

# notre dame report

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# the university

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## melchor endows visiting professorship

Jack L. Melchor, a California venture capitalist who received his doctorate from Notre Dame, has endowed a visiting professorship in the College of Engineering.

After receiving bachelor's and master's degrees in physics from the University of North Carolina, Melchor was graduated from Notre Dame with a Ph.D. in physics. He headed the microwave ferrite group of Sylvania Electric Products, Mountain View, Calif., from 1953-56. In 1956 he became cofounder and first president of Melabs, a microwave systems and components company in Palo Alto, Calif. Five years later he cofounded Hewlett-Packard Associates, a producer of semiconductor, photoconductor and microwave components. After the company was fully acquired as an H-P Group, he became general manager of the Hewlett-Packard Palo Alto Division.

In 1969 Melchor founded the Palo Alto Investment Co. He served as chairman and chief executive officer of the firm, which initially invested in 12 start-up companies and four others. In 1980 he founded Melchor Venture Management Inc. in Los Altos, Calif., and continues to serve as its president. As a venture capitalist, Melchor has helped finance some 35 electronics companies on the San Francisco Peninsula. As a member of President Reagan's Innovation & Entrepreneurship Task Force, he was among those who recommended the capital gains tax rollback and a research and development tax credit. He holds six U.S. patents, has written 12 technical publications and is a fellow of the Institute for Electrical and Electronics Engineers.

Melchor received the Notre Dame Centennial of Science citation in 1967 and has been a member of the University's College of Engineering Advisory Council since 1982. He and his wife, Norma, a South Bend native, are the parents of four children.

## institute for clergy education changes name

Notre Dame's Institute for Clergy Education has changed its name to the Center for Continuing Formation in Ministry.

According to Center director Rev. Robert S. Pelton, C.S.C., the new name was chosen "to indicate the wider diversity and availability of our program." The Center, a component of the University's Institute for Pastoral and Social Ministry, administers a 16-week-long continuing education and spiritual renewal program for priests twice a year. Since its beginning in 1976, nearly a thousand participants (roughly two percent of America's active priests) have been graduated from the program.

The program's spring session will be expanded to include not only priests, but also religious and lay men and women engaged in ministry. Admission to the fall sessions of the program will remain restricted to priests.

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# faculty notes

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## appointments

Jeremiah P. Freeman, professor of chemistry, has been appointed assistant chairman of the Preprofessional Studies Program at the University by Provost Timothy O'Meara. A 1950 graduate of Notre Dame, Freeman obtained master's and doctoral degrees from the University of Illinois in 1951 and 1953 respectively. He has been a member of Notre Dame's faculty since 1964.

## honors

Maureen T. Hallinan, White professor of sociology, has been appointed to an American Sociological Association committee to evaluate the Rose Monograph series.

Robert S. Hughes, Jr., visiting assistant professor of English, has won the 1985 Richard and Dorothy Burkhardt Prize for best Steinbeck Quarterly article of the year. His article, "Steinbeck's Uncollected Stories," appeared in the Summer-Fall 1985 issue of that journal. The prize is awarded annually by Ball State University, Muncie, Ind.

Marjorie Schreiber Kinsey, part-time assistant professor of art, art history and design, has been named a Bryant Drake Guest Professor for 1986-87 at Kobe College, Kobe, Japan.

Leonard M. Savoie, professor and chairman of accountancy, has been appointed to serve on the Professional Examinations Committee of the American Accounting Association.

J. Kerry Thomas, Nieuwland professor of chemistry, has been appointed to the advisory board of the Journal of Colloid and Interface Science. He already serves on the editorial boards of the Journal of Physical Chemistry and Chemical Physics Letters.

Anthony M. Trozzolo, Huisiking professor of chemistry, has been appointed Consulting Editor in Organic Chemistry for the Encyclopedia of Science and Technology, published by the McGraw-Hill Book Company.

## activities

Panos J. Antsaklis, associate professor of electrical engineering, gave a talk titled "Feedback Configurations in Control Design" at TRW, Space and Technology Group, Redondo Beach, Calif., Feb. 4.

Hafiz Atassi, professor of aerospace and mechanical engineering, gave an invited lecture titled "Three-Dimensional Periodic Gusts Acting Upon Lifting Airfoils" at the David Taylor Naval Ship Research and Development Center, Bethesda, Md., Feb. 4.

William B. Berry, professor of electrical engineering, represented the American Society for Engineering Education's Engineering Research Council at the White House Conference on Small Business, held in Charleston, W. Va., Dec. 17.

Guillermo J. Ferraudi, associate professor in the Radiation Laboratory, gave an invited seminar on "Magnetic Field Effects in the Photochemistry of Coordination Compounds" at the University of Akron, Ohio, Feb. 4.

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Teresa Ghilarducci, assistant professor of economics, chaired a panel on "Economic Measurement of Well Being" at the American Economics Association meetings, New York, N.Y., Dec. 28. She also presented a paper, "Pensions and Collective Bargaining," at the Industrial Relations Research Association, Dissertation Roundtable Competition, Dec. 29.

Maureen T. Hallinan, White professor of sociology, presented "Student Social Relations in Desegregated Classrooms" for the department of education at the University of Chicago Jan. 28. She also gave the keynote address, "Children's Social Interactions in the Classroom," at the annual meeting of Montessori teachers in South Bend Jan. 31.

Edward A. Kline, professor and chairman of English and director of the Freshman Writing Program, conducted seminars on the teaching of writing for the faculty of Whitney Young College, Kentucky State University, Frankfort, Ky., Feb. 4-5.

Rev. Ernan McMullin, O'Hara professor of philosophy, spoke on "The Impact of Evolutionary Theory on Western Religion" at a World Congress on Science and Religion at Bombay, India, Jan. 9. He gave two seminars, "Newton's Epistemology" and "Recent Works in Philosophy of Science," at the Indian Institute of Technology in Bombay Jan. 13.

Kathie E. Newman, assistant professor of physics, presented a talk titled "Phase Transitions and Correlations in (GaAs)-Ge and Related Alloys" at Purdue University, West Lafayette, Ind., Feb. 10.

Juan M. Rivera, assistant professor of accountancy, received a Fulbright Fellowship for teaching and research in Panama. He will be affiliated with the University of Panama in Panama City during the summer of 1986.

Robert P. Schmuhl, assistant professor of American Studies, discussed "Television Coverage of Crises and Catastrophes" on a special edition of the program "Extension 720," broadcast by WGN, Chicago, Jan. 28.

Mark Searle, associate professor of theology, presented a "Report to the Academy on the Notre Dame Study of Catholic Parish Life" at the annual meeting of the North American Academy of Liturgy, held at Duke University, Durham, N.C., Jan. 5. He also conducted a study day for the Steering Committee of the North American Forum on the Catechumenate, Washington, D.C., Jan. 27.

Carl L. Stam, associate professional specialist in music and director of choral music, conducted a workshop in choral music at Bellarmine College, Louisville, Ky., Jan. 14.

Donald G. Vogl, associate professor of art, served as a visiting guest artist at the University of North Carolina, Charlotte, Feb. 17-19.

### Errata

On page 216 of Notre Dame Report #10, a typographical error appears in a publication citation for Pamela R. Falkenberg, assistant professor of communication and theatre. The title of her article should read, "Review of Hollywood and the Catholic Church: The Image of Roman Catholicism in American Movies and the Jew in American Cinema."

On page 696 of the NDR Index, Vol. 14, the entry #17-556 in the Faculty Notes category should appear in the listing for John A. Weber, not H. Ronald Weber.

# documen- tation

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## special university awards recommendations

Nominations are requested for the three special awards described below. Nomination letters should include reasons appropriate to the award as well as sufficient background material and/or documentation to support the candidate's nomination. Selection is based on the letter and materials submitted by the nominator. Nominations should be sent to Isabel Charles, Assistant Provost, by Friday, April 4 to be forwarded to the selection committees. Award winners will be honored at the President's Dinner in May.

### Faculty Award

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

### Faculty Award Winners Since 1960

1959-60 Otto Bird  
1960-61 John Frederick  
1961-62 Milton Burton  
1962-63 Stephen Kertesz  
1963-64 Raymond Gutschick  
1964-65 Matthew Fitzsimons  
1965-66 Bernard D. Cullity  
1966-67 John Magee  
1967-68 Rev. Charles E. Sheedy, C.S.C.  
1968-69 Bernard Waldman  
1969-70 James Massey  
1970-71 Thomas Stritch  
1971-72 Ernest Sandeen  
1972-73 Rev. Ernan McMullin  
1973-74 Robert E. Rodes, Jr.  
1974-75 Herbert E. Sim  
1975-76 Ronald Weber  
1976-77 Walter Miller  
1977-78 J. Philip Gleason  
1978-79 K.T. Yang  
1979-80 Frederick J. Crosson  
1980-81 Jeremiah P. Freeman  
1981-82 Morris Pollard  
1982-83 James Kohn  
1983-84 John Malone  
1984-85 Rudy Bottei

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### Reinhold Niebuhr Award

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

### Reinhold Niebuhr Award Winners

1973 Msgr. John J. Egan  
1974 CILA (Community for the International Lay Apostolate)  
1975 George N. Shuster  
1976 Rev. Louis Putz, C.S.C.  
1977 Mr. and Mrs. Arthur Quigley  
1978 Thomas P. Broden  
1979 Rev. William Toohey, C.S.C.  
1980 Rev. Don McNeill, C.S.C.  
1981 Charles K. Wilber  
1982 Kenneth and Penny Jameson  
1983 Julian Pleasants  
1984 John W. Houck and Rev. Oliver F. Williams, C.S.C.  
1985 James Sterba

### Grenville Clark Award

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

### Grenville Clark Award Winners

1979 Peter Walshe  
1980 James and Mary Ann Roemer  
1981 Sr. Judith Ann Beattie, C.S.C.  
1982 Kenneth W. Milani  
1983 Peggy Roach  
1984 The Notre Dame Legal Aid and Defender Association  
1985 Cecil and Mary Mast

## addition to faculty handbook

Editor's Note: The following changes have been made in the University Policy on Outside Activities, effective for the 1986-87 academic year. The information below appears on pages 54 and 55 of the 1985 Faculty Handbook; underlined portions indicate the changes to be made.

## Outside Activities

The University of Notre Dame recognizes that faculty members are on occasion called upon to provide consulting and other professional activities by outside agencies and industries. Such activities are normally looked on with favor where they (1) contribute to the professional development of a faculty member, or (2) contribute an expertise to a problem of a society or industry that is not commonly available, or (3) provide some carryover into the instructional program of the professor involved.

Activities covered under this policy include all types of endeavor for which the faculty member is compensated over and above his normal compensation from the University.

For full-time members, outside consulting or professional work is limited to an average of 8 hours per calendar week. Time spent on such outside activities must be in addition to, rather than a part of, the normal full-time effort expected of members of the faculty for University work. Outside work must in no way interfere with the University duties of teaching, research and service. Full-time members of the faculty are ordinarily prohibited from having active ownership of, and/or managerial involvement in, a business/professional enterprise. Any exceptions must be approved annually by the respective dean or deans in conformity with procedures outlined in the final paragraph of this section.

The University must be compensated at prevailing rates for special facilities used by a faculty member in performance of outside activity obligations.

Normally, teaching in a program other than that of the University of Notre Dame will not be approved. Research that would normally be done under the University auspices should not be performed by private individual contract. In general, no outside activity shall in any way conflict with interests of the University, and an activity which can be appropriately performed for the University shall not be performed as an outside activity. A faculty member may not use the name of the University or any University component in connection with any outside activity other than a normal identification of the faculty member's position in the University when such identification is both relevant to the outside activity and beneficial to the University.

A faculty member desiring to engage in outside activities should receive approval from the dean of the college prior to any agreement to perform such work, if of a recurring nature. Permission should be requested via the form, "Memorandum for Proposed Outside Activities," submitted to the dean through the department chairman. Permission for such outside work is automatically considered to be terminated at the end of each University contract period. Thus, a professor on an academic year appointment should request renewal each September 1 for any continuing arrangement. Faculty members on summer appointment should comply with the above policy during the period of the summer contract. Approval for individual, nonrecurring endeavors is to be obtained from one's department chairman.

## **minutes of the 215th graduate council meeting december 4, 1985**

The meeting was called to order at 3:30 p.m. on Dec. 4, 1985. Following are the members who could not attend the meeting: Mr. Robert C. Miller, represented by Mrs. Maureen L. Gleason, Dean Frank K. Reilly, represented by Dr. Yusaku Furuhashi, Dr. Cornelius F. Delaney and Dr. Michael R. Welch. Dr. Robert E. Gordon welcomed Dr. Frederick J. Crosson, the Council's guest, to the meeting.

### I. Minutes of the 214th Meeting

The minutes of the 214th meeting were approved as distributed.

### II. Proposal for the Establishment of the Master of Arts in Humanities Program

The Chairman gave a brief background to the proposal. He reported that there had been a growing recognition in higher education of the importance of an advanced program in liberal learning to the basic understanding of knowledge in the Humanities. That recognition led to the development of Master's programs in liberal studies in a dozen

institutions by 1970. In 1975, twelve charter institutions established the Association of Graduate Liberal Studies Programs. Dr. Crosson attended a meeting of the association two years ago. The present proposal is the result of much thinking and discussion that followed the meeting. Dr. Gordon reminded the members that it is the practice of the Council to give a proposal several readings before voting on it and that today's discussion of the proposal would constitute the first reading.

Dr. Crosson began by pointing out the difference between existing Master of Liberal Studies (M.L.S.) programs and the Master of Arts in Humanities (M.A.H.) program that he proposed. All M.L.S. programs are terminal master's programs. They tend to be located in an urban setting and they draw students mostly from adult groups. The proposed M.A. in Humanities degree, on the other hand, is a "front-end" degree, specifically designed for students who wish to continue with doctoral work in one of the more specialized fields in the Humanities. This program addresses the problem of the relation between the field of concentration and the broad construct in which the doctoral discipline is placed. It is an effort to meet the criticism that specialization tends to produce Ph.D. graduates who are not widely informed. Recruitment will be made from the pool of applicants to the cooperating departments and limited to the people accepted by these departments. Every applicant requesting information about entry into the respective doctoral programs will be sent a description of the M.A.H. The exact size of the enrollment cannot be determined at this point, but it probably will not exceed 10 or 12 in the beginning. A survey of a sample of graduate students has been undertaken. So far, 25% of the students have returned the form and every one of the students has responded that he or she would have been interested in participating. The program may be phased in over a period of two years, with only four courses offered in the first year and six courses in the second and subsequent years. So far, there have been six or seven faculty members who have expressed an interest in the program. Dr. Crosson concluded his presentation by noting that the M.A.H. may enhance the chances of graduates to gain access to faculty appointment and that if the program succeeds in this way, it may be replicated elsewhere and may contribute to improving the quality of teaching in the humanities.

Following Dr. Crosson's presentation, the meeting was opened for discussion. One Council member said he opposed, in principle, any graduate program that does not require a demonstration of scholarship. He also said that this program would prolong graduate study and questioned whether this was good. Dr. Crosson responded that the M.A.H. would be the front end of a doctoral program and that M.A.H. graduates would be involved in research on reaching the Ph.D. level. The doctoral program would be lengthened by one year but the benefits we hope students would derive from the program would make the additional time worthwhile. Another member, who spoke in support of the proposed program, reminded the Council of the problem of placement in the Humanities. He said that since many of our graduates in the Humanities will work in institutions requiring more teaching than research, the M.A.H. in addition to the Ph.D. would make our graduates much more adaptable and hence placeable. In response to a question, Dr. Crosson informed the Council that Science faculty would also be welcome to participate in the program. A Council member, who was a faculty in the Department of History, expressed some reservation with regard to this Department's participation. Another member, a faculty in the Department of Government, said that he was himself interested in the program, but that his Department had not formally discussed the question of participation. In the College of Arts and Letters, there was some concern about teaching load in the Program of Liberal Studies and it was felt that the establishment of the new program, as it is proposed, could exacerbate the problem. To alleviate the teaching load, it was suggested that the number of Humanities seminars be reduced to one a year with different reading lists each year. Dr. Crosson said he would consider this suggestion. Another member wondered whether cooperating departments would be willing to give up students to the program while continuing their support. Dr. Gordon reported that a proposal had been submitted to NEH and it appeared that the prospects were good. Efforts would be made to seek additional support from private foundations if the NEH proposal was approved. Tuition support would be shared by cooperating departments with matching support from the Office of Advanced Studies. Dr. Gordon concluded the discussion with the suggestion that additional talks be held with the cooperating departments before the Council reconsiders the proposal at its next meeting in February. He thanked Dr. Crosson for the presentation and for answering the questions of the Council.

### III. Chairman's Remarks

1. Graduate Council Election Nominating Committee: Members of the Committee are Dr. Cornelius F. Delaney, Chairman, Dr. James P. Kohn, and Dr. James T. Cushing. The committee will report to the Council at its meeting in February.
2. Tax on Graduate Tuition: Since the last Council meeting, Dr. Gordon, as Chairman of the Council of Graduate Schools Board, had sent the CGS alert to all member institutions



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and urged graduate deans to write, and to have their students write, to their respective congressmen. The University had written to members of the Congress, in particular, to those in the Indiana Congressional group. A letter had also been sent to all affected students and to chairmen of graduate departments. Dr. Gordon also met to discuss the situation with department chairmen. Out of these meetings and discussions emerged several suggestions for action. These include the following: Minimize the number of credits taken in the Spring semester, activate a professional requirement (i.e., teaching and all related activities) and delay withholding to the very last possible moment. To permit the reduction of credits in the Spring semester, the following resolution was proposed: "As one measure to permit a transition, to ease the burden rather unceremoniously dumped on the graduate assistants by a quirk of the law, the practice already in place for the Summer Session should be extended to the Spring 1986 semester, namely that students taking one credit hour and actively engaged in the pursuit of their degree are eligible for support. Said students shall be considered full-time for purposes of residency."

The resolution was adopted unanimously.

3. Health Insurance: The University requires all foreign graduate students to carry health insurance. A letter was sent to those students who had not complied with this requirement, notifying them that they would be disenrolled if they failed to meet this requirement within two weeks.

4. Guide for Writing Dissertations and Theses: The new Guide for Writing Dissertations and Theses has just been published by the Graduate School and copies have been sent to all departments. Additional copies are available in the Notre Dame Bookstore.

5. Annual Meeting of the Council of Graduate Schools: The next annual meeting of the council of Graduate Schools will be held at Anaheim, Calif., Dec. 11-14. There will be opportunities at this meeting for exchange of ideas on how to deal with the tax problem.

6. Student Fellowship Lists: An annual list of fellowship opportunities is published in September, followed by monthly updates. Departmental advisors are urged to take an active part in encouraging students to compete for outside support.

#### IV. Other Business

There was no other business. The meeting was adjourned at 5 p.m.

# advanced studies

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## current publications and other scholarly works

Current publications should be mailed to the  
Division of Research and Sponsored Programs,  
Room 314, Administration Building.

### COLLEGE OF ARTS AND LETTERS

#### Economics

- Jameson, Kenneth P.  
K.P. Jameson. 1986. Rural Education and  
Productivity in Paraguay. Pages 157-174  
in, N. Nystrom, ed., Latin American Educa-  
tion: A Quest for Identity. Center for  
Latin American Studies, Tulane University,  
New Orleans, Louisiana.

#### English

- Jemielly, Thomas J.  
T.J. Jemielly. 1986. Samuel Johnson,  
The Vanity of Human Wishes, and Bio-  
graphical Criticism. Studies in  
Eighteenth-Century Culture 15:227-239.  
T.J. Jemielly. 1985. Divine Derision and  
Scorn: The Hebrew Prophets as Satirists.  
Cithara: Essays in the Judaeo-Christian  
Tradition 25(1):47-68.

- Matthias, John E.  
J.E. Matthias. 1986. An East Anglian  
Diptych: Ley Lines, Rivers. Poetry  
Wales 21(2):51-67.

#### Philosophy

- Morris, Thomas V.  
T.V. Morris. 1986. The Logic of God In-  
carnate. Cornell University Press,  
Ithaca, New York. 220 pp.  
T.V. Morris. 1985. On God and Mann: A  
View of Divine Simplicity. Religious  
Studies 21(3):299-318.

#### Program of Liberal Studies

- Jordan, Mark D.  
M.D. Jordan. 1985. The Terms of the  
Dispute over 'Christian Philosophy'.  
Communio 12:293-311.  
M.D. Jordan. 1985. Translator. G.  
Chantrain's, Ministry in Edward Schille-  
beeckx. Communio 12:192-222.  
M.D. Jordan. 1985. Translator. G.  
Chantrain's, Prayer Within the Church;  
and The Missionary Tasks Received from  
Vatican II. Communio 12:258-275; 312-  
318.

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Smith, Janet E.  
J.E. Smith. 1985. Plato's Myths as 'Likely  
Accounts', Worthy of Belief. Apeiron 19:  
24-42.

Sociology

Weigert, Andrew J.  
A.J. Weigert and J.D. Lewis. 1985. Social  
Atomism, Holism, and Trust. The Socio-  
logical Quarterly 26(4):455-471.

Theology

Kannengiesser, SJ, Charles  
C. Kannengiesser, SJ. 1986. The Spiritual  
Message of the Great Fathers. Pages 61-  
88 in, B. McGinn, J. Meyendorff and J.  
LecTercq, eds.; Christian Spirituality.  
Origins to the Twelfth Century (Volume 16  
of World Spirituality: An Encyclopedic  
History of the Religious Quest). Cross-  
roads, New York, New York.  
White, James F.  
J.F. White. 1986. Why We Say Creeds.  
United Methodist Bridges 1:14-15.

COLLEGE OF SCIENCE

Biological Sciences

Craig, Jr., George B.  
R.S. Nasci and G.B. Craig, Jr. 1985.  
Local Variation in Blood Feeding by Aedes  
triseriatus and Aedes hendersoni (Diptera:  
Culicidae). Journal of Medical Entomo-  
logy 22(6):619-623.  
Lodge, David M.  
D.M. Lodge. 1985. Macrophyte-gastropod  
Associations: Observations and Experi-  
ments on Macrophyte Choice by Gastropods.  
Freshwater Biology 15:695-708.  
Martin, Vicki J.  
V.J. Martin. 1985. The Origin and Dif-  
ferentiation of Stem Cells in Hydrozoan  
Planulae. Page 36 in, Proceedings of  
the International Workshop on Hydroid  
Development. Schloss Reisenburg, West  
Germany.  
V.J. Martin. 1985. Interstitial Cells are  
Required for Polyp Morphogenesis During  
Metamorphosis of Planulae. American  
Zoologist 25:61A.

- V.J. Martin and G.R. Clemens. 1985. Proposed New Teratogenic Risk Assessment Bioassay System Utilizing Hydrozoans. Page 55 in, Proceedings of the Society of Environmental Toxicology and Chemistry. St. Louis, Missouri.
- K.J.S. Kolberg and V.J. Martin. 1985. Effects of Nicotine on the Development of a Stem Cell Population in Hydrozoan Planula Larvae. American Zoologist 25: 62A.
- E.T. Walch and V.J. Martin. 1985. Evidence of a Microtrabecular Cytoskeletal Lattice in Glandular Cells of Hydrozoan Planulae. American Zoologist 25:62A.
- V.J. Martin, K.J.S. Kolberg and W. Archer. 1985. Effects of Nicotine on the Development of an Invertebrate Embryonic System. Page 7 in, Proceedings of the International Symposium of Tobacco Smoking and Health: A Neurobiological Approach. Lexington, Kentucky.

#### Chemistry

- Thomas, J. Kerry  
D.Y. Chu and J.K. Thomas. 1985. Effect of Conformation of Poly(methacrylic acid) on the Photophysical and Photochemical Processes of Tris(2,2'-bipyridine)ruthenium(II). Journal of Physical Chemistry 89(19):4065-4070.

#### COLLEGE OF ENGINEERING

##### Civil Engineering

- Kinnmark, Ingemar P.  
I.P. Kinnmark. 1986. The Shallow Water Wave Equations: Formulation, Analysis and Application. Lecture Notes in Engineering, 15. Springer-Verlag, Berlin, Germany. XXIII, 187 p.

##### Electrical Engineering

- Michel, Anthony N.  
A.N. Michel and V. Vittal. 1985. Stability and Security Assessment of a Class of Systems Governed by Lagrange's Equation with Application to Multi-Machine Power Systems. Pages 43-48 in, Proceedings of the Twenty-Fourth IEEE Conference on Decision and Control. Fort Lauderdale, Florida.
- R.K. Miller and A.N. Michel. 1985. Analysis of Transient Oscillations in a Nonlinear Feedback System. Pages 146-155 in, Proceedings of the Twenty-Third Annual Allerton Conference on Communication, Control and Computing. University of Illinois, Urbana, Illinois.

#### COLLEGE OF BUSINESS ADMINISTRATION

##### Accountancy

- Rivera, Juan M.  
J.M. Rivera. 1985. The Accounting Profession in Spain: Apartheid or Isolationism in the European Continent. Pages 129-142 in, V.K. Zimmerman, ed., The Recent Accounting and Economic Developments in Western Europe. University of Illinois Press, Champaign-Urbana, Illinois.
- Rueschhoff, Norlin G.  
N.G. Rueschhoff. 1985. European Accounting and Auditing Standards: A Comparative Study with International Standards and Guidelines. Pages 91-114 in, V.K. Zimmerman, ed., The Recent Accounting and Economic Developments in Western Europe. University of Illinois Press, Champaign-Urbana, Illinois.

#### RADIATION LABORATORY

- Ferraudi, Guillermo J.  
C. Kutal, M.A. Weber, G.J. Ferraudi and D. Geiger. 1985. A Mechanistic Investigation of the Photoinduced Reduction of Carbon Dioxide Mediated by Tricarbonyl-bromo(2,2'-bipyridine)rhenium(I). Organometallics 4:2161.
- Geiger, David K.  
See under Ferraudi, Guillermo J. 1985. Organometallics 4:2161.
- Huo, Winifred M.  
M.A.P. Lima, T.L. Gibson, W.M. Huo and V. McKoy. 1985. Cross Sections for Electron Impact Excitation of the  $b^3\Sigma_u^+$  State of  $H_2$ : an Application of the Schwinger Multichannel Variational Method. Journal of Physics B: Atomic Molecular Physics 18:L865.

#### MEDIEVAL INSTITUTE

- McInerny, Ralph M.  
R.M. McInerny. 1985. Liberty in the Catholic Tradition. Notre Dame Journal of Law, Ethics and Public Policy 1(5): 537-543.

# awards received

Department or Office	Principal	Short title	Sponsor	Dollars Months
AWARDS FOR RESEARCH				
Biological Sciences	Craig	Factors Affecting Vector Competence in <i>Aedes triseriatus</i>	Natl. Inst. Health	279,018 12
Biological Sciences	F. Goetz	Regulation of Ovulation	Natl. Sci. Fdn.	125,000 24
Mathematics	W. Stoll	Theory of Several Complex Variables	Natl. Sci. Fdn.	50,200 12
Cushwa Cent. Amer. Cath.	J. Dolan	Roman Catholic Theological Education	Lilly Endow., Inc.	60,290 20
Physics	U. Garg	Gamma-ray Facility	Argonne Univ. Trust Fund	12,670 6
College Eng.	M. Zeller, W. Berry	Materials Development of Electrical Contacts for $\beta$ -SiC	Natl. Aero. Space Admin.	42,000 9
Biological Sciences	R. Hellenthal	ERAPT Mainframe Installation Guide	Environ. Prot. Agency	8,500 --
Metallurgical Eng.	R. Ricker	Transmission Electron Microscopy of Corrosion Fatigue	Sandia Natl. Lab.	30,000 10.5
Aerospace Mech. Eng.	T. Mueller	Separated Regions Near the Leading Edge of Airfoils	Natl. Aero. Space Admin.	46,799 12
Radiation Lab.	Schuler	Effects of Radiation on Matter	Dept. Energy	3,302,000 12
AWARDS FOR FACILITIES AND EQUIPMENT				
Physics	V. Kenney, N. Biswas	Time-of-Flight Equipment for CO Collider Experiment E-735	Natl. Sci. Fdn.	50,000 12
Management	M. Radzicki, B. Roach	Apple Macintosh Grant	Apple Computer Co., Inc.	30,900 8.5
AWARDS FOR INSTRUCTIONAL PROGRAMS				
English	S. Gernes	Lecture	Council Intl. Exchg. Scholars	9,050 8
AWARDS FOR SERVICE PROGRAMS				
Inst. Past. Soc. Min.	R. Pelton	Notre Dame Institute for Clergy Education	---	20,767 --
Inst. Past. Soc. Min.	E. Bernstein	Notre Dame Center for Pastoral Liturgy	---	60 --
Inst. Past. Soc. Min.	E. Bernstein	Notre Dame Center for Pastoral Liturgy-Publications	---	224 --
Inst. Past. Soc. Min.	J. Gremillion	Institute for Pastoral and Social Ministry-Parish Study Phase III	---	405 --
AWARDS FOR OTHER PROGRAMS				
Biological Sciences	M. Fuchs, C. Kulpa	Graduate Student Travel to ASM Annual Meeting	Amer. Soc. Microbiology	600 5

# proposals submitted

Department or Office	Principal	Short title	Sponsor	Dollars Months
PROPOSALS FOR RESEARCH				
Physics	J. LoSecco	HEP Research Using Hadron Colliders and Non-Accelerator	Dept. Energy	469,132 36
Aerospace Mech. Eng.	T. Doligalski	The 'Burst' A Viscous-Inviscid Interaction	Dept. Air Force	141,549 31
Biological Sciences	M. Clancy	Saccharomyces Gene Expression	Procter Gamble	200,933 36
Aerospace Mech. Eng.	H. Atassi	Turbulent Boundary Layer Structure	Natl. Aero. Space Admin.	25,000 9
Chemical Eng.	A. Varma	Parametric Sensitivity and Runaway in Reactors	Natl. Sci. Fdn.	315,279 36
Physics	C. Browne	Nuclear Structure Research	Natl. Sci. Fdn.	10,711 2
Chemical Eng.	J. Kantor	Presidential Young Investigator - Supplement	Natl. Sci. Fdn.	16,154 8
Chemistry	X. Creary	Structural Effects on Stabilities Reactivities of Carbocations	Natl. Sci. Fdn.	293,451 36
Earth Sciences	J. Rigby, R. Wasowski	3-D Digital Techniques	Natl. Sci. Fdn.	66,725 12
Philosophy	G. Gutting	Michel Foucault and Recent French Philosophy of Science	Natl. Sci. Fdn.	92,896 8
Music	A. Barbera	The Composition, Writing and Transmission of Sectio Canonis	Natl. Endow. Humanities	557 1
Aerospace Mech. Eng.	V. Nee	Thermodynamic Critical Heat Transfer in Pipes	Univ. Puerto Rico	283,569 36
Art, Art Hist.&Design	D. Vogl	German Art in Museums	Natl. Endow. Humanities	557 2
Philosophy	J. Garcia	Moral Absolutism: Its Theory and Practice	Natl. Res. Council	39,480 12
Philosophy	M. DePaul	Supervenience and Moral Epistemology	Amer. Council Learned Soc.	34,336 8
Mod. Class. Languages	J. Welle	Cinema in Italian Poetry	A.W. Mellon Fdn.	22,000 12
Mod. Class. Languages	J. Welle	The Cinema in Italian Poetry, 1945-1985	Univ. Wisc. Madison	16,000 9
Prog. Lib. Studies	M. Tillman	Newman's Epistemology of Liberal Education	Marguerite Eyer Wilbur Fdn.	10,000 9
Mod. Class. Languages	S. Bell	Paz and Revueltas: Public Life and Private Creation	Soc. Sci. Res. Coun.	12,500 12
Sociology	M. Hallinan	Determinants of Students' Interracial Friendliness	Natl. Inst. Health	100,426 18
Physics	W. Johnson, J. Sapirstein	Weak Interactions in Heavy Atoms	Natl. Sci. Fdn.	338,466 36
Theology	E. Ulrich	<u>Editio Princeps</u> of 31 Dead Sea Scrolls	Assoc. Theo. Schools	8,000 12
Chemistry	T. Fehlner	Metallaboranes	Natl. Sci. Fdn.	100,800 12
Biological Sciences	K. Rai, R. Boromisa	Vector Competence of <u>Aedes</u> <u>albopictus</u> to Dengue Viruses	Natl. Inst. Health	22,004 36

Earth Sciences	J. Rigby	Late Cretaceous Vertebrate Studies	Univ. Minnesota	31,502 24
Economics	J. Warlick	Effects of Social Security/Working Wives	Amer. Asscn. Univ. Women	20,000 12
Chemistry	A. Lappin	Stereoselectivity in Electron Transfer	Natl. Sci. Fdn.	63,802 12
Chemical Eng.	D. Leighton	Shear Induced Migration in Concentrated Suspensions	Amer. Chem. Soc.	15,000 24
Philosophy	M. Detlefsen	Dynamic Models of Theory Construction	Natl. Sci. Fdn.	31,014 15

PROPOSALS FOR FACILITIES AND EQUIPMENT

Economics	W. Davisson	Computer Aided Design and College Teaching	Cray Res., Inc.	10,000 12
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PROPOSALS FOR SERVICE PROGRAMS

Biological Sciences	P. Grimstad	Arbovirus Surveillance Laboratory Service	Ind. St. Bd. Health	21,591 12
Geront. Educ. Res., Serv.	J. Santos	Living-at-Home Program	Living-at-Home Prog.	462,615 36

## summary of awards received and proposals submitted

AWARDS RECEIVED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	7	3,905,307	3	51,170	10	3,956,477
Facilities and Equipment	0	0	2	80,900	2	80,900
Instructional Programs	0	0	1	9,050	1	9,050
Service Programs	0	0	4	21,456	4	21,456
Other Programs	0	0	1	600	1	600
Total	7	3,905,307	11	163,176	18	4,068,483

PROPOSALS SUBMITTED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	4	191,467	25	2,590,376	29	2,781,843
Facilities and Equipment	0	0	1	10,000	1	10,000
Instructional Programs	0	0	0	0	0	0
Service Programs	1	21,591	1	462,615	2	484,206
Other Programs	0	0	0	0	0	0
Total	5	213,058	27	3,062,991	32	3,276,049

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## **notre dame report**

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