

NOTRE DAME REPORT

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OCTOBER 1, 1993 • NUMBER 3

"Rudy" Premiere to Benefit Center for the Homeless and St. Joseph Valley Club Scholarship

TriStar Pictures' "Rudy," the first film produced with the cooperation of the University of Notre Dame since "Knute Rockne: All American" in 1940, will have its premiere October 5 in South Bend's Morris Civic Auditorium. The premiere will be a benefit sponsored jointly by Notre Dame and the city of South Bend, with the proceeds divided equally between South Bend's Center for the Homeless and the scholarship fund of the Notre Dame Club of St. Joseph Valley.

With Sean Astin in the title role, "Rudy" reunites director David Anspaugh and writer Angelo Pizzo, who created the 1986 hit, "Hoosiers." "Rudy" recounts the experiences of 1976 Notre Dame graduate Daniel E. (Rudy) Ruettiger, a walk-on football player who became a campus legend for his appearance in the last 27 seconds of the final home game of 1975 — a victory over Georgia Tech. A transfer student who overcame numerous obstacles to attend Notre Dame, Ruettiger had spent two years on the football team's scout squad before earning the opportunity to play in the last game of his collegiate career.

The bulk of the film was shot on location at Notre Dame and around South Bend last fall and winter. Rudy's 1975 moment of glory was reenacted for the cameras at halftime of Notre Dame's victory over Boston College on November 7, with 59,075 fans in the role of extras.

Starring with Sean Astin are Ned Beatty, Charles S. Dutton, Lili Taylor and Robert Prosky. The producers are Robert N. Fried and Cary Woods. The executive producer is Lee R. Mayes, the director of photography is Oliver Wood and the production designer is Robb Wilson King. The editor is David Rosenbloom, A.C.E., and the music is by Academy Award winner Jerry Goldsmith. Members of the cast and crew, along with representatives of TriStar Pictures, will be on hand for the premiere. "Rudy" will open in selected cities nationwide on October 13.

Phi Beta Kappa Information

Members of the faculty who are also members of Phi Beta Kappa are invited to affiliate with the Notre Dame Chapter, Epsilon of Indiana. Faculty members currently not in communication with the chapter who are interested in affiliating are asked to contact the secretary of the Notre Dame Chapter, Prof. John Derwent, at the mathematics department. Interested faculty are asked in a note to the secretary to supply the year of their initiation and the name of the college or university where they were initiated.

FACULTY NOTES

Honors

George A. Lopez, professor of government and international studies and faculty fellow in the Kroc Institute, has been named to the board of editors of *The American Journal of Political Science* for a three-year term beginning in October 1993. He has responsibility for recruiting and reviewing articles in international relations.

Tonia Hap Murphy, adjunct instructor in management, was appointed by Governor Evan Bayh to the Indiana Utility Regulatory Commission Nominating Committee for a two-year term.

Activities

Gail Bederman, assistant professor of history, presented the paper "Teaching Our sons to Do What We Have Been Teaching the Savages to Avoid": Race, Manhood and G. Stanley Hall" at the University of Chicago Social History Seminar at the University of Chicago in Chicago, Ill., May 13.

John G. Borkowski, McKenna professor of psychology, gave the talk "Cognitive Readiness and Adolescent Parenting" at Benedictine College in Atchison, Kans., April 14. He gave that talk at the Ralph Smith Retardation Center of the University of Kansas Hospitals in Kansas City, Kans., April 22. He delivered an address titled "Learning Environments and Skill Generalization: How Contexts Facilitate Regulatory Processes and Efficacy Beliefs" in a conference sponsored by the Max Planck Society on Memory Development: State of the Art and Future in Directions at Castle Ringberg, Germany, June 9-12. He presented a paper on "The Role of Motivation in Metacognitive Theory" in a symposium sponsored by the National Research Institute for Pedagogy in Paris, France, June 14. He chaired the summer meetings of the NIH study section on Physical and Rehabilitative Medicine held in Bethesda, Md., June 21.

Jay W. Brandenberger, assistant professional specialist in the Center for Social Concerns, was one of 20 invited participants in the third annual summer institute on *The Good Society* at the Graduate Theological Union in Berkeley, Calif., Aug. 2-6.

Michael Detlefsen, professor of philosophy, gave the invited lecture "Two Models for the Existence Condition in Constructive Mathematics" at the conference Philosophy of Mathematics Today at Ludwig Maximilians University in Munich, Germany, June 2-8. He gave the invited talk "Synthetic Proof" at the XIXth international congress for the History and Philosophy of Science at the University of Zaragoza, Zaragoza, Spain, Aug. 22-29.

Bernard Doering, professor of Romance languages and literatures, delivered an invited lecture "Le Legs américain de

Jacques Maritain" at the Colloque de Cerisy devoted to "Jacques Maritain face à la modernité" at Cerisy-la-Salle, France, July 13-20.

William C. Hamlett, adjunct associate professor of biological sciences, served as guest editor for two special issues of the *Journal of Experimental Zoology* Vol. 266, No. 5, August 1, 1993, and Vol. 266, No. 6, September 1, 1993, "Comparative Gestation and Placentation in Vertebrates." The issues featured 19 papers based on a symposium he organized in conjunction with the 10th international symposium on Morphological Sciences in Toronto, Canada in July 1991.

Lloyd H. Ketchum Jr., associate professor of civil engineering and geological sciences, testified before the Ontwa Township Board on the impact of Septic Systems on Lake Water Quality in Edwardsburg, Mich., Sept. 13.

Prashant V. Kamat, professional specialist in the Radiation Laboratory, presented the paper "Mechanistic Aspects of Sensitization for Environmental Applications of Photocatalysis" at the 24th annual meeting of the Fine Particle Society in Chicago, Ill., Aug. 24-28.

Kwan S. Kim, professor of economics and a faculty fellow in the Kellogg Institute, presented a paper titled "Implications of NAFTA for U.S. - East Asian Trade and Investment Flows" at a conference on Regional Integration at Princeton University in Princeton, N.J., Sept. 3.

George A. Lopez, professor of government and international studies and faculty fellow in the Kroc Institute, served as a staff member at the annual Lilly Endowment Workshop on the Liberal Arts held at Colorado College in Colorado Springs, Colo., June 11-26. Among other duties he taught a two-week seminar in "International Studies and International Education." He served as chair of the Selection Committee for Round XII of the MacArthur Foundation grants in International Peace and Security during meetings held in Chicago, Ill., June 27-30.

Philip Mirowski, Koch professor of economics, gave an invited lecture on "Problems in the Conception(s) of Error in Econometrics" to the Tinbergen Institute at Rotterdam, Holland, Aug. 6. He gave a presentation on "Concepts of Error in the Sciences" to the Malvern Conference on Political Economy in Malvern, England, Aug. 11. He presided over the first meeting of the Veblen Society devoted to the determinants of the mathematicization of economics in 20th-century Japan and the United States at the Newberry Library in Chicago, Ill., Sept. 11.

Kenneth E. Moore, associate professor of anthropology gave the plenary presentation "American Urban Ghettos: Formation and Continuity" at the annual conference of the Institute of History of the University of Warsaw held in Bialystok, Poland, March 9-10. The theme of the conference was "The USA: New Interpretations" and was devel-

FACULTY NOTES

oped in association with the publication *Herbert Clark Hoover: proba nowej interpretacji jego prezydentury* by Dr. Halina Parafianowicz.

Samuel Paolucci, associate professor of aerospace and mechanical engineering, chaired a session on "Heat Transfer in Food Processing" and a panel session on "Current Issues in Thermal Processing of Food Materials" at the 29th national Heat Transfer Conference in Atlanta, Ga., Aug. 8-11.

John A. Poirier, professor of physics, presented "Survey for Stellar Sources Using Identified Single Muons at Sea Level," "A New Candidate for a Long-lived Neutral Particle at VHE/UHE from Stellar Sources?" and "Production and Transmission of a Possible New Long-lived Neutral Particle at VHE/UHE from Stellar Sources" at the 23rd international Cosmic Ray Conference in Calgary, Canada, July 20-29. He gave a workshop on the Study of Cosmic Ray Interactions with New Extensive Air Shower Arrays titled "A New Method to Measure Cosmic Ray Composition Above 100 TeV" at that conference, July 29.

Wolfgang Porod, professor of electrical engineering, served on the advisory committee of the international workshop on Computational Electronics held at the University of Leeds in Leeds, England, Aug., 11-13. He co-authored the following presentations at that conference: "Numerical Method to Obtain the Two-dimensional Electronic States for Open Boundary Scattering Problems" with Henry Harbury, "Boundary Conditions for Quantum Devices with Exposed Surfaces" with Minhan Chen and David J. Kirkner, associate professor of civil engineering and geological sciences, "Resonance/Antiresonance Lineshape for Transmission in Quantum Waveguides with Resonantly-Coupled Cavities" with Zhi-an Shao and Craig S. Lent, associate professor of electrical engineering, and "Quantum Simulation of Several-Particle Systems" with Lent and P. Douglas Tougaw.

Joachim Rosenthal, assistant professor of mathematics, presented the invited colloquium lecture "Systemtheorie und der Schubertkalkuel" at the University of Regensburg, in Regensburg, Germany, July 23. He organized the session "Algebro-Geometric Methods in Systems Theory" and presented the paper "Schubert Calculus and Dynamic Pole Placement" at the international symposium on the Mathematical Theory of Networks and Systems in Regensburg, Germany, Aug. 2-6.

Michael K. Sain, Freimann professor of electrical engineering, was co-author with Cheryl B. Schrader of the paper "On the Relationship between Extended Zeros and Wedderburn-Forney Spaces" which was presented at the 11th symposium on the Mathematical Theory of Networks and Systems in Regensburg, Germany, Aug. 2-6.

Michael A. Signer, Abrams professor of Jewish thought and culture, department of theology, presented "Jewish-Chris-

tian Dialogue: Past, Present, Future" at the Bloch Institute for Christian Clergy to the Indianapolis Hebrew congregation in Indianapolis, Ind., Sept. 8. He presented "The Concept of Repentance: National and Personal Transformations" at Fairmount Temple in Cleveland, Ohio, Sept. 10.

Gregory E. Sterling, assistant professor of theology, served as a respondent for "Non-Retaliation Traditions in Matthew and Luke: A Response to David Dungan" and read the paper "Magister or Maverick: Philo of Alexandria and Egyptian Judaism" at the international meeting of the Studiorum Novi Testamenti Societas held in Chicago, Ill., Aug. 9-12. He served as a respondent for "What Will You Give Me? The Death of Judas in Matthew's Gospel: A Response to Timothy R. Carmody" at the annual meeting of the Catholic Biblical Association in Achtison, Kans., Aug. 14-17.

Dolores W. Tantoco-Stauder, librarian, participated in several workshops at the National Catholic Networks AIDS Ministry Conference in conjunction with Caritas Internationale held at Loyola University in Chicago, Ill., July 22-25. She coordinated lectures on "Our Lady's Compassion Toward AIDS" co-sponsored by Campus Ministry and University Health Services at Notre Dame, Ind., Sept. 15. This is the third year of the Blessed Mother Lecture Series which she organized in 1991 and held on the feasts of Our Lady with speakers from the members of the faculty, administration, staff, alumni, students, retirees and from Michiana.

Yi-Ming Wang, research associate in the Radiation Laboratory, presented the paper "Spectroscopic Study on the Pheophytinization of Chlorophyll a in Spread Monolayers at the Gas-water Interface" co-authored by Larry K. Patterson, faculty fellow in chemistry and assistant director of the Radiation Laboratory, at the 206th ACS national meeting in Chicago, Ill., Aug. 22-27.

Ursula Williams, assistant professional specialist and concurrent lecturer in German and Russian languages and literatures, gave the invited workshop "Maximizing Your Investment in Technology: Using the Sony LLC 9000" at the University of Kansas in Lawrence, Kans., Aug. 21.

Hong-Ming Yin, assistant professor of mathematics, was invited to give a talk titled "A Quasilinear Parabolic Equation Arising From the Motion of Fluid in Soft Tissue" from work done with Bei Hu, assistant professor of mathematics, at the fluid dynamics session of the 14th annual meeting of the Canadian Applied Mathematical Society in York University, Canada, May 30-June 2. He presented the invited lecture "The Profile Near Blowup Time for Solution of the Heat Equation with a Nonlinear Boundary Condition" with work jointly done with Bei Hu at the Symposium of Comparison Methods and Stability Theory at the Fields Institute in Waterloo, Canada, June 3-6. He was invited to present the talk "The Heat Conduction with the Effect of Memory" at the SIAM Minisymposium on Nonlinear Diffusion in Polymers at the SIAM annual meeting in Philadelphia, Pa., July 12-16.

Faculty Senate Journal May 3, 1993

1. **OPENING PRAYER** - The chair Prof. Richard Sheehan called the meeting to order at 7:05 p.m. in the auditorium of the Center for Continuing Education and asked Prof. John Yoder to offer a prayer.
2. **INTRODUCTIONS** - The chair requested all present to introduce themselves indicating their departmental affiliation and their status on the senate.
3. **APPROVAL OF JOURNALS** - Prof. Jean Porter moved the journal of the April 5 meeting be approved, seconded by Prof. Philip Quinn. The senate concurred. Prof. David Burrell moved the journal of the April 27 meeting be approved, seconded by Prof. Paula Higgins. The senate concurred.
4. **CHAIR'S REPORT** - There have been no meetings or responses since the senate's last meeting. Sheehan reported the results of two elections: 1) Library at Large Committee - Prof. Paula Higgins and Prof. Robert Scheidt were elected for the 1993-94 term; and 2) Academic and Faculty Affairs Committee of the Board of Trustees - Prof. Harvey Bender and Prof. Ken Milani were elected for a three-year term from 1993-96. The chair reported on the status of three letters that the senate approved at the last meeting. The first was a cover letter to the members of the Board of Trustees and faculty explaining the results of the faculty pole regarding the issue to delay the release of the Colloquy 2000 final report until the faculty had more time to discuss its contents. This letter will be mailed tomorrow. The second letter was being written by Burrell which will go to all faculty regarding the discussion of the Catholic character of the University recommending such discussion be held at the departmental level. That letter will also be mailed tomorrow. The third letter was sent to the Academic Council regarding the resolution to have each college faculty, Law School faculty, and appropriate councils or representative bodies annually *elect* rather than appoint members to their various elections committees.

The chair summarized the accomplishments of the senate this year. He stated that the senate: 1) has met the letter and the spirit of the "April Accord;" 2) offered input into the Colloquy process; 3) has spent a substantial amount of time discussing the Catholic character of the institution and how this related to governance; 4) continued to examine the procedures of the senate; and 5) reviewed faculty benefits and had two discussions on PPOs which provided the senate an opportunity to give input before health care decisions were made. Sheehan identified two failures. The senate was: 1) less successful in maintaining a dialogue with the administration, especially with one person, vice president Patricia O'Hara; and 2) not as proactive as the chair would have liked it to have been.

5. STANDING COMMITTEE REPORTS

Benefits - The chair Prof. John Affleck-Graves updated the senate on the costs of the PPO in comparison with current coverage options. The chair contacted director of human resources Roger Mullins last week about the senate's concern regarding the differential quality of services provided by Memorial Hospital and Saint Joseph's Medical Center. Mullins stated that both hospitals were accredited by the Joint Commission on Accreditation of Hospitals; Memorial for one year and Saint Joseph's Medical Center for three years (three years being the longest possible term to be accredited). Affleck-Graves asked for input from the senate and faculty for ideas about other ways to evaluate the differential quality of services provided by each hospital. The chair stated that the problem with the new system was that there are a lot of variables that go into it. You need to know the number of visits to a physician a person has per year, the cost per visit, the number of prescriptions per year, cost of the prescriptions and other medical expenses. The chair did obtain from human resources the average account on campus. The number of physicians visits per year for active faculty was three to four and retirees it was six to eight. The average number of prescriptions per year was 10 for active faculty and 12 for retirees. The average number of admissions to some medical facility was 7 percent for active faculty and 10 percent for retirees. The chair then passed out charts (attached to journal), one chart based upon five office visits per year at \$35 per visit and \$15 per prescription, and another chart based on 20 office visits at \$35 per visit and \$15 per prescription. The major point of these charts was that the PPO-in network and out of network, and current coverage options were similar in cost unless a person had excessively high medical expenses in a given year. If this occurred, the PPO out of network would be much more expensive. Sheehan asked if the cost for the insurance itself was included in the chart and Affleck-Graves indicated it was not included. Prof. Mario Borelli asked if the ND Flex Plan would remain the same and the chair indicated it would. Sheehan asked if the University stayed with its current plan would there be an increase of 10 percent and if the University went with the PPO would there be no increase to the faculty or staff. Affleck-Graves stated that was the case. Prof. Donald Sporleder asked how much the University would save changing to the PPO and the chair indicated he thought it would be around 50 percent. This figure was based on the assumption that only 25 percent of the people went out of network and there was only a 1 percent increase in utilization. One reason the administration was not willing to pass on more savings was that at many of the other universities that have changed to a PPO, more people are using it because it is cheaper. Prof. Paul Conway stated that by changing to the PPO the University would save approximately \$1 million but was not passing that savings on to the faculty and staff. Affleck-Graves stated that was true, yet the University assumes the risk if the expenses go over the million dollars. Conway stated that the University was

protected by insurance if the expenses go over 125 percent. The chair was encouraged to continue working with Mullins on this issue over the summer.

Administration - The chair Clark Power reported that he did check with the various college councils concerning the discussion of the "April Accord." All indicated that they had or will have discussed the accord by fall 1993. The chair also stated that all councils reported being more active this year. He stated he would have a written report of his findings that he would give next year's committee.

Academic Affairs and Student Affairs had no reports.

6. **OLD BUSINESS** - Prof. James Collins reported on the history of his ad hoc committee on University hiring policies (M. Borelli, J. Collins, P. Higgins, G. Lopez, J. Powers, R. Sheehan and J. Tidmarsh) and its charge. Several senators had reported instances of substantial delays; that it often took the administration several weeks to offer positions to non-Catholic candidates while Catholic candidates received offers within a matter of days. The ad hoc committee was formed to gather information to ascertain whether these time lags did indeed occur, how widespread they might be, and if they did occur, what kind of impact they were having on hiring efforts. The committee found that people reported such incidences when talking off the record, but would not make formal comments. The main obstacle the committee encountered was the issue of confidentiality. As a result, the committee decided to develop a questionnaire that was sent to all department chairs (a copy of the questionnaire and results is attached). Collins moved, seconded by M. Borelli, that the senate approve the following resolution.

WHEREAS there is serious reason to believe that the preferential treatment given to Catholic candidates by the Administration works to the detriment of non-Catholic candidates:

WHEREAS there are profound and widespread reservations among the faculty about the wisdom of such a policy and its impact on the academic quality of the University:

BE IT RESOLVED:

That the Faculty Senate express its deep concern over the possibility that the Administration is already attempting to ensure the numerical predominance of Catholics and urge that if such a policy does in fact currently exist, it be openly stated and subject to review and debate by the faculty of the University before continuing its implementation.

Prof. Frank Connolly stated that the results supported the impression that many already held in that the College of

Science was untouched but Arts and Letters was much more involved. Prof. David O'Connor spoke in support of the resolution. Connolly suggested a friendly amendment that in the first "WHEREAS" the wording be changed to "works to the detriment of the University's academic advancement:" Collins accepted the friendly amendment. Prof. Jeffery Kantor asked if this issue was only a problem in one college. M. Borelli stated that he thought it was a problem in all of the colleges. Kantor stated that, based upon the data, the problem was with one college and not across colleges, and that fact should be included in the resolution. Prof. Joseph Powers stated that the data indicated that approximately 50 percent of those responding to the questionnaire did indicate there was a problem. Prof. Stephen Fallon supported Connolly's friendly amendment. Sheehan stated that Father Malloy and Provost Timothy O'Meara have stated that they did not delay non-Catholic appointments. Malloy and O'Meara also stated that 30 percent of the new hires for next year were Catholics which was an all time low.

Porter stated that there were two points to be made by the resolution. First, there was good reason to believe that delaying the appointment of non-Catholic candidates was in fact a policy of the administration. The second point was that if this was occurring, then there was widespread concern which called for an open debate. So even though the two whereas parts converge on the same area, they did make two distinct points. Fallon suggested that the second "Whereas" statement end with the word policy. Prof. Charles Parnell stated that the reservation was about the wisdom not the impact so the second part of the second "Whereas" clause should be dropped. Quinn expressed reservation about the main body of the resolution because the issue seems to be the disparity in hiring procedures among colleges rather than the predominance of Catholics at the University. In the last part of the resolution the reference "to ensure the numerical predominance of Catholics" was not appropriate nor the issue. The differential delays was the issue. Powers also commented that the results did not address the predominance issue. O'Connor suggested that the language referring to the predominance of Catholics be taken out and reference to the question asked be inserted to be "That the Faculty Senate express its deep concern over the possibility that the Administration takes longer to approve recommendations to hire non-Catholics than Catholic candidates and urge that if such a policy does in fact currently exist, it be openly stated and subject to review and debate by the faculty of the University before continuing its implementation." Collins accepted this friendly amendment. The resolution now reads:

WHEREAS there is serious reason to believe that the preferential treatment given to Catholic candidates by the Administration works to the detriment of the University's academic advancement:

DOCUMENTATION

WHEREAS there are profound and widespread reservations among the faculty about the wisdom of such a policy:

BE IT RESOLVED:

That the Faculty Senate express its deep concern over the possibility that the Administration takes longer to approve recommendations to hire non-Catholic than Catholic candidates and urge that if such a policy does in fact currently exist, it be openly stated and subject to review and debate by the faculty of the University before continuing its implementation.

Collins called for the question, seconded by Quinn. Motion passed by a voice vote. The resolution passed by a voice vote.

7. NEW BUSINESS - Election of senate officers and committee chairs.

Officers

Chair: Detlefsen and Sheehan were nominated and Sheehan was elected.

Vice Chair: M. Borelli, Detlefsen and Sporleder were nominated. Detlefsen and Borelli withdrew their names and Sporleder was elected by acclamation.

Co-Secretary: Cashore and Lombardo were nominated and elected by acclamation.

Treasurer: Conway and Borelli were nominated. Conway was elected.

Committee Chairs

Academic Affairs: Burrell (fall semester), S. Jordan (spring semester), and Porter were nominated. Porter withdrew her name. Burrell and Jordan were elected by acclamation.

Administration: Connolly and Higgins were nominated. Higgins was elected.

Benefits: Affleck-Graves was nominated and elected by acclamation.

Student Affairs: Kantor and Collins were nominated and elected by acclamation.

Quinn moved to adjourn, seconded by Porter. The senate concurred and the meeting adjourned at 8:25 p.m.

Respectfully submitted,

Willis E. Bartlett
Co-Secretary

Present: Affleck-Graves, Bartlett, Bender, Borelli, A., Borelli, M., Burrell, Cashore, Collins, Connolly, Conway, Detlefsen, Eagan, Fallon, Higgins, Jordan, S., Kantor, Leighton, Litzinger, Lombardo, Meyerson, O'Brien, O'Connor, Parnell Porter, Power, Powers, Quinn, Ruccio, Sauer, Sheehan, Sporleder, Stevenson, Tidmarsh, Weithman, Yoder

Absent: Bruns, Chang, Garg, Goetz, Hayes, Herro, Jenkins, Jordan, M., Lopez, Martin, McDonald, Miller, Selling, Serianni, Tageson, Vecchio

Excused: Borkowski, Vasta

(Due to technical difficulties, the names of five new senators in attendance were not included)

Attachment

TO: Members of the Faculty Senate

FROM: Ad Hoc Committee on University Hiring Policies
(M. Borelli, J. Collins, P. Higgins, G. Lopez, J. Powers, R. Sheehan, J. Tidmarsh)

DATE: April 28, 1993

Our Committee was charged with a difficult task—to determine whether there is sufficient reason to believe that there is a disparity in the way the Administration is acting on departmental recommendations to offer positions to Catholic and non-Catholic candidates. Several senators had reported instances of substantial delays, that it often took the administration several weeks to offer positions to non-Catholic candidates while Catholic candidates received offers within a matter of days. It was decided that the Senate needed more than anecdotal evidence before proceeding any further so it was our responsibility to ascertain whether these time-lags did indeed occur, how widespread they might be, and, if they did occur, what kind of impact they were having on hiring efforts.

The main obstacle in gathering the necessary information was the issue of confidentiality. The committee decided that the best course of action was to formulate a questionnaire that would be sent to department chairs, asking them to respond to questions that we hoped would give us the information we needed to determine whether there was sufficient cause for concern but still respect the confidential nature of specific details. The attached questionnaire is the one we sent to department chairs. We have included a numerical breakdown, by college, of the responses to question #1 (the responses to question #2 were not as easy to quantify since some chairs provided written explanations rather than circling yes or no). We have also included a provisional resolution which we hope to discuss at the May 3rd meeting of the Senate. We felt the responses demonstrated sufficient cause for concern, enough to justify at least a request for clarification on this matter since virtually half of the departments responding said there was a significant disparity and better than half of the chairs in the College of Arts and Letters felt this disparity had a detrimental effect on hiring efforts, academic standards, and departmental morale.

DOCUMENTATION

TO: Departmental Chairs

FROM: Faculty Senate Ad Hoc Committee on University Hiring Policies (M. Borelli, J. Collins, P. Higgins, G. Lopez, J. Porter, J. Powers, R. Sheehan, J. Tidmarsh)

DATE: April 12, 1993

The Faculty Senate has recently discussed in detail Recommendation #1 of the Committee on Academic Life for the Colloquy which reads:

All who participate in hiring faculty must be cognizant of and responsive to the need for dedicated and committed Catholics to predominate in number among the faculty.

In those discussions, many senators contended that Recommendation #1 has already been implemented by the administration as a *de facto* hiring policy; others did not perceive this to be the case. In the April 5, 1993, Senate meeting an ad hoc committee was formed to gather information on this matter. Charged with that task, we ask that you respond to the following questions:

1) Has it been your experience that the administration takes longer to approve your department's recommendation to hire a non-Catholic candidate than a Catholic candidate?

2) If the answer to question 1 is yes, has the disparity had an effect on the success of your hiring efforts?

yes no
on departmental morale?

yes no
on the quality of your academic program?
yes no

3) Is there anything else concerning your recruitment of Catholic and non-Catholic candidates about which the Faculty Senate should know?

Please feel free to elaborate on the above and provide whatever specifics you feel are relevant. We would appreciate hearing anything you have to say in regard to these issues.

College _____
Name and department (optional) _____

Given the short time left in the semester, we ask you to respond as soon as possible and no later than April 23, 1993. Please address your responses to the chair of the committee.

Jim Collins
216 DECIO
631-7161

Responses to Question #1 (Has it been your experience that the administration takes longer to approve your recommendation to hire a non-Catholic than a Catholic candidate?)

11 YES responses

13 NO Responses

11 Arts and Letters

5 Arts and Letters

2 Business

2 Engineering

1 Law School

1 Physical Education

2 Science

9 of these 11 Yes responses said that the disparity had a negative impact on hiring efforts, departmental morale, and/or the quality of their academic program.

Provisional Resolution

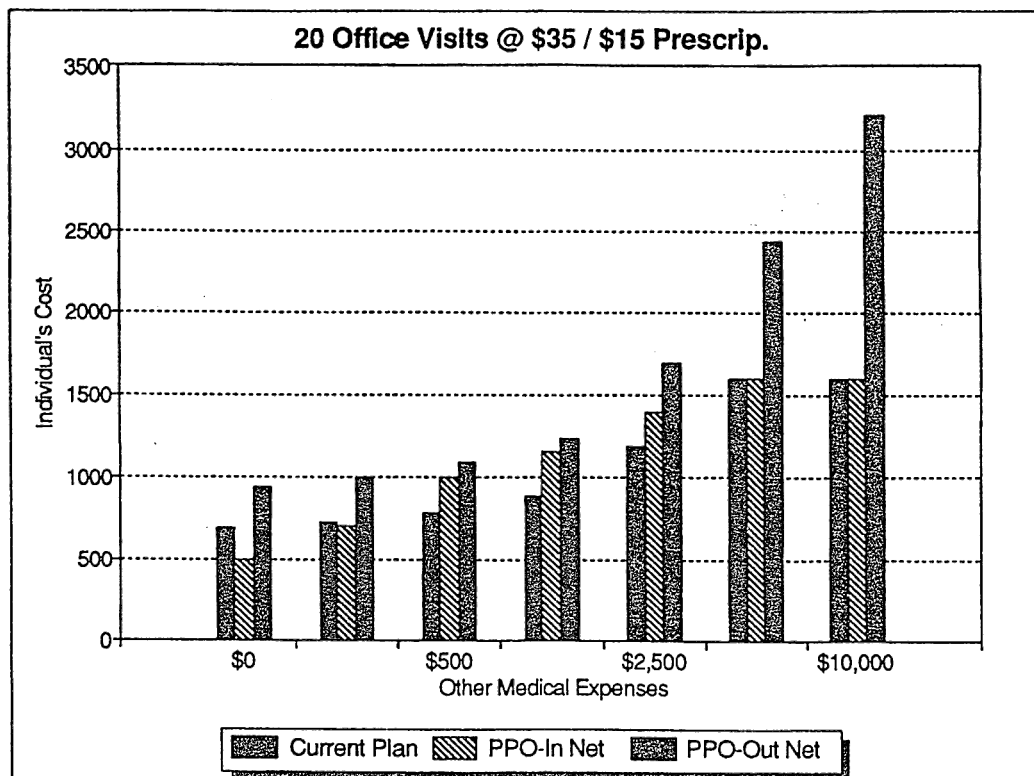
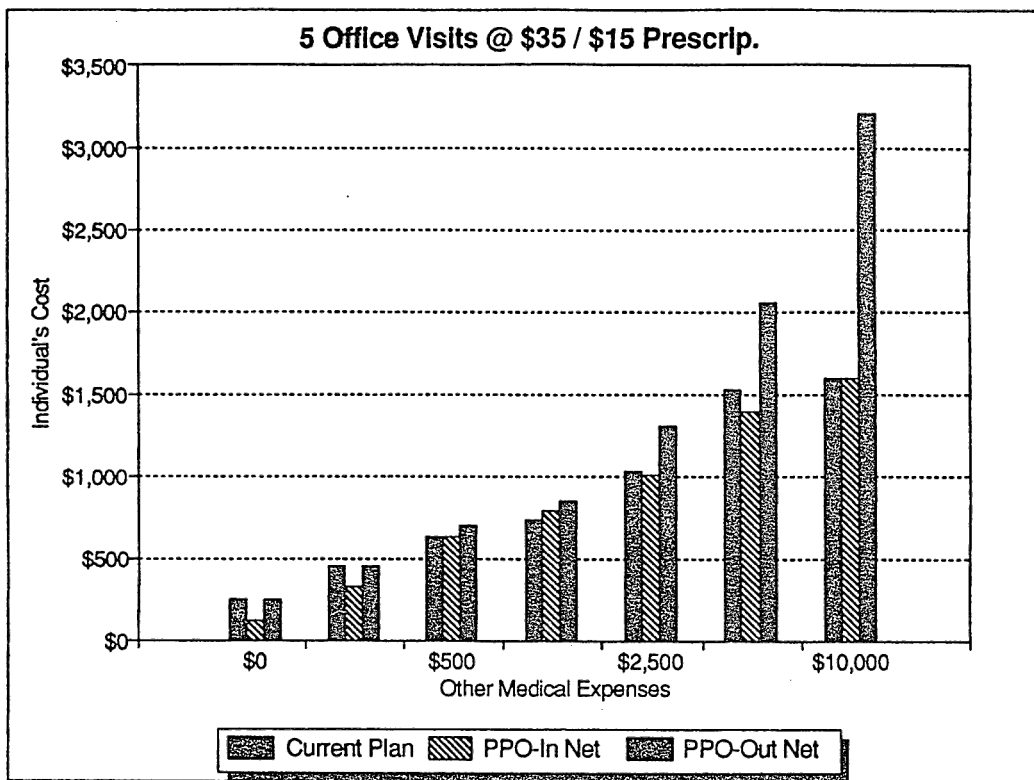
WHEREAS there is serious reason to believe that the preferential treatment given to Catholic candidates by the Administration works to the detriment of non-Catholic candidates.

WHEREAS there are profound and widespread reservations among the faculty about the wisdom of such a policy and its impact on the academic quality of the university:

BE IT RESOLVED:

That the Faculty Senate express its deep concern over the possibility that the Administration is already attempting to ensure the numerical predominance of Catholics and urge that if such a policy does in fact currently exist, it be openly stated and subject to review and debate by the faculty of the University before continuing its implementation.

DOCUMENTATION



DOCUMENTATION

University Libraries' Hours for Midsemester and Fall Break October 22-31, 1993

HESBURGH LIBRARY

	BUILDING	PUBLIC SERVICES
Saturday	9 a.m. - 2 a.m.	9 a.m. - 5 p.m.
Sunday	7:30 a.m. - 2 a.m.	1 p.m. - 5 p.m.
Monday through Thursday	7:30 a.m. - 2 a.m.	8 a.m. - 10 p.m.
Friday	7:30 a.m. - 2 a.m.	8 a.m. - 5 p.m.

Sunday, October 31, all libraries return to regular schedule.

Branch hours vary, please call for specific hours:

Architecture	631-6654
Chemistry/Physics	631-7203
Engineering	631-6665
Life Science	631-7209
Mathematics	631-7278

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CHANGES AND UPDATES

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

American Studies

Schmuhl, Robert P.

- R.P. Schmuhl. 1993. Clinton May Have to Sacrifice a Little Change for Consistency. *The Philadelphia Inquirer* 327(119):27, Section A.
- R.P. Schmuhl. 1993. Melting Pot Image is Wrong for U.S. *The Philadelphia Inquirer* 328(4):5, Section D.
- R.P. Schmuhl. 1993. Review of Writing Illinois: The Prairie, Lincoln and Chicago, by J. Hurt. *Illinois Historical Journal* 86(2):120-121.
- R.P. Schmuhl. 1993. The Changing of the Guard. Pages 284-290 in, R.C. Phalen, ed., *In Our Time: Rediscovering America 1940-1990s*. Diamond Communications, Inc., South Bend, Indiana.

Anthropology

DaMatta, Roberto A.

- R.A. DaMatta. 1993. Conta de Mentiroso: Sete Ensaios de Antropologia Brasileira. Editora Rocco, Rio de Janeiro, Brazil. 209 pp.
- R.A. DaMatta. 1993. Reflexoes sobre o Publico e o Privado no Brasil. *Cadernos de Ciencias Sociais, Univ. Federal de Minas Gerais* 3(3):51-59.
- R.A. DaMatta. 1993. The Third Bank of the River. *Courier of UNESCO Special Issue on What if Modern?* (July/August):49-53.

Communication and Theatre

Pilkinton, Mark C.

- M.C. Pilkinton. 1993. Simultaneous Staging and the Cornish Cycle. *Essays in Theatre/Études Théâtrales* 11(2):167-171.

English

Fredman, Stephen A.

- S.A. Fredman. 1993. The Grounding of American Poetry: Charles Olson and the Emersonian Tradition. Cambridge University Press, New York, New York. xii + 168 pp.

Walton, James H.

- J.H. Walton. 1993. "a chiliad of perihelygangs." *James Joyce Quarterly* 30(Spring):459-465.

Government and International Studies

Mainwaring, Scott P.

- S.P. Mainwaring. 1993. Democracia Presidencialista Multipartidaria: O Caso do Brasil. *Lua Nova* 28/29:21-74.
- Scully, Rev. Timothy R., CSC
- Rev. T.R. Scully and J.S. Valenzuela. 1993. From Democracy to Democracy: Continuities and Changes of Electoral Choices and the Party System in Chile. *Estudios Públicos* 51:195-228.

Program of Liberal Studies

Weinfield, Henry

- H. Weinfield. 1993. Funereal Toast (translation from Mallarmé). *Talisman* 10(Spring):130-131.
- H. Weinfield. 1993. Lacrimae Rerum: Why Dante Weeps in Purgatorio 30. *Hellas* 4:1(Spring/Summer):11-18.
- H. Weinfield. 1993. Rakosi's Experiences in Parnassus: A Note on Objectivist Poetics. Pages 209-213 in, M. Heller, ed., *Carl Rakosi: Man and Poet*. The University of Maine, Orono, Maine.
- H. Weinfield. 1993. The Mysterious Gift of Seeing with the Eyes': Mallarmé's Vision in Toast Funèbre. *Talisman* 10(Spring):132-137.

Theology

Cunningham, Lawrence S.

- L.S. Cunningham. 1993. Foreword. Pages 9-11 in, *Being Catholic: Commonweal from the Seventies to the Nineties*. Loyola University Press, Chicago, Illinois.
- L.S. Cunningham. 1993. Religious Booknotes: Adam's Sin, Mysticism's Fall and More. *Commonweal* 120(05/07/93):28-30.
- L.S. Cunningham. 1993. Religious Booknotes: Missionaries, Martyrs and Discontents. *Commonweal* 120(06/04/93):27-29.
- L.S. Cunningham. 1993. Why People Still Put Their Body and Soul into Prayer. *U.S. Catholic* (July):6-13.
- Sterling, Gregory E.
- G.E. Sterling. 1993. Review of Judas Maccabaeus: The Jewish Struggle Against the Seleucids, by B. Bar-Kochva. Pages 94-97 in, E.J. Epp, ed., *Critical Review of Books in Religion* 1992. Scholars Press, Atlanta, Georgia.
- G.E. Sterling. 1993. Review of Presbyteron Kreitton: Der Altersbeweis der jüdischen und christlichen Apologeten und seine Vorgeschichte, by P. Pilhofer. *WUNT* 2/39. Tübingen: Mohr-Siebeck, 1990. Pages 303-306 in, E.J. Epp, ed., *Critical Review of Books in Religion* 1992. Scholars Press, Atlanta, Georgia.

THE GRADUATE SCHOOL OFFICE OF RESEARCH

COLLEGE OF SCIENCE

Biological Sciences

- Craig, George B., Jr.
J.R. Linley and G.B. Craig, Jr. 1993. The Egg of *Aedes hendersoni* and a Comparison of Its Structure with the Egg of *Aedes triseriatus* (Diptera: Culicidae). *Mosquito Systematics* 25(2):65-76.
- Kulpa, Charles F., Jr.
R. Boopathy, M. Wilson and C.F. Kulpa, Jr. 1993. Anaerobic Removal of 2,4,6-Trinitrotoluene (TNT) under Different Electron Accepting Conditions: Laboratory Study. *Water Environment Research* 65(3):271-275.
- McIntosh, Robert P.
R.P. McIntosh. 1993. The Continuum Continued: John T. Curtis' Influence on Ecology. Pages 95-122 in, J.S. Fralish, R.P. McIntosh and O.L. Loucks, eds., *Fifty Years of Wisconsin Plant Ecology*. The Wisconsin Academy of Sciences, Arts and Letters, Madison, Wisconsin.
- R.P. McIntosh. 1992. Competition: Historical Perspectives. E.F. Keller and E.A. Lloyd, eds., *Keywords in Evolutionary Biology*. Harvard University Press, Cambridge, Massachusetts.
- R.P. McIntosh. 1992. Whither Ecology? *The Quarterly Review of Biology* 67(4):495-498.

Chemistry and Biochemistry

- Scheidt, W. Robert
M.O. Senge, C.W. Eigenbrot, T.D. Brennan, J. Shusta, W.R. Scheidt and K.M. Smith. 1993. Aggregation Properties of Nitroporphyrins: Comparisons between Solid-State and Solution Structures. *Inorganic Chemistry* 32:3134-3140.
- Thomas, J. Kerry
K.-K. Iu, X. Liu and J.K. Thomas. 1993. Spectroscopic Studies of Electron Trapping by Sodium Cationic Clusters in Zeolites. *Journal of Physical Chemistry* 97:8165-8170.

Physics

- Baumbaugh, Barry W.
B. Abbott, R. Davies, D. Koltick, R. McIlwain, C.J. Schmitz, E.I. Shibata, M. Atac, B.W. Baumbaugh, J. Jaques, R. Kehoe, J. Marchant, R.C. Ruchti, J. Warchol, M.R. Wayne, M. Binkley, J. Elias, H. Goldberg, S. Margulies, J. Solomon, T. Armstrong, R. Lewis and G. Smith. 1993. Test Beam Results using Scintillating Fibers Read Out by a Multinode Phototube and Visible Light Photon Counters. *Nuclear Instruments and Methods in Physics Research A* 327:319-327.

- M. Atac, J. Park, D. Cline, D. Chrisman, M.D. Petroff, F. Bird, H. Fenker, K. Morgan, J. Thomas, B.W. Baumbaugh, M. Kelly, J. Warchol, R.C. Ruchti, B. Abbott, R. Davies and D. Koltick. 1992. Tracking with Scintillating Fibers and Visible Light Photon Counters. *Nuclear Instruments and Methods in Physics Research A* 320:155-160.
- Bishop, James M.
B.B. Brabson, et al., Notre Dame (T. Adams, J.M. Bishop, D.R. Cady, N.M. Cason, J.M. LoSecco, J.J. Manak, W.D. Shephard, D.L. Stienike, S.A. Taeger and D.R. Thompson). 1993. A Study of Two Prototype Lead Glass Electromagnetic Calorimeters. *Nuclear Instruments and Methods A332*:419-443.
- T. Alexopoulos, et al., Notre Dame (J.M. Bishop, N.N. Biswas, V.P. Kenney, J.M. LoSecco and J. Warchol). 1993. Mass-Identified Particle Production in Proton-Antiproton Collisions at $\sqrt{s} = 300, 540, 1000$, and 1800 GeV. *Physical Review D* 48(3):984-997.
- P.L. Frabetti, et al., Notre Dame (J.M. Bishop, N.M. Cason, C.J. Kennedy, G.N. Kim, T.F. Lin, D.L. Puseljic, R.C. Ruchti, W.D. Shephard, J.A. Swiatek and Z.Y. Wu). 1993. Precise Measurement of the D_s^+ Lifetime. *Physical Review Letters* 71:827-830.
- Biswas, Nripen N.
See under Bishop, James M. 1993. *Physical Review D* 48(3):984-997.
- Blackstead, Howard A.
H.A. Blackstead, D.G. Keiffer, M.D. Lan and J.Z. Liu. 1993. Field Induced Resistivity in Crystalline $YBa_2Cu_3O_{7-\delta}$. *Superlattices and Microstructures* 13(3):279-284.
- Cady, Donald R.
See under Bishop, James M. 1993. *Nuclear Instruments and Methods A332*:419-443.
- Cason, Neal M.
See under Bishop, James M. 1993. *Nuclear Instruments and Methods A332*:419-443.
- See under Bishop, James M. 1993. *Physical Review Letters* 71:827-830.
- Kenney, V. Paul
See under Bishop, James M. 1993. *Physical Review D* 48(3):984-997.
- LoSecco, John M.
R. Becker-Szendy, R.S. Miller, J.M. LoSecco, et al. 1993. A Search for Astrophysical Sources of Low-Energy Neutrinos using the IMB Detector. Pages 476-479 in, D.A. Leahy, ed., *Proceedings of the 23rd International Cosmic Ray Conference*. University of Calgary, Calgary, Alberta, Canada.
- R. Becker-Szendy, G. McGrath, J.M. LoSecco, et al. 1993. A Search for Neutrino Oscillations in IMB. Pages 484-486 in, D.A. Leahy, ed., *Proceedings of the 23rd International Cosmic Ray Conference*. University of Calgary, Calgary, Alberta, Canada.

THE GRADUATE SCHOOL OFFICE OF RESEARCH

- R. Becker-Szendy, P.G. Halverson, J.M. LoSecco, et al. 1993. Magnetic Monopole Flux Limits from the IMB Proton Decay Detector. Pages 658-660 in, D.A. Leahy, ed., Proceedings of the 23rd International Cosmic Ray Conference. University of Calgary, Calgary, Alberta, Canada.
- R. Becker-Szendy, C. McGrew, J.M. LoSecco, et al. 1993. Recent Limits on Baryon Non-Conservation from the IMB-3 Experiment. Pages 589-592 in, D.A. Leahy, ed., Proceedings of the 23rd International Cosmic Ray Conference. University of Calgary, Calgary, Alberta, Canada.
- R. Becker-Szendy, G. McGrath, J.M. LoSecco, et al. 1993. Search for Downward-Going Muon Point Sources with IMB. Page 449 in, D.A. Leahy, ed., Proceedings of the 23rd International Cosmic Ray Conference. University of Calgary, Calgary, Alberta, Canada.
- See under Bishop, James M. 1993. *Nuclear Instruments and Methods A332:419-443*.
- See under Bishop, James M. 1993. *Physical Review D* 48(3):984-997.
- Poirier, John A.
J.A. Poirier. 1993. A New Candidate for a Long-Lived Neutral Particle at VHE/UHE from Stellar Sources. Pages 633-636 in, Proceedings of the 23rd International Cosmic Ray Conference, Volume 4, Calgary, Alberta, Canada.
- A. Trzuppek, Y. Lu and J.A. Poirier. 1993. Is There a Moon Shadow in Single Muon Data? Pages 422-425 in, Proceedings of the 23rd International Cosmic Ray Conference, Volume 4, Calgary, Alberta, Canada.
- J.A. Poirier. 1993. Production and Transmission of a Possible New Long-Lived Neutral Particle at VHE/UHE from Stellar Sources. Pages 637-640 in, Proceedings of the 23rd International Cosmic Ray Conference, Volume 4, Calgary, Alberta, Canada.
- J.A. Poirier, Y. Lu and A. Trzuppek. 1993. Survey for Stellar Sources using Identified Single Muons at Sea Level. Pages 454-457 in, Proceedings of the 23rd International Cosmic Ray Conference, Volume 4, Calgary, Alberta, Canada.
- A. Trzuppek, Y. Lu and J.A. Poirier. 1993. The Energy Scale of Extensive Air Showers. Pages 359-362 in, Proceedings of the 23rd International Cosmic Ray Conference, Volume 4, Calgary, Alberta, Canada.
- Rettig, Terrence W.
See under Tegler, Stephen C. 1993. *Astrophysical Journal* 411:260-265.
- Ruchti, Randal C.
See under Baumbaugh, Barry W. 1993. *Nuclear Instruments and Methods in Physics Research A* 327:319-327.
- See under Bishop, James M. 1993. *Physical Review Letters* 71:827-830.
- See under Baumbaugh, Barry W. 1992. *Nuclear Instruments and Methods in Physics Research A* 320:155-160.
- Shephard, William D.
See under Bishop, James M. 1993. *Nuclear Instruments and Methods A332:419-443*.
- See under Bishop, James M. 1993. *Physical Review Letters* 71:827-830.
- Tegler, Stephen C.
S.C. Tegler, D.A. Weintraub, L.J. Allamandola, S.A. Sandford, T.W. Rettig and H. Campins. 1993. Detection of the 2165 Inverse Centimeter (4.619 Micron) XCN Band in the Spectrum of L1551 IRS 5. *Astrophysical Journal* 411:260-265.
- Warchol, Jadwiga
See under Baumbaugh, Barry W. 1993. *Nuclear Instruments and Methods in Physics Research A* 327-319-327.
- See under Bishop, James M. 1993. *Physical Review D* 48(3):984-997.
- See under Baumbaugh, Barry W. 1992. *Nuclear Instruments and Methods in Physics Research A* 320:155-160.
- Wayne, Mitchell R.
See under Baumbaugh, Barry W. 1993. *Nuclear Instruments and Methods in Physics Research A* 327:319-327.

COLLEGE OF ENGINEERING

Aerospace and Mechanical Engineering

- Gad-el-Hak, Mohamed
M. Gad-el-Hak. 1993. Review of The Universal Man: Theodore von Kármán's Life in Aeronautics, by M.H. Gorn. *Applied Mechanics Reviews* 46(7):B108-B109.
- M. Gad-el-Hak. 1993. Splendor of Fluids in Motion. Pages 27-87 in, M. Coutanceau and J. Coutanceau, eds., *Visualization et Traitement d'Images en Mécanique des Fluides*. Université de Poitiers, Poitiers, France.
- Paolucci, Samuel
S. Paolucci. 1993. Direct Numerical Simulation of the Differentially Heated Cavity. Pages 211-234 in, R.A.W.M. Henkes and C.J. Hoogendoorn, eds., *Turbulent Natural Convection in Enclosures*. EETI, Paris, France.
- M.V. Karwe, T.L. Bergman and S. Paolucci. 1993. *Heat Transfer in Food Processing*. ASME, New York, New York.

Computer Science and Engineering

- Chen, Ziyi Danny
M.J. Atallah and Z.D. Chen. 1993. Computing the All-Pairs Longest Chains in the Plane. Pages 1-13 in, An invited paper in the Proceedings of the Third Workshop on Algorithms and Data Structures, Montreal, Canada.
- M.J. Atallah and Z.D. Chen. 1993. On Parallel Rectilinear Obstacle-Avoiding Paths. Pages 210-215 in, Proceedings of the Fifth Canadian Conference on Computational Geometry.

THE GRADUATE SCHOOL OFFICE OF RESEARCH

Sha, Edwin H.-M.

- L.-F. Chao and E. H.-M. Sha. 1993. Efficient Retiming and Unfolding. Pages 1421-1424 in, *Proceedings of the 1993 IEEE International Conference on Acoustic, Speech and Signal Processing*, Minneapolis, Minnesota.
- E. H.-M. Sha and K. Steiglitz. 1993. Maintaining Bipartite Matchings in the Presence of Failures. *Networks Journal* 23:459-471.
- E. H.-M. Sha and K. Steiglitz. 1993. Maintaining Bipartite Matchings in the Presence of Failures. Pages 57-64 in, *Proceedings of the Seventh International Parallel Processing Symposium*, Newport Beach, California.
- L.-F. Chao and E. H.-M. Sha. 1993. Rate-Optimal Static Scheduling for DSP Data-Flow Programs. Pages 80-84 in, *Proceedings of Third Great Lakes Symposium on VLSI*, Kalamazoo, Michigan.
- L.-F. Chao and E. H.-M. Sha. 1993. Static Scheduling of Uniform Nested Loops. Pages 254-258 in, *Proceedings of the Seventh International Parallel Processing Symposium*, Newport Beach, California.
- L.-F. Chao, A. LaPaugh and E. H.-M. Sha. 1992. Scheduling Cyclic Data-Flow Graphs by Retiming with Resource Constraints. Pages 111-134 in, *Proceedings ACM/IEEE Sixth International Workshop on High-Level Synthesis*, Dana Point, California.

Electrical Engineering

Alcock, Charles B.

- C.B. Alcock, B. Li, J.W. Fergus and L. Wang. 1992. New Electrochemical Sensors for Oxygen Determination. *Solid State Ionics* 53-56:39-43.
- C.B. Alcock. 1992. Solid State Sensors and Process Control. *Solid State Ionics* 53-56:3-17.

Bernstein, Gary H.

- See under Lent, Craig S. 1993. *Nanotechnology* 4:49-57.

Das, Biswajit

- B. Das, S. Subramaniam and M.R. Melloch. 1993. Effects of Electron-Beam-Induced Damage on Leakage Currents in Back-Gated GaAs/AlGaAs Devices. *Semiconductor Science and Technology* 8:1347-1351.
- B. Das, S. Subramaniam, M.R. Melloch and D.C. Miller. 1993. Single-Particle and Transport Scattering Times in a Back-Gated GaAs/Al_xGa_{1-x}As Modulation-Doped Heterostructure. *Physical Review B* 47(15):9650-9653.

Huang, Yih-Fang

- V.C. Soon, Y.F. Huang and R.W. Liu. 1993. A Robust Method for Wideband Signal Separation. Pages 703-706 in, *Proceedings 1993 IEEE International Symposium on Circuits and Systems*.
- S.C. Huang and Y.F. Huang. 1993. A Tree-Structured Polytopal Vector Quantizer for Real-Time Image Coding. Page 276 in, *1993 IEEE International Symposium on Information Theory*.
- W.J. Zeng, Y.F. Huang and S.C. Huang. 1993. Greedy Tree Growing Algorithms for Designing Variable Rate Vector Quantizers. *Proceedings of the 1993 IEEE Inter-*

national Conference on Acoustics, Speech and Signal Processing 5:594-597.

- S.C. Huang and Y.F. Huang. 1993. Principal Component Vector Quantization. *Journal of Visual Communication and Image Representation* 4:112-120.
- A.K. Rao and Y.F. Huang. 1993. Some Applications of Bounded Error Parameter Estimation in Image Compression. Pages 806-809 in, *Proceedings of 1993 IEEE International Symposium on Circuits and Systems*.
- A.K. Rao and Y.F. Huang. 1993. Tracking Characteristics of an OBE Parameter Estimation Algorithm. *IEEE Transactions Signal Processing* 41(3):1140-1148.
- A.K. Rao and Y.F. Huang. 1992. Analysis of Finite Precision Effects on a Recursive Set Membership Parameter Estimation Algorithm. *IEEE Transactions Signal Processing* 40(12):3081-3085.

Lent, Craig S.

- C.S. Lent. 1993. Can a University be Both Great and Christian? *New Oxford Review* 60(7):10-14.
- C.S. Lent, P.D. Tougaw, W. Porod and G.H. Bernstein. 1993. Quantum Cellular Automata. *Nanotechnology* 4:49-57.
- M. Leng and C.S. Lent. 1993. Recovery of Quantized Ballistic Conductance. *Physical Review Letters* 71:137-140.
- Liu, Ruey-Wen
- See under Huang, Yih-Fang. 1993. Pages 703-706 in, *Proceedings 1993 IEEE International Symposium on Circuits and Systems*.
- Michel, Anthony N.
- A.N. Michel and C.J. Herget. 1993. *Applied Algebra and Functional Analysis*. Dover Publications, New York, New York.
- Porod, Wolfgang
- See under Lent, Craig S. 1993. *Nanotechnology* 4:49-57.

RADIATION LABORATORY

Bobrowski, Krzysztof

- C. Schoneich and K. Bobrowski. 1993. Intramolecular Hydrogen Transfer as the Key Step in the Dissociation of Hydroxyl Radical Adducts of (Alkylthio)ethanol Derivatives. *Journal of the American Chemical Society* 115(15):6538-6547.

Carmichael, Ian C.

- S.L. Murov, I.C. Carmichael and G.L. Hug. 1993. *Handbook of Photochemistry*, Second Edition. Marcel Dekker, Inc., New York, New York. 420 pp.

Hug, Gordon L.

- See under Carmichael, Ian C. 1993. *Handbook of Photochemistry*, Second Edition.

SCHOOL OF ARCHITECTURE

Doordan, Dennis P.

- D.P. Doordan. 1993. Promoting Aluminum: Designers and the American Aluminum Industry. *Design Issues* 9(2):44-50.

THE GRADUATE SCHOOL OFFICE OF RESEARCH

Summary of Awards Received and Proposals Submitted

In the period August 1, 1993, through August 31, 1993

AWARDS RECEIVED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	12	970,232	14	550,180	26	1,520,412
Facilities and Equipment	1	30,000	0	0	1	30,000
Instructional Programs	0	0	0	0	0	0
Service Programs	0	0	0	0	0	0
Other Programs	0	0	1	2,185,000	1	2,185,000
Total	13	1,000,232	15	2,735,180	28	3,735,412

PROPOSALS SUBMITTED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	0	0	14	1,686,791	14	1,686,791
Facilities and Equipment	0	0	0	0	0	0
Instructional Programs	1	333,775	0	0	1	333,775
Service Programs	0	0	0	0	0	0
Other Programs	1	45,675	2	17,374	3	63,049
Total	2	379,450	16	1,704,165	18	2,083,615

THE GRADUATE SCHOOL OFFICE OF RESEARCH

Awards Received

In the period August 1, 1993, through August 31, 1993

AWARDS FOR RESEARCH

Aerospace and Mechanical Engineering

Atassi, H.

Hydrodynamics and Acoustics

Department of the Navy

\$90,000 36 months

Thomas, J.

Transport Modeling of Hydrogen in Metals

Department of the Navy

\$50,000 12 months

Biological Sciences

Hyde, D.

Vertebrate Homolog of rdb Gene

Retinitis Pigmentosa Foundation

\$60,000 12 months

Civil Engineering and Geological Sciences

Pyrak-Nolte, L.

Seismic Waves in Fractured Rock

Department of Energy

\$61,256 12 months

Spencer, B.

Stochastic Fatigue of Engineering Materials

National Institute of Standards and Technology

\$45,000 36 months

Makris, N., Hill, D.

Seismic Protection of Structure

National Science Foundation

\$70,000 12 months

Westerink, J.

Circulation Computations

University of North Carolina

\$24,898 12 months

Chemical Engineering

Brennecke, J.

Presidential Young Investigator Award

National Science Foundation

\$62,500 6 months

REU Supplement for NSF CTS91-57087

National Science Foundation

\$1,908 36 months

Chemistry and Biochemistry

Helquist, P.

Synthesis and Activity of Streptogramins A and Analogues

National Institutes of Health

\$140,694 12 months

Nowak, T.

NMR Studies of Metals in Kinases and Related Enzymes

National Institutes of Health

\$227,508 12 months

Communication and Theatre

Godmilow, J.

Recapitulating Farlocki's Inextinguishable Fire

Indiana Arts Commission

\$5,000 12 months

Office of Research

Hyder, A.

Space Active Modular Materials Experiments

Jet Propulsion Laboratory

\$30,000 13 months

Electrical Engineering

Alcock, C.

Development of an Electrochemical Sensor

International Lead Zinc Research Organization, Inc.

\$24,000 5 months

Government and International Studies

Leatherman, J.

The CSCE and the Challenge of Ethnic Conflict

U.S. Institute of Peace

\$20,000 24 months

Mathematics

Stanton, N.

Partial Differential Equations and Several Complex Variables

National Science Foundation

\$32,968 24 months

Sommese, A.

Overconstrained Mechanisms and Complex Algebraic Geometry

National Science Foundation

\$60,000 36 months

THE GRADUATE SCHOOL OFFICE OF RESEARCH

Physics

LoSecco, J., Cason, N., et al.
Operating Costs for Brookhaven Experiment E-852
Brookhaven National Laboratory
\$62,956 49 months

Furdyna, J., Dobrowolska-Furdyna, M.
II-VI Semiconductors NSF/MRG
Purdue University
\$101,334 6 months

Poirier, J.
Research at Ultra High Energies
National Science Foundation
\$100,000 24 months

Glazier, J.
NSF Young Investigators Award
National Science Foundation
\$25,000 24 months

Program of Liberal Studies

Power, F.
Self-Evaluation Processes
Kauffman Foundation
\$39,890 12 months

Psychology

Whitman, T.
Drug Abuse Problems Among Teen Parents and Adolescents
Elkhart County
\$8,000 12 months

Radiation Laboratory

Schuler, R.
Effects of Radiation on Matter
Department of Energy
\$68,000 12 months

Graduate School

Hatch, N.
ISWP Fellowship for 1993-94
Institute Study for World Politics
\$21,000 9 months

South Bend Center for Medical Education

Olson, K.
Hormone Metabolism for Fish Gills
I.U. School of Medicine
\$88,500 36 months

AWARDS FOR FACILITIES AND EQUIPMENT

Physics

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

AWARDS FOR OTHER PROGRAMS

Graduate School

Hatch, N.
Pew Charitable Trusts
Pew Charitable Trusts
\$2,185,000 49 months

Proposals Submitted

In the period August 1, 1993, through August 31, 1993

PROPOSALS FOR RESEARCH

Aerospace and Mechanical Engineering

Renaud, J., Batill, S.
Neural Network Application to Structural Design
CSA Engineering Inc.
\$45,273 5 months

Powers, J.
Analysis of Confined Detonations
NASA - Lewis Research Center
\$94,294 24 months

Biological Sciences

Rai, K.
Molecular Genetic Linkage Mapping in *Aedes albopictus*
National Institutes of Health
\$252,862 12 months

Civil Engineering and Geological Sciences

Halfman, J.
Trace-Element Chemistry of Lacustrine Ostracodes
National Geographic Society
\$51,290 12 months

Suspended Sediments in Tropical Rift-Valley Lakes
ACS Petroleum Research Fund
\$115,704 24 months

Subcontract from Duke University
Duke University
\$7,000 24 months

THE GRADUATE SCHOOL OFFICE OF RESEARCH

Chemistry and Biochemistry

McKee, E.
Effect of Insulin on Mitochondrial Protein Synthesis
I.U. School of Medicine
\$48,000 24 months

Chetcuti, M.
Reactions of NiMo and NiW with Sulfur Ligands
ACS Petroleum Research Fund
\$165,212 42 months

Economics

Ghilarducci, T., Mittelstaedt, H., et al.
Decline in Pension Fund Contributions in the 1980s
National Science Foundation
\$140,340 20 months

Electrical Engineering

Costello, D., Huang, Y., et al.
Image Transmission Over Low Bit Rate Noisy Channels
NASA- Lewis Research Center
\$108,518 12 months

Mathematics

Shaw, M., Himonas, A.
Partial Differential Equations and Several Complex
Variables
National Science Foundation
\$190,480 36 months

Philosophy

Manier, A.
Philosophy, Developmental Biopsychology and Brain
Imaging
National Science Foundation
\$145,286 12 months

Physics

Ruggiero, S.
Superconducting X-Ray Detector
National Aero. Space Administration
\$233,083 36 months

Sociology

Glass, J.
Employment, Job Conditions and Depression in New
Mothers
National Science Foundation
\$89,449 24 months

PROPOSALS FOR INSTRUCTIONAL PROGRAMS

Biological Sciences

Rai, K.
Experimental Parasitology and Vector Biology
National Institutes of Health
\$333,775 12 months

PROPOSALS FOR OTHER PROGRAMS

Aerospace and Mechanical Engineering

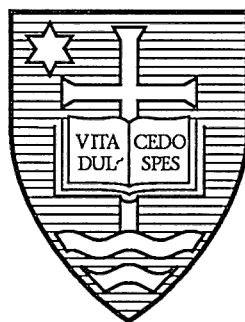
Skaar, S.
European Research Directed Toward Vision-Based
Guidance
Department of the Navy
\$7,588 3 months

Cushwa Center for the Study of American Catholicism

Dolan, J.
Hispanic Catholics in 20th-Century United States
Lilly Endowment, Inc.
\$45,675 12 months

Government and International Studies

Mainwaring, S.
NAFSA Support for Graduate Student
NAFSA/Association of International Educators
\$9,786 10 months



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