.

# Faculty Notes

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**Jerome H. Neyrey**, professor of theology, delivered the paper "Honor and Shame in Matthew's Sermon on the Mount: Discipleship and Renunciation of Honor" at the convention of the Society of Biblical Literature in San Francisco, Calif., Nov. 21. He presented "Crossan's Jesus and Social Science Models — A Review" at that convention, Nov. 22.

**Simon M. Pimblott**, associate professional specialist in the Radiation Laboratory, gave the invited seminar "Short-Time Kinetics in Radiation Chemistry" at Indiana University-Purdue University in Fort Wayne, Ind., Nov. 25.

**Dean A. Porter**, director of the Snite Museum of Art and associate professor of art, art history and design, delivered the lecture "Victor Higgins and the Importance of the Museum of Fine Arts Collection" on the occasion of the 75th anniversary of the Museum of Fine Arts, Museum of New Mexico, in Santa Fe, N.M., Nov. 12. He spoke to the advisory council of the Harwood Foundation of the University of New Mexico in Taos, N.M., Nov. 13. He delivered the lecture "Victor Higgins and Friends: Real American Art at Last" at the Rockwell Museum for the exhibition "Transforming the Western Image in 20th Century American Art" in Corning, N.Y., Nov. 22.

**Irwin Press**, professor of anthropology, presented the lecture "Culture Clash and Value Conflict in the Emergency Department" at the annual meeting of the Emergency Nurses Association in Orlando, Fla., Oct. 3.

**John Roos**, associate professor of government and international studies, presented "Flannery O'Connor and Natural Law: A Reading of the 'The Displaced Person'" at the Northeastern Political Science Association annual meeting in Providence, R.I., Nov. 12-14.

**Mark R. Schurr**, visiting assistant professor of anthropology, presented a paper titled "The Bellinger Mound Site (12 SJ 6): New Data on a Goodall Hopewellian Site in Northwestern Indiana" at the session Current Research in Indiana Archaeology and Prehistory: 1992 at the Indiana Historical Society annual meeting in Indianapolis, Ind., Nov. 7.

**James H. Seckinger**, director of the National Institute for Trial Advocacy and professor of law, served as program coordinator and a faculty member for the NITA/Gunster, Yoakley & Stewart Law Firm Deposition Program in West Palm Beach, Fla., Nov. 5-7. He gave a lecture to the faculty on Effective Teaching Techniques. He was program coordinator and a faculty member for the NITA/Fish & Neave Law Firm Deposition Program in New York, N.Y., Nov. 19-21. He gave a lecture to the faculty on Effective Teaching Techniques.

**Stephen E. Silliman**, associate professor of civil engineering and geological sciences, served as a panel member for the review of a presentation by Donald Baker of Indiana-Michigan Power Company at the Business Leadership in the Environmental Crisis at the University of Notre Dame in Notre Dame, Ind., Sept. 28-29.

**Jeffrey L. Staley**, visiting assistant professor of theology, presented the paper "Reading with a Passion: John 18:1-19:42 and the Erosion of the Reader" to the Passion Narrative and Tradition in Early Christianity Group of the Society of Biblical Literature in San Francisco, Calif., Nov. 21.

**Wilhelm Stoll**, Duncan professor of mathematics, gave a colloquium lecture titled "The Lemma of the Logarithmic Derivative and Defect Relations" at the Mathematics Department of Kyoto University in Kyoto, Japan, Oct. 21. He participated and lectured on "O'Shea's Defect Relation for Slowly Moving Targets" at the international symposium Holomorphic Mappings, Diophantine Geometry and Related Topics held at RIMS in Kyoto, Japan, Oct. 26-30.

**Eugene Ulrich**, professor of theology, was an invited panelist discussing *Textual Criticism of the Hebrew Bible* by Emanuel Tov at the annual meeting of the Society of Biblical Literature in San Francisco, Calif., Nov. 22. He was invited as president of the International Organization for Septuagint and Cognate Studies, to deliver the eulogy "In Memoriam Professor Harry M. Orlinsky" for the first president of IOSCS at the Bible Translation session of that meeting, Nov. 23.

**Stephen H. Watson**, professor of philosophy, directed the Collegium Phaenomenologicum's 17th annual meeting at Perugia, Italy, July 13-Aug. 17. He organized the 31st annual meeting of the Society for Phenomenology and Existential Philosophy held in Boston, Mass., Oct. 8-11.

**James F. White**, professor of theology, presented the lecture "The Grammar of Church Architecture" at St. Michael's Episcopal Church in South Bend, Ind., Nov. 15.

**Rev. Oliver F. Williams, C.S.C.**, associate provost and associate professor of management, presented the Hesburgh lecture "Ethics in the Marketplace" in Kingston, Jamaica, Nov. 19. He was interviewed on the "Breakfast Club of Jamaica" by Beverly Manley and on the "Public Eye" of Jamaica by Ronnie Thwaites on Ethics in Business, Nov. 19.

# Documentation

## Official University of Notre Dame and Saint Mary's College Joint Academic Year Calendar for 1993-94

### Fall 1993 Semester

August 27 Friday

Orientation, enrollment and registration for new upper class  
and graduate students

August 27-29 Friday-Sunday

Orientation and counseling for freshmen

August 30 Monday

Enrollment for all continuing students and freshmen

August 31 Tuesday

Classes begin at 8 a.m.

September 8 Wednesday

Last date for all class changes

September 12 Sunday

Mass - formal opening of school year at Notre Dame

October 22 Friday

Mid-semester Deficiency Reports due in Registrar's Office by  
9 a.m.

October 23-31 Saturday-Sunday

Mid-semester break

November 1 Monday

Classes resume at 8 a.m.

November 5 Friday

Last day for course discontinuance at Notre Dame

November 15-December 2 Monday-Thursday

Registration for Spring Semester 1994

November 25-28 Thursday-Sunday

Thanksgiving holiday (Wednesday, November 24, is a  
holiday at Saint Mary's College)

November 29 Monday

Classes resume at 8 a.m.

December 10 Friday

Last Class Day for Notre Dame and Saint Mary's College

December 11-13 Saturday-Monday

Study Days for Notre Dame (no examinations)

December 11-12 Saturday-Sunday

Study days for Saint Mary's College (no examinations)

December 13-17 Monday-Friday

Final examinations at Saint Mary's College

December 14-18 Tuesday-Friday

Final examinations at Notre Dame

December 21 Tuesday

All grades due in the Registrar's Office by 4 p.m.

### CLASS MEETINGS\*

MWF	40
MW	27
TuTh	27

### NUMBER OF CLASS DAYS\*

	Mon.	Tues.	Wed.	Thurs.	Fri.	Total
August	0	1	0	0	0	1
September	4	4	5	5	4	22
October	3	3	3	3	4	16
November	5	5	4	3	3	20
December	1	1	2	2	2	8
Total	13	14	14	13	13	67

\* The number of class meetings and class days differ for  
Saint Mary's College

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## Spring 1994 Semester

January 10 Monday  
Orientation, enrollment and registration for all new students

January 11 Tuesday  
Enrollment for all continuing students

January 12 Wednesday  
Classes begin at 8 a.m.

January 20 Thursday  
Last date for all class changes

January 26 Wednesday  
Notre Dame Student Accounts Pre-Registration Deposit due for 1994-95

February 16 Wednesday  
Last date for return of Housing Contracts to Student Residences at Notre Dame

February 28 Monday  
Deadline for 1994-95 Financial Aid Application at Notre Dame and Saint Mary's College

March 4 Friday  
Mid-semester Deficiency Reports due in Registrar's Office by 4 p.m.

March 5-13 Saturday-Sunday  
Mid-semester break

March 14 Monday  
Classes resume at 8 a.m.  
Registration begins for 1994 Summer Session at Notre Dame

March 18 Friday  
Last day for course discontinuance at Notre Dame

April 1-4 Friday-Monday  
Easter Holiday

April 5 Tuesday  
Classes resume at 8 a.m.

April 5-20 Tuesday-Wednesday  
Registration for the Fall 1994-95 Semester

April 20-22 Wednesday-Friday  
Room Reservations for the Fall 1994-95 Semester at Student Residences, Notre Dame

April 27 Wednesday  
Last class day for Notre Dame

April 29 Friday  
Last class day for Saint Mary's College

April 28-May 1 Thursday-Sunday  
Study days for Notre Dame (no examinations)

April 30-May 1 Saturday-Sunday  
Study days for Saint Mary's College (no examinations)

May 2-6 Monday-Friday  
Final examinations

May 10 Tuesday  
All degree candidate grades are due in the Registrar's Office by 4 p.m.

May 11 Wednesday  
All other grades are due in the Registrar's Office by 4 p.m.

May 13-15 Friday-Sunday  
Commencement Weekend

### CLASS MEETINGS\*

MWF	41
MW	28
TuTh	28

### NUMBER OF CLASS DAYS\*

	Mon.	Tues.	Wed.	Thurs.	Fri.	Total
January	3	2	3	3	3	14
February	4	4	4	4	4	20
March	3	4	4	4	3	18
April	3	4	4	3	3	17
May	0	0	0	0	0	0
Total	13	14	15	14	13	69

\*The number of class meetings and class days differ for Saint Mary's College

## 1994 Summer Session

Enrollment- June 20  
Commencement- August 5

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## Faculty Senate Journal September 9, 1992

The chair Professor Richard Sheehan opened the meeting at 7:32 p.m. in room 202 of the Center for Continuing Education and asked Professor David O'Connor to offer the opening prayer. The senate then paused in tribute to our late colleague, Professor Mark Searle of the Theology Department. Professor David Burrell, C.S.C., spoke, and his words of remembrance are printed as Appendix A of this journal; this text will be sent to the University Provost and to the University Archives as a permanent memorial of Professor Searle's service and life; a copy will also be forwarded to his widow.

The chair distributed a roster for members to note proper address, phone numbers, etc. Each senator will receive a copy of the senate bylaws shortly. Sheehan announced that Professor William Eagan will serve as the senate parliamentarian for the year. According to the bylaws, senate meetings are open to all faculty and all are invited and encouraged to attend. At the request of some senators, the chair will try to emphasize orderly procedures in the running of meetings; each member, for instance, should be recognized by the chair before speaking.

He remarked that the senate as an institution has changed dramatically in his five years at the University. It owes a debt to former chair Professor Paul Conway for his substantial contributions to this improved standing of the body. The senate will try to continue to make progress, especially on governance, without the contentiousness that existed last year but with much more work now required of each individual senator.

On governance, meetings between the senate and the administration are continuing. For the colloquy, the senate and individual faculty have provided much information and we all expect this exchange to be two-way.

Senators should see other University committees, like College Councils and Faculty Board in Control of Athletics, as avenues for faculty input into governance issues and the senate itself should act as a monitor on them. The senate should also set an agenda for discussion, be proactive not reactive, to have a greater effect on governance. The senate is in a good position to achieve this.

Part of the senate's charge this year is to follow-up on those responsibilities given to us in the April Accords. On one, 9a, the senate's administration committee will study and recommend action on possibly including administrators as ex-officio members of the senate. On 9b, the Catholic character issue and the role of the faculty, our academic affairs

committee will undertake to review. Our student affairs committee will look into the question of teaching and research at the University. The benefits committee will redo the compensation report but at an earlier date than has been customary.

The chair then turned to the question of inviting guests to speak to the senate. The executive committee has recommended that, in addition to the annual visits by the president and provost, we hear from the director of admissions, the vice president for student affairs, and the director of human resources. Each one would be provided in advance with a list of questions/topics the senate would want to have addressed, and perhaps a specified time limit for the appearance.

The chair then asked Professor John Borkowski to report on the governance issue. A seven-member faculty committee met over the summer with the administration on this issue (Professors Conway, Mario Borelli, Frank Bonello, Philip Quinn, Frank Connolly and Borkowski; Burrell was out of the country but part of the group chosen). The agenda was partially set up by the April Accords, but there was latitude for more. The 10 hours of meetings were frank, cordial and more cooperative as they went on. The group was prepared for each meeting. Their first proposal, a president's advisory committee elected to suggest and advise, was not accepted; this was probably good based on the way decisions are made here, in a hierarchical manner, and this proposal would bypass that. It became clear that what Notre Dame really needs is a long-range strategic planning committee; there is no mechanism for this to occur, so it would be a major achievement to have faculty involved in the area of academic decision-making within a system that would work. Without the president's advisory committee and without the Forum, both of which were discarded in the summer's work, and with a restructured Academic Council and revitalized Faculty Senate, the strategic planning committee idea began to make progress. Another idea which was pursued only briefly was a faculty representative on the Board of Trustees; the board may consider a representative on its Student Affairs Committee at its next meeting.

Borkowski then asked Quinn to describe in some detail the way the discussions are proceeding on faculty participation in this proposed strategic planning committee. This became the central focus for the summer committee. Four models were presented by the faculty; the president has asked the officers to discuss these and present their views afterward. Quinn and the provost are serving as liaisons between the two committees, and they have met several times to report progress. An interim report is in draft. If the goal is to involve the faculty in strategic planning for the University, the best means appears to be to establish "an advisory committee to the provost for academic planning," composed of elected faculty, similar in stature to the Provost's



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Advisory Committee, but not functioning as a budget committee; its exact size and composition are still up for discussion. These details will be worked out this fall, so the committee can begin its work in the fall of 1993.

The senate interrupted its discussion of governance to hear a presentation and solicitation of input from the Committee on Structures and Processes of the Colloquy for the Year 2000. The senate was in recess during this period. However, the memo with questions for the faculty from this committee is printed as Appendix B of this journal. Members of the senate took the occasion to voice their views on the way the senate itself has functioned over the years, especially in recent years, on whether the senate is representative of faculty opinion, and on the manner in which the senate and other University bodies operate and interact with each other.

The senate, resuming its meeting, continued its discussion of governance. Some of the issues mentioned in the Colloquy session have also been discussed in the senate's executive committee. Empowerment — what should we do, what are our powers — has been referred to the Administration Committee; part of their work will be to indicate better means of communication with the faculty. The Benefits Committee will look into the question of "faculty member acting as administrator: Where is the line?"

O'Connor asked if we will be institutionalizing the new committee or entity by incorporation into the Academic Articles. Is the mechanism clear? Quinn responded that an advisory committee to the provost would not have to be approved by the Academic Council or put into the Academic Articles. O'Connor, probing further, believed that the new body or bodies should be in the articles, so it or they will be forced to continue. Conway was not as optimistic as Borkowski or Quinn about the results of the summer's work. We will have to follow up every section of the April Accords very carefully. He defended the senate's past representation of the faculty by pointing out all categories of the faculty have been and are members of the senate. John Affleck-Graves thought the senate gained ground last year because it reflected the feelings of the faculty and the faculty in turn supported the senate's actions. Now it must continue to use the means it has — meetings, referenda, information-gathering — to mobilize opinion. We have to let the administration know we surely do represent the faculty; the way to do that is to keep the faculty tuned in to us and for us to be tuned into our constituents. Professor Thomas Cashore mentioned that the last referendum he remembers was two years ago on the issue on the tenure notification controversy. Conway reminded the senate that throughout the length of the governance controversy — over three years — we have polled the faculty numerous times to solicit opinion and make sure we were in tune with the faculty. Sheehan told the senate that the executive committee

has discussed at least two ideas that might become faculty surveys this year.

Kantor, returning to O'Connor's earlier point, agreed that the April Accords are not finished, they must be monitored, and their reforms should be institutionalized. For Connolly, the definitions of the role of University bodies were not clear and sharp at all; we should insist that they all be defined anew. One area he sees where improvement can take place is to have senior administrators as ex-officio members of the senate; with them as members we can demand answers and accountability. Borkowski, going beyond O'Connor's point, insisted that any changes be institutionalized of course, but only after thorough and open discussion and endorsement at the faculty level. Lopez supported that. He went on, referring to the administration's refusal to endorse the senate's tenure notification recommendation, that, even without a formal change in the rules, department chairs are notifying faculty of tenure decisions on their own, thus acquiescing to the senate's and the faculty's expressed feeling on this and ignoring the administration's view. The administration has brought upon itself this kind of flouting of the rules. It would be useless to ask for faculty views, according to Bruns, in a vacuum, without having first created a context for so doing so or an expectation. In summary, Quinn took it as his job to convey the feeling of the senate back to the summer committee that whatever is decided should be incorporated into the Academic Articles and that nothing should be considered final until the faculty has had an opportunity for extensive discussion.

The next item on the agenda was an election for a position on the Faculty/Student Committee on Women. The only nominee was Paul Conway; Professor Jean Porter moved and Quinn seconded that his nomination be declared unanimous, and the senate concurred.

## Standing Committee Reports

The chair asked each committee head to state the issues which will be taken up during the year.

A. Academic Affairs - chair David Burrell, C.S.C., reviewed the governance issue, and thought the "faculty voice" had been diffused in several areas; now it appears that this may be changing after the initiatives undertaken last year. He believed the first priority of his committee would be to monitor those initiatives and offer critical or crucial advice. In addition, he would want to monitor the issue of Catholic character as proposed in the April Accords, as well as other initiatives in this area underway in the Colloquy and in the Miscamble/Lent/Scully/Plantinga faculty discussions. Later we will want to determine and propose some specific steps the senate itself should take.

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B. Administration - chair Clark Power will want to look over the April Accords, especially in regard to membership for a top administrator, and see if the senate's bylaws need review and updating. He takes as his committee's purview the monitoring of all University committees and bodies, especially the Trustees and College Councils.

C. Benefits - chair John Affleck-Graves will redo the compensation report in the first semester, and will try to report figures by college as well as by rank. Benefits will also look into the daycare issue and will accept suggestions from faculty members for other topics.

D. Student Affairs - chair George Lopez reported that the student reports on teaching and research will form the basis of their work. They will also follow-up on our resolution last May on Gays and Lesbians at Notre Dame/Saint Mary's College (GLND/SMC).

## New Business

The chair has received a letter from senator Edward Vasta on the operation of the University Bookstore, requesting that the senate study the problems students and others have been finding for some time. The chair asked both the administration and the Student Affairs Committees to review the situation and report back to the senate. Vasta saw three issues:

1. It is very inconvenient to buy books at the start of the semester — long lines, crowding, etc.
2. It may be worthwhile to investigate a student idea that course textbook sales on this campus should be "non-profit" as part of the academic not merchandising mission.
3. Colloquy 2000 has decided to build a new bookstore, so what kind of bookstore will it be?

A motion was made to direct the provost to communicate with the CAP committee when he expects to make a recommendation at variance with what the CAP has made; this would be similar to the position of the deans. The chair asked Academic Affairs to study this. Two questions on the bylaws went to administration. The secretary was directed to prepare a one-page summary of a senate meeting for distribution to all faculty within 10 days of the meeting. The journal as currently done will continue. After some discussion on the best way to proceed, O'Connor moved to send all faculty members a summary of the major decisions and outstanding issues of each meeting as quickly as practical; Burrell seconded, Conway called the question, and the senate voted to have the secretary do this.

The journal of May 5, 1992, was presented. Several corrections were requested and made. The senate accepted the journal as amended. The Colloquy group on human resources has requested to meet with the senate. Because of time constraints it would have to be a special meeting within the month of September. The chair suggested that anyone who wishes to meet with them do so on Thursday, September 24, at 7:30 p.m. Members of the Executive and Benefits Committees were especially urged to attend.

In other New Business, Connolly presented a motion (Cashore seconded) on the administration's rejection of recognition for GLND/SMC, asking the vice president for student affairs to meet with the senate to discuss the reasoning behind the decision. The motion is printed as Appendix C of this journal. Power indicated that Vice President O'Hara may well be open to an invitation like this. Professor James Collins thought the motion should go to the Student Affairs Committee for study before voting. Vasta supported the motion. O'Connor believed that if we do invite O'Hara — and we should — we should first have a copy of the constitution that was rejected; we did not have this document when we voted in May, and that was unfortunate. Lopez pointed out that in her lengthy rejection letter to the group, she never commented on the senate's position; our view apparently had no bearing on her decision. Vasta asked if the senate's action had been conveyed to her; Conway emphatically said yes. Porter called the question, Quinn seconded, and the senate concurred unanimously.

The chair announced that our next meeting on October 28 will be our annual conversation with the president. The executive committee will meet before to prepare questions and topics to be given to him in advance.

O'Connor moved a resolution to confirm our earlier discussion on the Senate's feelings about meetings within the colleges to discuss proposals for governance, referenda and incorporation of the new proposals in the Academic Articles. Bruns seconded. The resolution is printed as Appendix D of this journal. Connolly thought past experience with such meetings had not been successful or well-attended. Borelli believed such a proposal should best be presented and voted upon in our next meeting; he moved to table it and Quinn seconded. The senate agreed to table.

The chair announced that the committees of the senate will meet briefly and then senators are invited to a reception in the lobby.

Professor Alvin Plantinga moved to adjourn, Connolly seconded and the senate agreed to adjourn at 10 p.m.

# Documentation

**Present:** Affleck-Graves, Bender, Borelli, A.C., Borelli, M., Borkowski, Bruns, Burrell, Cashore, Coll, Collins, Connolly, Conway, Detlefsen, Fallon, Higgins, Jenkins, Jordan, S.K., Kantor, Leighton, Lombardo, Lopez, McDonald, O'Brien, O'Connor, D., Parnell, Pattison, Plantinga, Porter, Power, Powers, Quinn, Sauer, Serianni, Sheehan, Sporleder, Tidmarsh, Vasta, Yoder

**Absent:** Chang, Garg, Goetz, Hayes, Herro, Lamberti, Litzinge, Martin, Miller, Tageson

**Excused:** Bartlett, Eagan, Jordan, M.D., Pillay, Shephard, Vecchio

## Appendix A

**Tribute to Mark Searle**  
Department of Theology  
by David B. Burrell, C.S.C.

Mark Searle, a colleague of ours in Theology, a native of England, spent a number of years as a Franciscan priest but discovered that his vocation lay in the married life. He married Barbara Schmidt and had three children. Some sixteen months ago Mark was diagnosed with liver cancer of a very rare variety, and as I spoke with him in the early months of that, he said, "You know there is a system out there. When you get into it, you are reminded of what human life is about. When you leave it, you walk right back into the illusion that it works well." Mark and Barbara very assiduously followed a regimen of not just medication, but diet, and within the sixteen months, his illness took its final toll, leaving Barbara and three relatively young children.

To those of us in his department as colleagues, Mark Searle was one of those people from whom one always learned. I can say for myself that whenever Mark was giving a presentation, I went. The topic was unimportant; what Mark had to say was always significant. He was a person who was deeply in love with the intellectual life. He was a strong believer in the resurrection of Jesus, and that we share in that resurrection.

A marvelous father, husband, colleague — we shall miss Mark, and we keep Barbara and the children in our prayers. Those of us who knew him well will continue to help them in every way we can.

Faculty Senate  
September 9, 1992

## Appendix B

### Questions to the Faculty Senate from the Committee on Structures and Processes of the Colloquy for the Year 2000

Father Malloy has asked our committee to look into the way in which the various university committees contribute to the process of academic decision making and consultation on campus.

He has asked us to make proposals for change, when that seems appropriate. Our committee is one arm of the Colloquy.

We are therefore seeking your opinion about the efficacy of the various councils of the university, and of the Faculty Senate in particular. Below is a list of questions we hope to discuss at tonight's meeting. We welcome your comments on them.

If you wish, feel free to make written comments on the back of this sheet and give it to Frank Connolly (mailing address: Department of Mathematics, Room 235, CCMB).

1. Do you have any concerns with respect to how issues are raised or problems are analyzed in the University's structures, such as the College Councils, the Academic Council and the Faculty Senate?
2. Is there adequate follow through on issues and recommendations raised by these councils.
3. Is the Faculty Senate efficiently run? Do you think it contributes significantly to the academic progress of the University? Is it being used to discuss matters proportionate to its competence?
4. Is there sufficient connection between the Faculty Senate and other University structures?

Members of the Committee on Structures and Processes:  
F. Connolly (Mathematics), C. Lennon (Alumni Association), J. Ross, C.S.C. (Freshman Seminar Program), R. Warner, C.S.C. (Special Counsellor to the President), R. Winsor (Human Resources), D. Woods (Support Services)

# Documentation

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## Appendix C

Resolution by Frank Connolly  
(second: Tom Cashore)

Be it resolved

that the Senate request the vice president for student affairs come to the Senate to discuss the Administration's position on the issue of its rejection of recognition for GLND/SMC. Moreover, that if the vice president for student affairs requests that this portion of the meeting be closed, we agree to it.

passed unanimously  
September 9, 1992

## Appendix D

Resolution by Senator David O'Connor

Be it resolved

a) that the Faculty Senate organize informational meetings in each college to discuss the draft proposals generated by the "summer committee";

b) that the revised proposals be submitted to the Faculty for approval in a referendum;

c) that changes in the governance structure and procedures be incorporated into the Academic Articles.

proposed: September 9, 1992

second: Senator Gerald Bruns

action: tabled

# The Graduate School Research Division

## Current Publications and Other Scholarly Works

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

### COLLEGE OF ARTS AND LETTERS

#### American Studies

- Schmuhl, Robert P.  
R.P. Schmuhl. 1992. No More Debates over Debates; Make Them Prerequisites for Campaign Cash. *Chicago Tribune* 146(285):4, Perspective Section.  
R.P. Schmuhl. 1992. Tom Wicker's Congressman is a Cautionary Candidate. Review of Donovan's Wife, by T. Wicker. *Chicago Tribune* 146(313):6, Section 14.  
R.P. Schmuhl. 1992. Men of the Century Who Helped Shape America's Views. Review of Grand Illusion: Critics and Champions of the American Century, by J.B. Judis. *Philadelphia Inquirer* 326(68):2, Section N.  
R.P. Schmuhl. 1992. Watch Body Language as Well as Words. *USA Today* 11(21):15, Section A.

#### Art, Art History and Design

- Adcock, Craig E.  
C.E. Adcock. 1992. Image/Music/Text: Terry Allen's Youth in Asia Series. Pages 1-16 in, Youth in Asia: Terry Allen. Southeastern Center for Contemporary Art, Winston-Salem, North Carolina.  
C.E. Adcock. 1992. Trip to MARS. Pages 17-19 in, Youth in Asia: Terry Allen. Southeastern Center for Contemporary Art, Winston-Salem, North Carolina.  
Goralski, William J.  
W.J. Goralski. 1992. LODEX: A Fire Alarm that Meets ADA Standards for Wheelchair Users. Kevcor, Limited, Doylestown, Pennsylvania.  
W.J. Goralski, product designer. 1992. LODEX described in, Universal Design in Focus. *Metropolis Magazine* (11/92):50.

#### Economics

- Wilber, Charles K.  
C.K. Wilber. 1992. Bread, Butter and Infrastructure: Economic Issues in the Campaign. *Commonweal* 119(17):11-16.

### English

- Kline, Edward A.  
F. O'Hare and E.A. Kline. 1993. The Modern Writer's Handbook, Annotated Instructor's Third Edition. Macmillan, New York, New York. xxx + 765 pp.  
Ziarek, Ewa  
E. Ziarek. 1992. Taking Chances: The Feminine Genealogy of Style in Marianne Hauser's The Talking Room. *Contemporary Literature* 33(3):480-501.

#### Freshman Writing Program

- Masin, Anton C.  
A.C. Masin. 1992. An Unrecorded Exemplar of a Marad Royal Building Inscription Cylinder of Nebuchadnezzar II at the University of Notre Dame. *Bulletin of the Canadian Society for Mesopotamian Studies* 24(1992):1-9.

#### Government and International Studies

- Roos, John  
J. Roos. 1992. The Political in Flannery O'Connor: A Reading of "A View of the Woods." *Studies in Short Fiction* 29(2):161-180.

### History

- Hamlin, Christopher S.  
C.S. Hamlin. 1992. Edwin Chadwick and The Engineers, 1842-1854. Systems and Antisystems in the Pipe and Brick Sewers War. *Technology and Culture* 33(4):680-709.  
C.S. Hamlin. 1992. Review of Lives at Risk: Public Health in Nineteenth Century Egypt, by L. Kuhnke. *Social History of Medicine* 5(2):364-365.  
C.S. Hamlin. 1992. Review of The Sanitarians: A History of American Public Health, by J. Duffy. *Technology and Culture* 33(4):826-827.  
Walicki, Andrzej S.  
A.S. Walicki. 1992. Legal Philosophies of Russian Liberalism. University of Notre Dame Press, Notre Dame, Indiana. 477 pp.

### Music

- Youens, Susan L.  
S.L. Youens. 1992. Franz Schubert: Die Schöne Müllerin. Cambridge University Press, Cambridge, England. 123 pp.  
S.L. Youens. 1992. Hugo Wolf: The Vocal Music. Princeton University Press, Princeton, New Jersey. 384 pp.

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## Theology

- Attridge, Harold W.  
H.W. Attridge and G. Hata, eds. 1992. Page 802 in, Eusebius, Christianity and Judaism. Wayne State University Press, Detroit, Michigan.
- McBrien, Rev. Richard P.  
Rev. R.P. McBrien. 1992. Contemporary Catholic Discussion of the Church. *Sacred Heart University Review* 12(1,2):59-69.
- Rev. R.P. McBrien. 1992. Nurturing the Church and Society. *Catholic Aids Link* (11):3-6.
- Staley, Jeffrey L.  
J.L. Staley. 1992. Reading with a Passion: John 18:1-19:42 and the Erosion of the Reader. *SBL Seminar Papers* 31:61-81.
- White, Rev. James F.  
Rev. J.F. White. 1992. Documents of Christian Worship: Descriptive and Interpretive Sources. Westminster/John Knox Press, Louisville, Kentucky. 257 pp.
- Yoder, John H.  
J.H. Yoder. 1992. Texts that Serve or Texts that Summon: A Response to Michael Walzer. *Journal of Religious Ethics* 20(2):229-234.

## COLLEGE OF SCIENCE

### Biological Sciences

- Grimstad, Paul R.  
C.F. Bosio, R.E. Thomas, P.R. Grimstad and K.S. Rai. 1992. Variation in the Efficiency of Vertical Transmission of Dengue-1 Virus by Strains of *Aedes albopictus* (Diptera: Culicidae). *Journal of Medical Entomology* 29(6):985-989.
- Rai, Karamjit S.  
S. Kambhampati, K.S. Rai and D.M. Verleye. 1992. Frequencies of Mitochondrial DNA Haplotypes in Laboratory Cage Populations of the Mosquito, *Aedes albopictus*. *Genetics* 132:205-209.
- S. Kambhampati, W.C. Black and K.S. Rai. 1992. Random Amplified Polymorphic DNA of Mosquito Species and Populations (Diptera: Culicidae): Techniques, Statistical Analysis and Applications. *Journal of Medical Entomology* 29(6):939-945.
- See under Grimstad, Paul R. 1992. *Journal of Medical Entomology* 29(6):985-989.

### Mathematics

- Alber, Mark S.  
M.S. Alber and J.E. Marsden. 1992. On Geometric Phases for Soliton Equation. *Communications in Mathematical Physics* 149:217-240.

## Hu, Bei

- B. Hu and L. Wang. 1992. A Free Boundary Problem Arising in Electrophotography: Solutions with Connected Toner Region. *SIAM Journal on Mathematical Analysis* 23(6):1439-1454.
- A. Friedman, B. Hu and J.J.L. Velazquez. 1992. A Free Boundary Problem Modeling Loop Dislocations in Crystals. *Archives for Rational Mechanics and Analysis* 119:229-291.
- A. Friedman and B. Hu. 1992. Homogenization Approach to Light Scattering from Polymer-Dispersed Liquid Crystal Films. *SIAM Journal on Applied Mathematics* 52(1):46-64.
- B. Hu. 1992. A Nonlinear Nonlocal Parabolic Equation for Channel Flow. *Nonlinear Analysis, Theory, Methods and Applications* 18(10):973-992.

## Yin, Hong-Ming

- J.M. Chadam, A. Peirce and H.-M. Yin. 1992. The Blowup Property of Solutions to Some Diffusion Equations with Localized Nonlinear Reactions. *Journal of Mathematical Analysis and Applications* 169(2):313-328.
- H.-M. Yin. 1992. A Singular-Degenerate Free Boundary Problem Arising from the Moisture Evaporation in a Partially Saturated Porous Medium. *Annali di Matematica Pura ed Applicata* 161:379-397.
- H.-M. Yin. 1992. The Solvability for a Class of Nonlinear Integrodifferential Equations of Parabolic Type. *Journal of Partial Differential Equations* 5(3):46-60.
- H.-M. Yin. 1992. Weak and Classical Solutions of Some Nonlinear Volterra Integrodifferential Equations. *Communication in Partial Differential Equations* 17(7,8):1369-1385.

### Physics

## Garg, Umesh

- R.L. Kozub, C.R. Bybee, M.M. Hindi, J.F. Schriener, Jr., R. Holzmann, R.V.F. Janssens, T.L. Khoo, W.C. Ma, M.W. Drigert, U. Garg and J.J. Kolata. 1992. Yrast Decays in  $^{43}\text{K}$ . *Physical Review C* 46:1671-1676.
- Kolata, James J.  
R.A. Kryger, J.J. Kolata, W. Chung, S. Dixit, R.J. Tighe, J.J. Vega, P.A. DeYoung, C. Copi, J. Sarafa, G.P. Gilfoyle and S.K. Sigworth. 1992. Neutron-Charged-Particle Correlations in the 3.8 MeV per Nucleon  $^{16}\text{O} + ^{12}\text{C}$  and 13.4 MeV per Nucleon  $^{16}\text{O} + ^{27}\text{Al}$  Reactions. *Physical Review C* 46:1887-1902.
- J.J. Kolata, M. Zahar, R. Smith, K. Lamkin, M. Belbot, R.J. Tighe, B.M. Sherrill, N.A. Orr, J.S. Winfield, J.A. Winger, S.J. Yennello, G.R. Satchler and A.H. Wuosmaa. 1992. Quasielastic Scattering of  $^{11}\text{L}$  and  $^{11}\text{C}$  from  $^{12}\text{C}$  at 60 MeV/Nucleon. *Physical Review Letters* 69:2631-2634.
- See under Garg, Umesh. 1992. *Physical Review C* 46:1671-1676.
- E.F. Aguilera, J.J. Vega, J.J. Kolata and R.J. Tighe. 1992. Sub-Barrier Fusion of O + Ge Systems. *Revista Mexicana de Fisica* 38:63-66.

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Livingston, A. Eugene

See under Tanner, Carol E. 1992. *Physical Review Letters* 69(19):2765-2767.

Poirier, John A.

A. Trzupek, J. Kochocki, Y. Lu and J.A. Poirier. 1992. The Secondary Gamma Composition from Hadronic and Electromagnetic Extensive Air Showers at 10, 100, 1000 and 10,000 TeV. *Journal of Physics G: Nuclear Particle Physics* 18:1849-1861.

Tanner, Carol E.

C.E. Tanner, A.E. Livingston, R.J. Rafac, F.G. Serpa, K.W. Kukla, H.G. Berry, L. Young and C.A. Kurtz. 1992. Measurement of the  $6p\ 2P_{3/2}$  State Lifetime in Atomic Cesium. *Physical Review Letters* 69(19):2765-2767.

Trzupek, Adam

See under Poirier, John A. 1992. *Journal of Physics G: Nuclear Particle Physics* 18:1849-1861.

Wayne, Mitchell R.

M.R. Wayne, et al. (NA14' Collaboration). 1992. DD Correlations in Photoproduction. *Physics Letters B* 278:385-392.

M.R. Wayne, et al. (DELPHI Collaboration). 1992. Determination of  $\alpha_s$  in Second Order QCD from Hadronic Z Decay. *Zeitschrift für Physik C* 54:55-73.

M.R. Wayne, et al. (DELPHI Collaboration). 1992. Measurement of the Average Lifetime of B Hadrons. *Zeitschrift für Physik C* 53:567-580.

M.R. Wayne, et al. (DELPHI Collaboration). 1992. A Measurement of  $\sin^2\theta_W$  from the Charge Asymmetry of Hadronic Events at the  $Z^0$  Peak. *Physics Letters B* 277:371-382.

M.R. Wayne, et al. (DELPHI Collaboration). 1992. Measurement of the  $Z^0$  Branching Fraction to b Quark Pairs Using the Boosted Sphericity Product. *Physics Letters B* 281:383-393.

M.R. Wayne, et al. (DELPHI Collaboration). 1992. Study of Final State Photons in Hadronic  $Z^0$  Decay and Limits on New Phenomena. *Zeitschrift für Physik C* 53:555-565.

## COLLEGE OF ENGINEERING

### Aerospace and Mechanical Engineering

Powers, Joseph M.

J.M. Powers. 1992. Comment on Approximate Formula of Weak Oblique Shock Wave Angle. *American Institute of Aeronautics and Astronautics* 30(11):2801.

### Chemical Engineering

Brennecke, Joan F.

See under RADIATION LABORATORY; Chateaufneuf, John E. 1992. *Journal of the American Chemical Society* 114(22):8455-8463.

Chang, Hsueh-Chia

N. Acharya, M. Sen and H.-C. Chang. 1992. Heat Transfer Enhancement in Coiled Tubes by Chaotic Mixing. *International Journal of Heat and Mass Transfer* 35:2475-2489.

Hill, Davide A.

See under Electrical Engineering; Bernstein, Gary H. 1992. *Journal of the Electrochemical Society* 139(10):2952-2956.

D.A. Hill, X. Huang, G. Bazan and G.H. Bernstein. 1992. Swelling and Surface Forces-Induced Instabilities in Nanoscopic Polymeric Structures. *Journal of Applied Physics* 72(9):4088-4094.

## Civil Engineering and Geological Sciences

Neal, Clive R.

G.A. Snyder, L.A. Taylor and C.R. Neal. 1992. A Chemical Model for Generating the Sources of Mare Basalts: Combined Equilibrium and Fractional Crystallization of the Lunar Magmasphere. *Geochimica et Cosmochimica Acta* 56(10):3809-3823.

## Electrical Engineering

Bernstein, Gary H.

See under Chemical Engineering; Hill, Davide A. 1992. *Journal of Applied Physics* 72(9):4088-4094.

X. Huang, G. Bazan, G.H. Bernstein and D.A. Hill. 1992. Stability of Thin Resist Walls. *Journal of the Electrochemical Society* 139(10):2952-2956.

## COLLEGE OF BUSINESS ADMINISTRATION

### Accountancy

Misiewicz, Kevin M.

D.C. Marshall, K.M. Misiewicz and J.E. Parker. 1992. Programmed Guide to Tax Research, Fifth Edition. South-Western Publishing Company, Cincinnati, Ohio. 348 pp.

K.M. Misiewicz. 1992. Revolutionizing Tax Practice. *New Accountant* 8(3):20-24.

## LAW SCHOOL

Fick, Barbara J.

B.J. Fick. 1992. Federal Labor and Employment Law. Pages 5.1-5.68 in, L.F. Chanin, ed., *Specialized Legal Research*. Little, Brown and Company, Inc., Boston, Massachusetts.

# The Graduate School Research Division

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## INSTITUTE FOR PASTORAL AND SOCIAL MINISTRY

Tebbe, Francis S., O.F.M.

F.S. Tebbe, O.F.M., ed. 1992. Church Divinity 1991-92. Volume in the Church Divinity Monograph Series. Graduate Theological Foundation, Donaldson, Indiana.

F.S. Tebbe, O.F.M. 1992. Review of The Universal Catechism Reader, T.J. Reese, S.J., ed. *New Theology Review* 5(4):91-93.

## RADIATION LABORATORY

Chateauneuf, John E.

C.B. Roberts, J.E. Chateauneuf and J.F. Brennecke. 1992. Unique Pressure Effects on the Absolute Kinetics of Triplet Benzophenone Photoreduction in Supercritical CO<sub>2</sub>. *Journal of the American Chemical Society* 114(22):8455-8463.

Kamat, Prashant V.

A. Samanta and P.V. Kamat. 1992. Quenching of Fullerene Triplets by Stable Nitroxide Radicals. *Chemical Physics Letters* 199(6):635-639.

LaVerne, Jay A.

See under Pimblott, Simon M. 1992. *Journal of Physical Chemistry* 96(22):8904-8909.

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S.M. Pimblott and J.A. LaVerne. 1992. Cooperative Effects of Scavengers on the Scavenged Yield of the Hydrated Electron. *Journal of Physical Chemistry* 96(22):8904-8909.

## UNIVERSITY LIBRARIES

Miller, Robert C.

R.C. Miller. 1992. Wiza i Zarzadzanie Bibliotekami. *Bibliotekarz* (7-8):13-15.



# The Graduate School Research Division

## Summary of Awards Received and Proposals Submitted

In the period October 1, 1992, through October 31, 1992

### AWARDS RECEIVED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	4	237,063	9	617,566	13	854,629
Facilities and Equipment	0	0	1	10,000	1	10,000
Instructional Programs	1	3,900	0	0	1	3,900
Service Programs	0	0	0	0	0	0
Other Programs	<u>0</u>	<u>0</u>	<u>4</u>	<u>1,974,600</u>	<u>4</u>	<u>1,974,600</u>
Total	5	240,963	14	2,602,166	19	2,843,129

### PROPOSALS SUBMITTED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	11	2,432,017	25	4,509,505	36	6,941,52
Facilities and Equipment	2	76,863	3	4,824,394	5	4,901,257
Instructional Programs	0	0	3	313,674	3	313,674
Service Programs	0	0	0	0	0	0
Other Programs	<u>0</u>	<u>0</u>	<u>1</u>	<u>32,376</u>	<u>1</u>	<u>32,376</u>
Total	13	2,508,880	32	9,679,949	45	12,188,829

# The Graduate School Research Division

## Awards Received

In the period October 1, 1992, through October 31, 1992

### AWARDS FOR RESEARCH

#### Aerospace and Mechanical Engineering

Nelson, R., Jumper, E.  
Theoretical Study of Vortex Breakdown  
Department of the Air Force  
\$66,203 12 months

Dunn, P., Thomas, F.  
Experiments Characterizing Vorticity Wave/Shock  
Interaction  
McDonnell Aircraft Co.  
\$52,250 12 months

#### Biological Sciences

Hyde, D.  
Molecular Analysis of Phototransduction in *Drosophila*  
National Institute of Health  
\$95,163 24 months

Lamberti, G., Lodge, D.  
Interactions of Zebra Mussel and Crayfish  
Environmental Protection Agency  
\$98,393 24 months

Boyd, S.  
Sexual Dimorphism in Neuropeptide Systems  
National Institute of Health  
\$100,121 12 months

#### Chemical Engineering

Varma, A.  
Inorganic Membrane Reactors  
National Science Foundation  
\$77,641 12 months

Kantor, J.  
Studies on Integrated Process Monitoring and Control  
National Science Foundation  
\$90,000 12 months

Chang, H.  
Nonlinear Dynamics and Control of Complex Patterns  
National Science Foundation  
\$59,079 24 months

Basu, S.  
Glycolipid Metabolism in Normal and Pathological  
Tissues  
National Institute of Health  
\$16,779 12 months

#### Center for the Study of Contemporary Society

Dawson, G., Santos, J.  
Survey Funding for Gerontological and Geriatrics  
Specialization  
Retirement Resource Foundation  
\$24,000 12 months

#### Electrical Engineering

Huang, Y., Liu, R.  
Image Project Correlation Studies Report  
W.J. Schafer Association, Inc.  
\$85,000 12 months

Alcock, C.  
On-Line Sensor Development for I.F.R.  
Argonne National Laboratory  
\$25,000 8 months

#### Physics

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

### AWARDS FOR FACILITIES AND EQUIPMENT

#### Electrical Engineering

McGinn, P.  
Differential Scanning Calorimeter  
International Business Machines  
\$10,000 12 months

### AWARDS FOR INSTRUCTIONAL PROGRAMS

#### Law School

McLean, W.  
Food and Drug Law Course  
Food and Drug Law Institute  
\$3,900 4 months

### AWARDS FOR OTHER PROGRAMS

#### Aerospace and Mechanical Engineering

Lucey, J., Berry, W.  
NDEADC  
University City Science Center  
\$54,600 23 months

# The Graduate School Research Division

## Graduate School

Diffley, P.  
Jacob Javitis Fellowship Program  
Department of Education  
\$32,000 12 months

Hatch, N.  
Evangelical Scholars Project  
Pew Charitable Trust  
\$1,885,000 36 months

## University Libraries

Ames, C.  
Brief Record Project 2: Catholic Pamphlet Collection  
Our Sunday Visitor, Inc.  
\$3,000 9 months

## Proposals Submitted

In the period October 1, 1992, through October 31, 1992

### PROPOSALS FOR RESEARCH

#### Aerospace and Mechanical Engineering

Nelson, R.  
Dynamic Vortex Breakdown  
Institute for Aerospace Research  
\$47,946 12 months

Stanisic, M.  
Kinematic Design and Control of Singularity Free Manipulators  
National Science Foundation  
\$177,390 36 months

#### Anthropology

Schurr, M., Bellis, J.  
Mortuary Sites in the Northern Tier Counties of Indiana  
Indiana Department of Natural Resources  
\$44,220 11 months

#### Biological Sciences

McAbee, D.  
Molecular Basis of Lactoferrin-Cell Interactions  
National Institute of Health  
\$105,248 12 months

Hyde, D.  
Molecular Analysis of Phototransduction in *Drosophila*  
National Institute of Health  
\$236,288 12 months

Craig, G.  
Vector Competence for La Crosse Virus in *Aedes*  
National Institute of Health  
\$337,149 12 months

Fraser, M.  
Transposon Mutagenesis of NPV  
National Institute of Health  
\$104,566 12 months

Jensen, R.  
Flora of Indiana Database  
National Science Foundation  
\$141,196 24 months

Adams, J.  
Molecular Analysis of Apical Organelles of Plasmodium  
National Institute of Health  
\$94,786 12 months

#### Biological Sciences

Goetz, F.  
PI/PKC and Ovulation  
National Institute of Health  
\$97,405 12 months

#### Civil Engineering and Geological Sciences

Kareem, A.  
Hybrid Liquid Dampers  
National Science Foundation  
\$271,980 36 months

Makris, N., Hill, D.  
Seismic Protection of Structure  
National Science Foundation  
\$256,244 24 months

Makris, N.  
Nonlinear Method for Analysis of Pile Foundations  
National Center for Earthquake Engineering Research  
\$48,545 12 months

Spencer, B., Sain, M.  
Reliability and Safety of Controlled Structures  
National Science Foundation  
\$553,083 36 months

#### Chemical Engineering

McCready, M.  
Evolution of Flow Disturbances  
Department of Energy  
\$56,000 12 months

Hill, D.  
Presidential Faculty Fellow Program  
National Science Foundation  
\$500,000 60 months

# The Graduate School Research Division

## Chemistry and Biochemistry

- Blasquez, V.  
Structure and Function of Chromatin in B-Cell  
Development  
American Cancer Society  
\$533,316 36 months
- Miller, M.  
Drugs and Delivery Systems for Opportunistic Infections  
National Institute Health  
\$193,900 12 months
- Castellino, F., Bretthauer, R.  
Oligosaccharide Assembly on Recombinant Proteins  
National Institute Health  
\$222,336 12 months

## Electrical Engineering

- Costello, D.  
Bandwidth Efficient Coding and Coded Modulation  
Techniques  
NASA - Goddard Space Flight  
\$180,837 24 months
- Sauer, K.  
Model Based Tomography  
National Science Foundation  
\$399,506 36 months

## Mathematics

- Stanton, N.  
Partial Differential Equations and Several Complex  
Variables  
National Science Foundation  
\$124,915 36 months
- Migliore, J., Rosenthal, J.  
Algebraic Coding Theory  
National Security Agency  
\$92,497 24 months
- Sommese, A.  
Overconstrained Mechanisms and Complex Algebraic  
Geometry  
National Science Foundation  
\$105,771 36 months
- Alber, M.  
Geometric Asymptotics for Nonlinear Problems  
National Science Foundation  
\$74,138 36 months
- Yin, H.  
Nonlinear Partial Differential Equations and Applications  
National Science Foundation  
\$77,208 36 months

Snow, D.

- Complex Homogeneous Spaces  
National Science Foundation  
\$83,015 36 months

## Philosophy

- Manier, A.  
Psychoanalysis, Psychiatry and Their Neighboring  
Disciplines  
National Endowment for the Humanities  
\$177,601 36 months

## Physics

- Lundeen, S.  
Fast Beam Studies of Excited States of Atoms and  
Molecules  
National Science Foundation  
\$211,342 12 months
- Rettig, T., Tegler, S.  
XCN Abundance in Dust Shells Around Main Sequence  
Star  
Kitt Peak Nalt Observatory  
\$0 3 months
- Biswas, N., Ruchti, R., et al.  
Study of Particle Production and Detector Development  
National Science Foundation  
\$442,012 12 months
- Ruggiero, S., Choudhary, K.  
Hall-Effect Microprobe: Miscon Capital Equipment  
Request  
Purdue University  
\$47,750 10 months
- Tomasch, W., Furdyna, J.  
Microwave Magneto-Dissipation in Superconductors  
Purdue University  
\$4,441 12 months
- Tanner, C.  
Presidential Faculty Fellows Program  
National Science Foundation  
\$500,000 60 months
- Shephard, W., Cason, N., et al.  
Experimental Research in Elementary Particle Physics  
National Science Foundation  
\$395,128 12 months

## Sociology

- Glass, J., Fujimoto, T.  
U.S.-Japan Gender Comparison of Worker Attitudes  
National Science Foundation  
\$3,763 2 months

# The Graduate School Research Division

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## PROPOSALS FOR FACILITIES AND EQUIPMENT

### Civil Engineering and Geological Sciences

Makris, N.

Experimental Methods in Structural Engineering  
National Science Foundation  
\$69,394                      30 months

### Electrical Engineering

McGinn, P.

X-Ray Microanalysis System  
Purdue University  
\$80,000                      12 months

### College of Engineering

Spencer, B.

Computer Aided Engineering Software for Undergraduate  
Education  
Aries Tech  
\$4,675,000                      12 months

### Physics

Tomasch, W., Furdyna, J.

Magneto Dissipation in Superconductors  
Purdue University  
\$19,773                      12 months

Blackstead, H.

Microwave Dissipation in High Temperature  
Superconductors  
Purdue University  
\$57,090                      12 months

## PROPOSALS FOR INSTRUCTIONAL PROGRAMS

### Civil Engineering and Geological Sciences

Halfman, J., Rigby, J.

Practical Environmental Geology and the Liberal Arts  
Major  
Department of Education  
\$131,539                      36 months

### Chemistry and Biochemistry

Huber, P.

Protein Binding Domains on Eukaryotic SS rRNA and  
rDNA  
National Institute of Health  
\$4,211                      3 months

## Graduate School

Diffley, P.

Creating a Permanent Record of Teaching Workshops  
Department of Education  
\$177,924                      24 months

## PROPOSALS FOR OTHER PROGRAMS

## Graduate School

Diffley, P., Poole, R.

Philosophic Consciousness vs. Utopianism in Russia  
Department of Education  
\$32,376                      8 months

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# Notre Dame

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# R E P O R T

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