

# notre dame report

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## contents

### the university

- 277 Three to Receive Alumni Awards
- 277 More Business Courses Open to Non-Majors Soon

### faculty notes

- 278 Appointments
- 278 Honors
- 279 Activities

### advanced studies

- 281 Current Publications and Other Scholarly Works
- 285 Awards Received
- 286 Proposals Submitted
- 287 Summary of Awards Received and Proposals  
Submitted

85-86

April 18, 1986

number 15

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# the university

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## three to receive alumni awards

Three Notre Dame graduates will be honored by the Alumni Association in coming months for their exceptional service over the years to their school and to fellow citizens.

The James E. Armstrong Award, honoring a former director of the alumni group, will be presented to Michael A. DeCicco, academic advisor and fencing coach, at an Alumni Senate meeting May 2. This award honors a current employee for long and distinguished service and recognizes DeCicco's talents as a counselor for athletes, resulting in a high percentage receiving degrees. He is completing his 25th year as fencing coach and has recorded more victories than any other coach in the history of the University.

A 1920 graduate, John T. Balfe of Sun City, Ariz., will receive the Rev. Edward Frederick Sorin, C.S.C. Award at the June Reunion Banquet. Named for the founder of the University and given annually to a graduate who has given exceptional service to Notre Dame, Balfe will be recognized as the co-founder and past president of the Notre Dame Club of New York, and for the establishment of a pioneering scholarship program and placement service, his election to the Alumni Board and his selection as Notre Dame Man of the Year in 1943.

Frederick C. "Fritz" Shadley of Cincinnati has been named the 1986 recipient of the William D. Reynolds Award, honoring a graduate working with youth to improve the quality of life. The 1948 graduate is executive director of the Workshops for Retarded Citizens and has been active on several University and alumni committees. His award will be presented at halftime of the Blue-Gold football game at Notre Dame April 26.

## more business courses open to non-majors soon

The problem of access to College of Business Administration courses by non-business majors will be eliminated over the next two years, Provost Timothy O'Meara has announced.

To facilitate access, O'Meara said, additional business faculty will be phased in during the 1986-87 and 1987-88 academic years. He noted that as a matter of general policy, a wide variety of courses in each of the University's academic disciplines should be available to any student who has the course prerequisites, is willing to meet the standards for course participation, and into whose overall program of studies the course fits as a free elective.

O'Meara emphasized that while improved access will begin during the coming year in the Accountancy Department, it will take two years to develop a satisfactory system of open access to electives in the College of Business Administration.

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Vol. 15, No. 15

April 18, 1986

Notre Dame Report (USPS 7070-8000) is an official publication published fortnightly during the school year, monthly in the summer, by the University of Notre Dame, Department of Public Relations and Information. Second-class postage paid at Notre Dame, Ind. Postmaster: Please send address corrections to: Editor, Notre Dame Report, c/o Rm. 212, Administration Building, Notre Dame, IN 46556

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# faculty notes

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## appointments

Directors of foreign study programs operated by the University in Angers, France, and Innsbruck, Austria, have been announced by Dr. Isabel Charles, assistant provost and program director.

Norlin G. Rueschhoff, professor of accountancy and a member of the faculty since 1969, will direct the Innsbruck program during the 1986-87 academic year. He will succeed David L. Schindler, associate professor in the Program of Liberal Studies, who will return to teaching duties on the campus. There are 38 students enrolled in the program at present.

A new member of the Notre Dame faculty, Michael F. Palo, will succeed Thomas and Claudia Kselman, co-directors of the Angers program. A native of Middletown, N.Y., Palo has served as director of the Emerson College program in Europe and of the Illinois State program in Grenoble, France, during the last seven years. He received his Ph.D. degree at the University of Illinois in 1978.

Thomas Kselman, a member of the faculty since 1979, will return to teaching duties as associate professor of history. His wife holds the title of part-time assistant professional specialist in the Foreign Study Program.

## honors

Thomas P. Bergin, dean of continuing education and professor of management, has been asked by South Bend Mayor Roger Parent to serve on the Steering Committee of the Bicentennial Celebration of the Signing of the United States Constitution.

James T. Cushing, professor of physics, has been appointed to the advisory editorial board of the series "Science and Philosophy" (Martinus Nijhoff).

Philip L. Quinn, O'Brien professor of philosophy, has been appointed chair of the American Philosophical Association's Committee on Career Opportunities, 1985-1990. By virtue of this office he also serves as ex officio member of the APA National Board of Officers 1985-1990, and ex officio member of the APA Committee on the Status and Future of the Profession 1985-1990. He has also been appointed a member of the APA Eastern Division Program Committee for 1986, and was appointed a member of the editorial board of the American Philosophical Quarterly for 1986-1989.

Norlin G. Rueschhoff, professor of accountancy, received a certificate of appreciation as Accounting Program Chairperson by the Midwest Business Administration Association March 19. On March 21, he was elected President of the Midwest Region and member of the Executive Council of the American Accounting Association.

J. Kerry Thomas, Nieuwland professor of chemistry, has been elected a Fellow of the Royal Society of Chemistry, England.

## activities

Four Notre Dame professors have received fellowships from the National Endowment for the Humanities to undertake full-time study, research and writing in their selected fields. They are: Stephen E. Gersh, professor of Medieval Studies, who will undertake research on "European Philosophy from the Late 8th to Late 9th Century"; Philip Gleason, professor of American history, "A History of American Catholic Higher Education"; Alvin C. Plantinga, John A. O'Brien professor of philosophy, "Epistemic Justification and Theistic Belief," and Thomas J. Schlereth, professor of American Studies, "Everyday Life in America, 1876-1915." The projects of the fellows are expected to begin this summer and continue through the 1986-87 academic year.

William B. Berry, professor of electrical engineering, is co-author (with M.I. Chaudhry) of a paper titled "Electrical Characterization of the Oxide-Silicon Carbide Interface by MOS Conductance Technique" presented at the 1985 Fall Meeting of the Materials Research Society, Boston, Mass., Dec. 6. He and Walter J. Gajda, Jr., associate professor of electrical engineering, presented to the Administrator of the Urban Mass Transit Administration and his staff a discussion of the future prospects for the development of advanced technology applications for the nation's Cold Weather Transit Technology Program in Washington, D.C., Jan. 29. Dr. Berry also presented a paper titled "Engineering Research Council: Its Shifting Role in Current Research" at the ASEE-Engineering Research Council Forum in Arlington, Va., March 3, and presented a discussion titled "Engineering Research Council: Issues and Strategy" at the ASEE 23rd Annual Engineering Deans' Institute, Long Beach, Calif., March 10.

Nicholas J. Carpenter, assistant professor of civil engineering, has received a Presidential Young Investigator Award from the National Science Foundation. Carpenter is a specialist in the development of improved methods of analyzing shell structures such as aircraft skins, domed roofs and ship hulls, and teaches courses in structural mechanics.

George B. Craig, Jr., Clark professor of biological sciences, presented three lectures in medical entomology, titled "Mosquito-borne Encephalitis: A Complex Zoonosis," at Purdue University, West Lafayette, Ind., as part of an exchange agreement. Prof. John MacDonald of the Purdue entomology department will give a series of lectures in Dr. Craig's medical entomology class this semester.

Xavier Creary, associate professor of chemistry, presented an invited seminar titled "The Chemistry of  $\alpha$ -Keto Cations and Related Systems" at the American Chemical Society, Cleveland Section Meeting in Miniature March 19.

Angel Delgado-Gomez, assistant professor of modern and classical languages, has been awarded a six-month NEH Fellowship to do research at the John Carter Brown Library, Brown University, Providence, R.I., from September 1986 through February 1987.

Michael R. DePaul, assistant professor of philosophy, commented on William P. Alston's "Religious Experience and Religious Diversity" at the Pacific Regional Meeting of the Society of Christian Philosophers, held at Loyola Marymount University, Los Angeles, Calif., March 7-8.

Leo A. Despres, professor of anthropology, has been awarded a Fulbright grant to lecture and conduct research in Brazil during the 1985-86 academic year.

Isaac Elishakoff, visiting Freimann professor of aerospace and mechanical engineering, gave an invited lecture titled "Probabilistic Considerations in Buckling of Beams, Plates and Shells" at Stanford (Calif.) University Feb. 20. The next day, he gave invited lectures at the Naval Postgraduate School titled "Status of Probabilistic Structural Dynamics and Some Applications" and "Reliability of Shells Subjected to Axial Compression."

Rev. Patrick D. Gaffney, C.S.C., assistant professor of anthropology, was a respondent for a panel discussion titled "One God in Three Religions: Any Hope for Reconciliation?" held at the Colfax Cultural Center in South Bend March 12. Also responding to the presentation by a panel of three students from Israel and the West Bank area were Roger L. Brooks, assistant professor of theology, and Rev. John S. Dunne, C.S.C., professor of theology. The same discussion was also held at the Center for Social Concerns on campus the previous evening.

John F. Gaski, assistant professor of marketing, is coauthor (with John R. Malone, professor of marketing) of a paper on "Urban Consumer Market Size as a Determinant of National and Local Advertising Intensity and Media Share," which he presented at the annual conference of the American Academy of Advertising, Baton Rouge, La., March 22-24.

Paul R. Grimstad, assistant professor of biological sciences, presented a lecture titled "Notes of a Disease Hunter: Mosquito-borne Encephalitis in the Midwest" to the South Bend Audubon Society at the Rum Village Nature Center March 9. He also gave an invited seminar, "Epidemiology and Ecology of Jamestown Canyon Virus in the Midwest," at the Florida Medical Entomology Laboratory, Vero Beach, March 24.

Rev. Theodore M. Hesburgh, C.S.C., President of the University, is among 170 religious leaders who have asked President Reagan to join the Soviet Union in a ban on nuclear weapons testing until the next U.S.-U.S.S.R. summit meeting. The letter to Reagan, which was released last week, noted that Scripture warns nations "Not to trust in weapons and warriors for security, but in God." Clergy and Laity Concerned gathered signatures for the letter, in cooperation with the American Friends Service Committee.

Kenneth P. Jameson, associate professor of economics and Fellow at the Helen Kellogg Institute, delivered a public address in the

William E. Clemens Lecture Series, St. John's University, Jamaica, N.Y., March 4. His topic was "A Challenge of Development in the Eighties: Stabilization with Equity."

Daniel K. Lapsley, assistant professor of psychology, presented "Adolescent Attachment and Ego Identity: A Structural Equations Approach to the Continuity of Adaptation" (with S. Quintana) at the biennial meeting of the Society for Research on Adolescence, Madison, Wis., March 22. He also chaired a two-day conference (with F. Clark Power, assistant professor in the Program of Liberal Studies) on "Integrative approaches to Self, Ego, and Identity" held at the Notre Dame Department of Psychology March 15-16.

David C. Leege, professor of government and international studies, presented three addresses and a workshop on "Themes Emerging from the Notre Dame Study of Catholic Parish Life" to the combined Bishop's Pastoral Council and the Presbyterial Council, Diocese of Richmond, Va., March 12.

Philip L. Quinn, O'Brien professor of philosophy, commented on Elton Stump's "The Doctrine of Atonement According to Aquinas" at the NEH Research Conference on Philosophy and the Christian Faith, held at Notre Dame Feb. 21. He also served as lead symposiast at the Pacific Regional Meeting, Society of Christian Philosophers, on the topic "Kantian Justification and Christian Atonement," at Loyola Marymount University, Los Angeles, Calif., March 7.

Michael J. Radzicki, assistant professor of management, presented a paper titled "Demand Amplification and Employment Instability in the Indiana Economy" at the annual meeting of the Midwest Business Economics Association, Chicago, Ill., March 21.

Norlin G. Rueschhoff, professor of accountancy, gave a workshop lecture, "International Accounting Education and Research Directions" in conjunction with the annual Midwest regional meeting of the American Accounting Association, held in Chicago March 19.

Thomas J. Schlereth, professor of American Studies, presented a paper, "Art as Artifact," for the Department of Art History, University of Chicago, March 1.

Robert H. Schuler, Director of the Radiation Laboratory and Henkels Professor of Radiation Chemistry, presented a paper on "Time Resolved Resonance Raman Methods for Studying Reaction

Transients" at the 37th Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, held in Atlantic City, N.J., March 10-14.

James H. Seckinger, Director of the National Institute for Trial Advocacy (NITA) and professor of law, served as Goodman Cohen Lecturer at Wayne State University, Detroit, Mich., Feb. 12. His topic was "The Art of Persuasion through Opening Statements." He also attended the NITA Spring Board of Trustees Meeting in Chicago March 8, and was a faculty member for a NITA Indiana Trial Skills Workshop in Indianapolis March 12. He also was a faculty member for the Maricopa County Bar Association Co-Sponsored Teacher Training Session in Phoenix, Ariz., March 22.

Andrew J. Sommese, professor of mathematics, gave a colloquium talk on "The Number of Solutions of a System of Polynomial Equations" at the General Motors Research Laboratories in Warren, Mich., March 25.

J. Kerry Thomas, Nieuwland professor of chemistry, presented an invited paper titled "Radiation Effects on Organised Systems" at the Army Radiobiology Research Institute, Bethesda, Md., March 27.

Arvind Varma, chairman and professor of chemical engineering, presented an invited graduate seminar titled "Optimal Catalyst Activity Profiles in Pellets" for the Department of Chemical Engineering, Pennsylvania State University, University Park, Pa., March 18.

"Posing" (screenprint-collage), a work by Don Vogl, associate professor of art, is on display through April 29 in the Illinois Regional Print Show at the Norris-Ditmar Gallery, Northwestern University, Evanston, Ill. April 4-April 29.

Stephen T. Worland, professor of economics, delivered a lecture titled: "Property and the Common Good: The Perspective of the Bishops' Pastoral Letter" at a conference on "Religion, Wealth and the Common Good" held at Southwestern University, Georgetown, Tex., March 17-20.

James B. Zimarowski, assistant professor of management, presented a paper titled "Public Purpose, Law and Economics: J.R. Commons and the Institutional Paradigm Revisited" at the Midwest Business Law Association meeting in Chicago March 19-21. He also chaired an academic session on employment law at that meeting.

# 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

#### American Studies

- Schlereth, Thomas J.  
T.J. Schlereth. 1986. Solon Spencer Beman,  
The Social History of a Midwest Architect,  
1870-1914. Chicago Architectural Journal  
5:9-31.

#### Core Course

- Neiman, Alven M.  
A.M. Neiman. 1985. Authority in Curriculum  
Revisited. Pages 425-429 in, Philosophy  
of Education: Proceedings of the Forty-  
First Meeting of Philosophy of Education  
Society. The Philosophy of Education  
Society, Normal, Illinois.

#### Economics

- Goulet, Denis A.  
D.A. Goulet. 1985. The Global Development  
Debate: The Case for the Alternative  
Strategies. Development and Peace 6:  
5-16.

- Swartz, Thomas R.  
T.R. Swartz. 1986. Fiscal Federalism in  
Stress. Journal of Applied Business  
Research 2:49-68.

#### English

- Kline, Edward A.  
E.A. Kline. 1985. Computers in the  
Composition-Class: The Actuality and  
the Promise. Pages 125-137 in, S.  
Kleimann, E. Rice and M. Schelltema, eds.,  
Proceedings of the Maryland Composition  
Conference. College Park, Maryland.  
O'Rourke, William A.  
W.A. O'Rourke. 1986. The Maggot Principle.  
Pages 305-312 in, P. Chittenden and M.  
Kiniry, eds., Making Connections Across  
the Curriculum: Readings for Analysis.  
Saint Martin's Press, New York.

#### Government and International Studies

- Kommers, Donald P.  
D.P. Kommers and M. Waelbroeck. 1986.  
Legal Interpretation and the Free Movement  
of Goods: The American and European  
Experience. Volume 1, Pages 165-227  
in, M. Cappelletti et al., Integration  
Through Law: Methods, Tools and Insti-  
tutions. Walter de Gruyter, Berlin and  
New York.  
D.P. Kommers. 1986. Federalism and  
European Integration: A Commentary.  
Volume 1, Pages 603-616 in, M.  
Cappelletti, et al., Integration Through  
Law: Methods, Tools and Institutions.  
Walter de Gruyter, Berlin and New York.

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D.P. Kommers, 1985. Liberty and Community in Constitutional Law: The Abortion Cases in Comparative Perspective. Brigham Young University Law Review 1985(3):371-409.

#### History

Gleason, J. Philip  
J.P. Gleason. 1985. Baltimore III and Education. U.S. Catholic Historian 4:273-306.

#### Music

Cramer, Craig J.  
C.J. Cramer. 1986. Solo Recital. Seventh-Day Adventist Church at Kettering. Sponsored by the University of Dayton and the Dayton (Ohio) Chapter of the American Guild of Organists.  
C.J. Cramer. 1986. Solo Recital. First Lutheran Church, Mishawaka, Indiana.  
Klugherz, Laura J.  
L.J. Klugherz. 1986. Conductor and Solo Violinist with the Notre Dame Chamber Orchestra. Works of Bach, Arensky, Genzmer and Mozart. Annenberg Auditorium, The Snite Museum of Art, Notre Dame, Indiana.  
L.J. Klugherz. 1986. Guest Violist with the Chester String Quartet, in the Mozart G Minor Viola Quintet. Washington Hall, University of Notre Dame, Notre Dame, Indiana.

L.J. Klugherz. 1986. Directed the Notre Dame Chamber Orchestra in a Performance of the Adagio for the Tenth Symphony of Gustav Mahler. Sacred Heart Church, University of Notre Dame, Notre Dame Indiana.

Stam, Carl L.

C.L. Stam. 1986. Conductor. Notre Dame Chamber Orchestra, and Soloists in a Performance of W.A. Mozart's, Ave Verum Corpus, KV 618 and Vesperae Solennes de Confessore, K 339. Sacred Heart Church, University of Notre Dame, Notre Dame, Indiana.

C.L. Stam. 1986. Conductor. Notre Dame Glee Club Spring Concert. Washington Hall, University of Notre Dame, Notre Dame, Indiana.

C.L. Stam. 1986. Conductor. Notre Dame Glee Club. St. Edward High School Auditorium. Lakewood, Ohio.

C.L. Stam. 1986. Conductor. Notre Dame Glee Club. Our Lady of Peace Church. Canton, Ohio.

C.L. Stam. 1986. Conductor. Notre Dame Glee Club. St. Paul African Methodist Episcopal Church. Columbus, Ohio.

#### Philosophy

Freddoso, Alfred J.

A.J. Freddoso. 1986. Human Nature, Potency and the Incarnation. Faith and Philosophy 3:27-53.

- McMullin, Ernan  
 E. McMullin. 1985. Diagnosis by Computer. Pages 199-222 in, K.F. Schaffner, ed., Logic of Discovery and Diagnosis in Medicine. University of California Press, Berkeley, California.
- Solomon, W. David.  
 W.D. Solomon. 1985. Moral Realism and Moral Knowledge. Proceedings of American Catholic Philosophical Association 59: 41-57.
- Sterba, James P.  
 J.P. Sterba. 1986. Soft Determinism, Indeterminism and the Justification for Punishment. Metaphilosophy 17(1):52-59.
- J.P. Sterba. 1986. Recent Work on Alternative Conceptions of Justice. American Philosophical Quarterly 23(1): 1-22.

#### Program of Liberal Studies

- Tillman, M. Katherine  
 M.K. Tillman. 1985. W. Dilthey and J.H. Newman on Prepredicative Thought. Human Studies 8:345-355.

#### Psychology

- McDaniel, Mark A.  
 M.A. McDaniel and G.O. Einstein. 1986. Bizarre Imagery as an Effective Memory Aid: The Importance of Distinctiveness. Journal of Experimental Psychology: Learning, Memory and Cognition 12:54-65.

#### Theology

- Bradshaw, Paul F.  
 P.F. Bradshaw. 1986. Eucharist. Pages 227-229 in, J.G. Davies ed., A New Dictionary of Liturgy and Worship. SCM Press, London, England.
- Gorski, CSC, Eugene F.  
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- E.F. Gorski, CSC. 1986. Review of R. Ackermann's, Religion as Critique. America 154(5)(Whole No. 3886):102-104.
- Laporte, Jean  
 J. Laporte. 1986. Philonic Models of Eucharistia in the Eucharist of Origen. Laval Theologique et Philosophique 42(1): 71-91.
- McBrien, Richard P.  
 R.P. McBrien. 1986. Communications and the Mission of the Church. Origins 15(30): 490-493.
- R.P. McBrien. 1985. Church and Ministry: The Achievement of Yves Congar. Theology Digest 32(3):203-211.
- Melloh, SM, John A.  
 J.A. Melloh, SM. 1986. The Word Proclaimed and Preached. Pastoral Music 10:4.
- J.A. Melloh, SM. 1986. The Word Proclaimed: Developng Lector Skills. Paulist Press, Ramsey, New Jersey. 45 Minute Videotape.

- O'Meara, O.P., Thomas F.  
 T.F. O'Meara, O.P. 1986. Modern Art and the Sacred: The Prophetic Ministry of Alain Couturier, O.P. Spirituality Today 38(1):31-40.
- White, James F.  
 J.F. White. 1986. Baptism: Methodist; Liturgies: Methodist; Marriage: Methodist; Methodist Worship. Pages 68-69; 331-332; 360; 372-373 in, A New Dictionary of Liturgy and Worship. SCM Press, London, England.
- J.F. White. 1986. Open Letter to a Pastor. Circuit Rider 10:4-5.

#### COLLEGE OF SCIENCE

#### Biological Sciences

- Carpenter, Stephen R.  
 S.R. Carpenter, M.M. Elser and J.J. Elser. 1986. Chlorophyll Production, Degradation, and Sedimentation: Implications for Paleolimnology. Limnology and Oceanography 31:112-124.
- Craig, Jr., George B.  
 G.G. Clark and G.B. Craig, Jr. 1986. Oviposition Behavior of Aedes triseriatus and Aedes hendersoni on the Delmarva Peninsula. Journal American Mosquito Control Association 1(4):526-528.

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- Chetcuti, Michael J.  
 M.C. Azar, M.J. Chetcuti, C. Eigenbrot and K.A. Green. 1985. Synthesis and Structural Characterization of the Complex [NiMo(CO)<sub>2</sub>{(μ-n<sup>2</sup>, n<sup>2</sup>-C(Me)C(Me)C(O)}-(n-C<sub>5</sub>H<sub>5</sub>)(n-C<sub>5</sub>H<sub>4</sub>Me)]. Journal of the American Chemical Society 107:7209-7210.
- Creary, Xavier  
 X. Creary and M.E. Mehrsheikh-Mohammadi. 1986. The Nature of Cationic Intermediates Derived from α-Thiophosphoryl and α-Thiocarbonyl Mesylates. Neighboring Thiophosphoryl and Thiocarbonyl Participation. Journal of Organic Chemistry 51(1):7-15.
- Eigenbrot, Jr., Charles W.  
 See under Chetcuti, Michael J. 1986. Journal of the American Chemical Society 107:7209-7210.
- Fehlner, Thomas P.  
 T.K. Dutta, J.C. Vites and T.P. Fehlner. 1986. On the Mechanism of the Hydrogenation/Dehydrogenation of a C<sub>2</sub> Fragment on a Triiron Cluster Site. Organometallics 5(2):385-386.
- C.E. Housecroft and T.P. Fehlner. 1986. Synthesis of [(μ-H)Fe<sub>4</sub>(CO)<sub>12</sub>BH]<sup>-</sup> from [(μ-H)Fe<sub>3</sub>(CO)<sub>9</sub>BH<sub>3</sub>]<sup>-</sup> via Cluster Expansion Involving H<sub>2</sub> Elimination. Organometallics 5:379-380.
- Housecroft, Catherine  
 See under Fehlner, Thomas P. 1986. Organometallics 5:379-380.



- Thomas, J. Kerry  
T. Nakamura and J.K. Thomas. 1986. The Interaction of Alkylammonium Salts with Synthetic Clays. A Fluorescence and Laser Excitation Study. Journal of Physical Chemistry 90(4):641-644.

Vites, Jose C.

See under Fehlner, Thomas P. 1986. Organometallics 5(2):385-386.

Winicur, Daniel H.

See under RADIATION LABORATORY; Hardwick, John L. 1986. Journal of Molecular Spectroscopy 115:175-187.

#### COLLEGE OF ENGINEERING

##### Chemical Engineering

Carberry, James J.

J.J. Carberry, R.A. Schmitz and P. Tipnis. 1985. Generate Meaningful Catalytic Kinetics. Chemtech 15:316.

J.J. Carberry and C. Serrano. 1985. A Multifunctional Catalyst Characterization Unit. Applied Catalysis 19:119.

J.J. Carberry. 1985. Total Oxidation Catalysis Over Supported Metals. Accounts of Chemical Research 18(12):358.

Schmitz, Roger A.

See under Carberry, James, J. 1985. Chemtech 15:316.

Varma, Arvind

M. Morbidelli and A. Varma. 1986. Parametric Sensitivity in Fixed-Bed Catalytic Reactors: The Role of Interparticle Transfer Resistances. American Institute of Chemical Engineering 32:297-306.

##### Electrical and Computer Engineering

Michel, Anthony N.

M.S. Mousa, R.K. Miller and A.N. Michel. 1986. Stability Analysis of Hybrid Composite Dynamical Systems: Descriptions Involving Operators and Differential Equations. IEEE Transactions on Automatic Control AC-31(3):216-226.

##### Materials Science and Engineering

Ricker, Richard E.

B.A. Baumert and R.E. Ricker. 1986. Effect of Heat Treatment on Corrosion Resistance of Al-Mg-Li Alloy. Pages 282-286, Book No. 358 in, ALUMINUM LITHIUM ALLOYS III: Proceedings of 1985 Oxford Conference. The Institute of Metals, London, England.

#### COLLEGE OF BUSINESS ADMINISTRATION

##### Accountancy

Ricchiute, David N.

D.N. Ricchiute. 1986. Corporate Governance and Accountability: The State of the Art. The Accounting Forum 53:54-64.

Keating, Barry P.

B.P. Keating. 1986. Telecommunications: The Ideal and the Reality. Creative Computing 11(2):100-113.

B.P. Keating. 1986. Business Forecasting. Creative Computing 11(1):119-135.

##### Marketing Management

Gaski, John F.

J.F. Gaski. 1986. The Concept of Consumer Market Efficiency: Toward Evaluating the Social Efficiency of Consumer Marketing. Volume 13, Pages 88-93 in, R.J. Lutz, ed., Advances in Consumer Research. Association for Consumer Research, Provo, Utah.

J.F. Gaski. 1986. Interrelations Among a Channel Entity's Power Sources: Impact of the Exercise of Reward and Coercion on Expert, Referent, and Legitimate Power Sources. Journal of Marketing Research 23(1):62-77.

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Fuderer, Laura S.

L.S. Fuderer. 1986. Review of P. Levi's, Grave Witness. Michiana Magazine January 12:13.

Havlik, Robert J.

R.J. Havlik. 1985. Is This of Your Own Free Will and Accord. Lincoln Herald 87(3):66-70.

#### RADIATION LABORATORY

Carmichael, Ian C.

See under Hug, Gordon, L. 1986. Journal of Photochemistry 31:179.

Ebbesen, Thomas W.

T.W. Ebbesen and C.M. Previtali. 1985. Spectral Evidence for Long-Lived Radical-Electron Pairs: Photoionization of Phenol in Alcohols. Journal of Photochemistry 31:193.

Hardwick, John L.

J.L. Hardwick and D.H. Winicur. 1986. Configuration Interaction and Spin-Orbit Coupling in the Fox-Herzberg System of C<sub>2</sub>. Journal of Molecular Spectroscopy 115:175-187.

Hug, Gordon L.

G.L. Hug and I. Carmichael. 1985. A Critique of Excitation Models for Partial Saturation of Transient Absorbance. Journal of Photochemistry 31:179.

Kamat, Prashant V.

R.V. Todesco and P.V. Kamat. 1986. Excited-state Behavior of Poly[dimethylsilylene-co-methyl(1-naphthyl)silylene]. Macromolecules 19:196.

# awards received

IN THE MONTH OF MARCH, 1986

Department or Office	Principal	Short title	Sponsor	Dollars Months
AWARDS FOR RESEARCH				
Aerospace Mech. Eng.	L. Lee	Wrinkling in Sheet Metal Forming	Natl. Sci. Fdn.	65,100 12
Mod. Class. Languages	D. Sheerin	The Erasmus-Pio Debates	Catholic Univ. America	19,709 12
Music	E. Haimo	Schoenberg's Early Twelve-Tone Compositions	Natl. Endow. Humanities	3,000 2
Philosophy	R. Foley	Rational Belief	Natl. Endow. Humanities	3,000 2
Biological Sciences	S. Carpenter	Cascading Trophic Interactions in Lake Ecosystems	Univ. Wisconsin Madison	3,773 36
College Science	J. Duman	Minority High School Research Apprentice Program	Natl. Inst. Health	4,500 12
Prog. Lib. Studies	M. Crowe	John Herschel's Contribution to Astronomy	Natl. Sci. Fdn.	30,000 12
Physics	T. Rettig, R. Ruchti	Rapid Data Acquisition for Comet Halley	Natl. Sci. Fdn.	15,090 12
Aerospace Mech. Eng.	H. Atassi	Turbulent Boundary Layer Structure	Natl. Aero. Space Admin.	25,000 9
Chemical Eng.	J. Kantor	Presidential Young Investigator - Supplement	Natl. Sci. Fdn.	29,500 12
Chemical Eng.	W. Strieder	Thermal Radiation and Conduction in Porous Media	Amer. Chem. Soc.	33,400 27
Aerospace Mech. Eng.	N. Huang, A. Szewczyk	Hydraulic Fracture	Shell Devel. Co.	20,000 12
Physics	K. Newman	Theory of Phase Transitions in Mixed Semiconducting Alloys	Dept. Navy	47,431 12
Physics	J. Dow	Semiconducting Superlattices and Microstructures	Dept. Navy	212,000 12
Aerospace Mech. Eng.	N. Huang	Hydraulic Fracture	Amoco Prod. Co.	20,000 12
AWARDS FOR FACILITIES EQUIPMENT				
Materials Science & Eng.	Miller, Crowell, Johnson	Courseware Development	Apple Comp., Inc.	18,623 --
AWARDS FOR SERVICE PROGRAMS				
Inst. Urban Studies	T. Broden	Food Nutrition Program Re-imbursement	Ind. Dept. Publ. Instru.	4,628 3
Inst. Past. Soc. Min.	R. Pelton	The Center for Continuing Formation in Ministry	---	7,048 --
Inst. Past. Soc. Min.	E. Bernstein	Notre Dame Center for Pastoral Liturgy	---	3,413 --
Inst. Past. Soc. Min.	E. Bernstein	Notre Dame Center for Pastoral Liturgy-Publications	---	515 --
Inst. Past. Soc. Min.	S. Kelly	Programs for Church Leaders	---	3,582 --
Inst. Past. Soc. Min.	J. Gremillion	Institute for Pastoral and Social Ministry-Parish Study Phase III	---	1,805 --

Inst. Past. Soc. Min.	S. Kelly	Parish Leadership Conference	---	585
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#### AWARDS FOR OTHER PROGRAMS

College Arts Letters	L. Rapping, R. Skurski	COSEPUP Panel on Technology and Employment	Natl. Res. Council	108,950 21
Music	C. Bower	Presenter Application	Ind. Arts Comm.	600 20

## proposals submitted

IN THE MONTH OF MARCH, 1986

Department or Office	Principal	Short title	Sponsor	Dollars Months
PROPOSALS FOR RESEARCH				
Biological Sciences	Bender, Hunt, Bender	Preamniocentesis Counseling: Factors in Decision Making	C.S. Lugar Birth Defects Grant Fund	2,992 12
Psychology	C. Schellenbach	Evaluation of Parent Training for Adolescent Mothers	March of Dimes Birth Defects Fdtn.	6,754 12
Aerospace Mech. Eng.	H. Atassi	Aerodynamics and Noise of Advanced Turboprops	Natl. Aero. Space Admin.	35,388 12
Physics	Dow, Jaklevic, Kaiser	Scanning Tunneling Microscopy	Dept. Army	1,134,330 36
Physics	Dow, Jaklevic, Kaiser	Scanning Tunneling Microscopy	Dept. Air Force	1,134,330 36
Biological Sciences	M. Fraser	Molecular Biology of 34K and Polyhedrin	Dept. Agriculture	250,736 36
Physics	S. Ruggiero	Multilayer Systems	Dept. Navy	157,527 36
Electrical & Comp. Eng.	P. Antsaklis	Feedback Realizations in Control Design	Dept. Energy	231,371 36
Chemistry	F. Castellino, J. Radek	Plasminogen Streptokinase Interaction	Amer. Heart Assocn.-Ind.	6,500 12
Chemistry	Castellino, Whitefleet-Smith	Streptokinase Genome	Amer. Heart Assocn.-Ind.	14,000 24
Civil Eng.	Irvine, Ketchum, Kulpa, Silliman	Lab. Program for Biological Remediation of Soils	Niagara Mohawk Power Corp.	192,707 10
Chemistry	P. Huber	Conformation of 5S rRNA Gene	Amer. Heart Assocn.-Ind	25,118 12
Chemistry	F. Castellino, B. Chibber	Plasminogen Antibodies	Amer. Heart Assocn.-Ind.	41,099 24
Chemistry	F. Castellino, B. Chambers	Requirements and Function of Fibrinogen Binding to Platelets	Amer. Heart Assocn.-Ind.	42,308 24
Aerospace Mech. Eng.	H. Atassi	Forces on Propeller	Dept. Navy	59,715 12
Earth Sciences	E. Winkler	Restoration of Marble Facade of Old Patent Office	Smithsonian Inst.	12,239 3
Physics	W. Tomasch	Tunneling Studies of Metal Interfaces	Dept. Air Force	398,710 36
Physics	W. Tomasch	Tunneling Studies of Metal Interfaces	Dept. Navy	398,710 36
Physics	W. Tomasch	Tunneling Studies of Metal Interfaces	Dept. Energy	398,710 36

Earth Sciences	K. Rigby	Collection of Cretaceous Vertebrates	M.C. McKenna	3,788 1
Physics	B. Bunker	REXAFS Studies of Semiconductors Interfaces	Dept. Air Force	400,000 36
Physics	S. Ruggiero	Resonant-Tunneling Effects in Multilayer Systems	Natl. Sci. Fdtn.	264,350 36
Electrical & Comp. Eng.	R. Kwor	Electrical Characterization of SOI Formed by Ion Beam Synthesis	Univ. Surrey	180,414 36
Psychology	D. Kline	Theory and Mechanisms in Visual Aging	Natl. Inst. Health	71,495 12
Chemistry	T. Nowak	The Inhibition of P-Enolpyruvate Carboxykinase	Amer. Diabetes Assocn.	2,000 3
Chemistry	T. Nowak	The Structure of P-Enolpyruvate Carboxykinase	Amer. Diabetes Assocn.	2,000 3
Physics	S. Lundeen	Fast Beam Atomic Physics	Natl. Sci. Fdtn.	156,330 12
Biological Sciences	M. Fuchs	Reproductive Physiology of Aedes Mosquitoes	Natl. Inst. Health	147,801 12
PROPOSALS FOR INSTRUCTIONAL PROGRAMS				
College Arts Letters	F. Crosson	Proposal for a Master of Arts in Humanities	Dept. Education	454,882 24
Psychology	J. Borkowski, T. Whitman	Research Training in Mental Retardation	Natl. Inst. Health	103,233 12
Smith Museum of Art	D. Porter, T. Larkin	NEA Museum Training	Natl. Endow. Arts	45,320 12
PROPOSALS FOR OTHER PROGRAMS				
Philosophy	V. McKim	The Impact of Science and Technology on Society	GTE Fdtn.	9,492 9
Biological Sciences	M. Clancy	Access to Bionet	IntelliGenetics Inc.	1 12

## summary of awards received and proposals submitted

IN THE MONTH OF MARCH, 1986

### AWARDS RECEIVED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	4	249,773	11	281,730	15	531,503
Facilities and Equipment	0	0	1	18,623	1	18,623
Instructional Programs	0	0	0	0	0	0
Service Programs	0	0	7	21,576	7	21,576
Other Programs	0	0	2	109,550	2	109,550
Total	4	249,773	21	431,479	25	681,252

### PROPOSALS SUBMITTED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	5	417,514	23	5,354,204	28	5,771,718
Facilities and Equipment	0	0	0	0	0	0
Instructional Programs	1	103,233	2	500,202	3	603,435
Service Programs	0	0	0	0	0	0
Other Programs	0	0	2	9,493	2	9,493
Total	6	520,747	27	5,863,899	33	6,384,646

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## **notre dame report**

An official publication of the University of Notre Dame, Department of Public Relations and Information. Individual copies are available in the Notre Dame Hammes Bookstore at 50 cents each. Mail subscriptions are \$10 per year. Back copies are available through the mail at 70 cents each.

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