

'78-'79

notre dame report

contents

December 15, 1978

the university

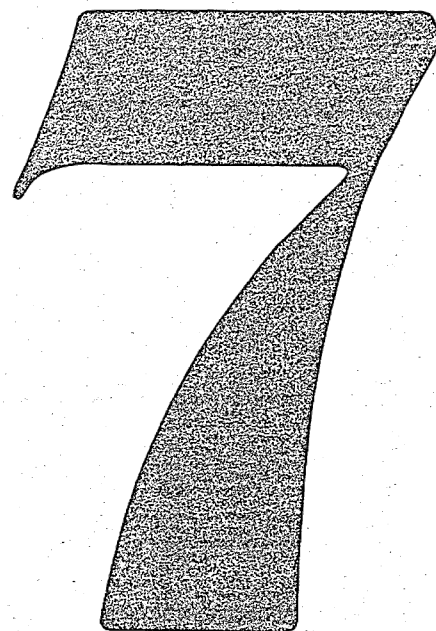
- 179 'Campaign for ND' Gifts
- 179 Memorial Library Hours
Christmas Vacation
- 179 Special Notice
- 179 Affirmative Action Committee

faculty notes

- 180 Honors
- 180 Activities

office of advanced studies

- Special Notice
- 183 Faculty Research Fund
(FRF) Program for 1978-79
- 183 Current Publications And
Other Scholarly Works



the university



'Campaign for ND' Gifts

A \$1.5 million grant from the Stepan Chemical Company of Northfield, Ill., was received for construction of a chemical research facility. The building will be named the Stepan Chemistry Hall. Alfred C. Stepan, Jr., the founder and chairman of the company, is an alumnus and trustee of the University.

In listing new construction needs for the University five years ago, the Committee on University Priorities (COUP) put a chemistry research facility first. Almost half the department's 28,000 square feet of research and graduate instruction laboratory space is in Chemistry Hall, built in 1920. The new facility is expected to add 45,000 square feet of up-to-date research and instrument space, as well as providing offices for faculty and clerical staff; seminar rooms; machine, electronic and glass shops; animal rooms, and computer terminals.

A 1931 Notre Dame graduate, Stepan became a Notre Dame trustee in 1958. Four of his sons, including F. Quinn Stepan, the current president of Stepan Chemical Company, are graduates of Notre Dame. The 1962 benefaction of Stepan and his wife, Mary Louise, built Stepan Center on campus, a student activities building with one of the earliest geodesic domes constructed in the United States.

Stepan's gift is the largest corporate contribution to the estimated \$6 million chemistry research facility. The building will be located next to Nieuwland Science Hall and is scheduled to start construction next spring. The University is seeking additional support for the building.

Memorial Library Hours Christmas Vacation

Thursday, Dec. 21 - Monday, Jan. 15, 1979

First and second floors

Monday-Saturday	8 a.m.-5 p.m.
Sunday	Closed

Tower

Monday-Saturday	8 a.m.-10 p.m.
Sunday	1 p.m.-10 p.m.

The Memorial Library Tower ONLY will be open:

Dec. 22	8 a.m.-10 p.m.
Dec. 23 and 30	8 a.m.-5 p.m.

The Memorial Library Building will be closed:

Dec. 24-26	(Christmas weekend)
Dec. 31-Jan. 1	(New Year's weekend)

The Research Libraries will be open Monday through Friday, 8 a.m. until noon and 1 p.m. until 5 p.m. They will also be closed the same days as the Memorial Library will be closed as indicated above.

All libraries will return to their regular schedules on Tuesday, Jan. 16.

Special Notice

Please note that due to the Christmas holidays, the deadline for Notre Dame Report #8 has been changed from Monday, Dec. 18 to Friday, Dec. 15.

Affirmative Action Committee

Joan Aldous, Kenan professor of sociology, has been added to the Academic Affirmative Action Committee.

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faculty notes

Honors

George B. Craig, Clark professor of biology, served as an Old Master at Purdue University on Oct. 29-31, and was elected to a four-year term as Counselor of the American Society of Tropical Medicine and Hygiene at the Chicago meeting, Nov. 6-10.

Elisabeth S. Fiorenza, associate professor of theology, was appointed to the advisory board of the Women's Ordination Conference.

Moses R. Johnson, assistant professor of psychology, was invited to serve as guest editor and reviewer for a paper entitled "The Effects of Written Feedback to Parents and a Call-In Service on Student Homework Submission," submitted to Education and Treatment of Children.

Kenneth F. Ripple, director of the White Center and associate professor of law, was appointed to the Committee on the Federal Constitution of the New York State Bar Association.

Norlin G. Rueschhoff, associate professor of accountancy, has been appointed to the International Accounting Publications Committee of the American Accounting Association.

Peter Thornton, professor of law, has been appointed to the Committee on Pattern Jury Instructions of the Association of Justices of the Supreme Court of the State of New York by the president of the association.

Activities

Hafiz Atassi, associate professor of aerospace and mechanical engineering, presented a paper entitled "Inviscid Theory of Unsteady Confluent Flows," at the American Physical Society meeting held in Los Angeles, Nov. 18-22.

Reginald F. Bain, associate professor of speech and drama, spoke on "Participatory Theatre for Young People" at the fifth national conference of the National Association for Humanities Education held at the Center for Continuing Education and Century Center, Oct. 19-21.

Wendy Carlton, assistant professor of sociology and anthropology, was the guest of Dave Barrett on "Straight Talk," Channel 34, Nov. 20 and 21, discussing her book In Our Professional Opinion.

Francis J. Castellino, professor of chemistry, delivered a plenary lecture entitled "The Role of Calcium in the Activation and Function of Factor IX" at the annual meetings of the American Heart Association in Dallas on Nov. 15, and presented an invited lecture entitled "The Activation of Human Plasminogen by Streptokinase" at the E.J. Cohn Commemorative Symposium in Boston on Nov. 21.

George B. Craig, Clark professor of biology, gave addresses on encephalitis prevention and mosquito control to: Kiwanis Club, Plymouth, Ind., Sept. 7; Elkhart County Commissioners, Elkhart, Ind., Sept. 13; St. Joseph County Health Department, Sept. 30; Indiana Association of Sanitarians, Merrillville, Oct. 5; Indiana Vector Control Association, Indianapolis, Oct. 24. He gave addresses on research for control of LaCrosse Encephalitis to: Midwest Regional Vector Control Association, Saginaw, Mich., Oct. 9; American Society of Tropical Medicine and Hygiene, Chicago, Nov. 7; Entomological Society of America, Houston, Nov. 27. Professor Craig also served on the National Institute of Health Special Study Section, Sept. 15, in Washington, D.C.

Nancy L. D'Antuono, assistant professor of modern and classical languages, presented an invited paper "La ambigüedad estructural en El mayordomo de la Duquesa de Amalfi" at a symposium on Teoría y realidad en el teatro del siglo XVII. La influencia italiana, sponsored by the Instituto español de cultura in Rome, Italy on Nov. 18.

Msgr. John J. Egan, special assistant to the President, was a participant in the conference of John XXIII Center for Medical-Moral Research and Education at the Center for Continuing Education, Nov. 28-30.

Elisabeth S. Fiorenza, associate professor of theology, read an invited paper on "The Role of Women According to Luke/Acts" at the annual meeting of the Catholic Biblical Association of America, Aug. 21-24, at the University of San Francisco. She chaired a workshop on "Liberation Theology and the Bible" sponsored by the Theologians Project of Theology in the Americas, Oct. 14. Professor Fiorenza participated in a conference on Women in Theological Education for Ministry on Nov. 8-9 in Washington, D.C., and delivered the paper "To Comfort or to Challenge? Theological Reflections on the Pre-Ordination Conference Process" at the Second Conference on the Ordination of Roman Catholic Women, Nov. 10-12, in Baltimore.

Edward Fischer, professor emeritus of American studies, was the keynote speaker at the symposium on aging sponsored by the Wisconsin Hospital Association, Nov. 16, in Milwaukee. His lectures on Oct. 14 and 15, Before the Trappists at the Abbey of Gethsemani, Trappist, Ken., were based on his book Everybody Steals from God.

A.L. Gabriel, director of the Ambrosiana Collection, lectured on "The Life of Foreign Students at the University of Paris in the Fifteenth Century" at the University of Wisconsin-Madison, Nov. 21.

Franz Grieser, scientist in the Radiation Laboratory, presented a seminar entitled "Phosphorescence, Fluorescence and Steady-State Absorption Techniques Applied to the Study of the Solubilization of Arenes in Aqueous Micellar Systems" at Argonne National Laboratory, Argonne, Ill., on Nov. 22.

John A. Halloran, assistant professor of finance, served as chairman and delivered a lecture on "Loan Loss Accounting" on Nov. 13 in Chicago as part of a Call Report Clinic sponsored by the Bank Administration Institute.

James M. Johnson, assistant professor finance, was chairman at the Bank Administration Institute's Call Report Presentation Clinic held in Columbus, Ohio on Nov. 15. He also made a presentation to the clinic entitled "Accounting for Loan Losses."

Moses R. Johnson and Charles R. Crowell, assistant professors of psychology; Thomas L. Whitman, associate professor of psychology, and Edward A. Konarski, Jr. presented a poster session entitled "Use and Evaluation of the Response Deprivation Hypothesis to Increase Academic Responding" on Nov. 17 at the 12th Annual Association for Advancement of Behavior Therapy held at Chicago.

A. Murty Kanury, associate professor of aerospace and mechanical engineering, presented a paper at the 1978 Midwest Energy Conference in Chicago, Nov. 19-21 entitled "Heat Transfer Analysis of a Domestic Wood-Burning Heat Circulating Fireplace."

Lloyd H. Ketchum, Jr., assistant professor of civil engineering, presented a paper titled, "Sequencing Batch Reactors to Meet Compliance" at the 71st Annual Meeting of the American Institute of Chemical Engineers. The paper, co-authored by Robert L. Irvine, associate professor of civil engineering, and Robert W. Dennis, was part of a symposium titled, "Automation in Water and Wastewater Treatment Plants to Achieve Compliance," held in Miami Beach, Fla., Nov. 12-16. Professor Ketchum also presented a paper titled, "New Technology in Wastewater Treatment for Small Communities," co-authored by Professor Irvine, at the 42nd Annual Conference of the Indiana Water Pollution Control Association, in Indianapolis, Nov. 6-8.

Kwan S. Kim, associate professor of economics, gave a talk on "The Distributional Consequences of the recent Brazilian Economic Growth" at an Agency for International Development seminar on Oct. 23 in Washington, D.C.

Edward A. Kline, associate professor of English and director of the Freshman Writing Programs, presented a lecture-demonstration of computer-assisted review lessons in English grammar and spelling at the fall meeting of EDUCOM, Washington, D.C., Nov. 14-16.

John J. Kozak, professor of chemistry and scientist in the Radiation Laboratory, was an invited participant at the XVII International Solvay Conference on Physics held in Brussels, Belgium, Nov. 20-24, 1978, on the subject "Order and Fluctuations in Equilibrium and Non-Equilibrium Statistical Mechanics."

Howard P. Lanser, associate professor of finance, discussed a paper entitled "The Corporation Dividend Decision" at the Eight Annual Meeting at the Financial Management Association in Minneapolis, Oct. 13.

John Lyon, chairman and associate professor of the general program of liberal studies, spoke before a curriculum revision colloquium of faculty and administrators at DePaul University, Chicago, Nov. 20 on the history, aims and structure of the General Program of Liberal Studies at Notre Dame.

Edward J. Mayo, associate professor of marketing, conducted a "Transactional Analysis and Travel Behavior" workshop at an educational seminar of the Institute of Certified Travel Agents in San Francisco, Nov. 18.

Ralph McInerney, Grace professor of medieval studies and director of the Medieval Institute, read a paper entitled "Scholasticism: Beyond the Liberal Arts?" at Northern Illinois University on Nov. 10 sponsored by the Medieval Studies Program, funded by the Illinois Humanities Commission, and spoke at a banquet of Phi Beta Kappa that evening. On Nov. 14 he read a paper, "Abelard and Morality" to the Philosophy Department of St. John's University, Jamaica, Long Island.

Donald Meinheit, assistant professor of civil engineering, participated in the fall convention of the American Concrete Institute in Houston, Oct. 30 to Nov. 3.

Ken Milani, associate professor of accountancy, spoke to the Michiana Chapter of the Institute of Internal Auditors on "Human Resource Accounting and the Internal Auditor" on Nov. 9. He also made a presentation on "Federal Income Taxes--An Overview of Their Impact" at a conference held in the Center for Continuing Education by the North Central Academy of Dental Group Practices on Nov. 16.

Victor W. Nee, professor of aerospace and mechanical engineering, presented a paper at the American Physical Society meeting in Los Angeles, Nov. 20-22, entitled "Turbulent Heat Transfer Calculations Based on a Differential Field Theory."

P. Neta, associate professional specialist in the Radiation Laboratory, presented a seminar entitled "Radiolytic Studies of Free Radicals" at Catholic University of Puerto Rico on Nov. 30. He also presented a seminar entitled "One-Electron Redox Potentials of Organic Compounds as Studied by Pulse Radiolysis" at the American Chemical Society local meeting held in San Juan, Puerto Rico, on Dec. 3.

Timothy O'Meara, provost, was a participant at a meeting of higher education's concerns about Presidents Carter's anti-inflation program, Nov. 9 at the White House, Washington, D.C.

Robert E. Pitts, assistant professor of marketing, presented a paper "Sales Force Motivation Through Natural Rewards" at the Marketing Association Conference, New Orleans, on Nov. 16. He also was session coordinator for two workshops at the conference: "The Role of Non-Financial Rewards as a Sales Incentive" and "Industrial Purchasing Processes."

Kenneth F. Ripple, director of the White Center and associate professor of law, delivered a talk to the legal staff of the National Center for Law and the Handicapped on "The Role of the Amicus in Constitutional Litigation," Aug. 14 in South Bend; delivered a talk at Windmoor House entitled "The American Catholic Lawyer and the Development of Constitutional Doctrine," Nov. 6 in South Bend, and presented a report to the Advisory Committee on the Federal Appellate Rules entitled: "Court of Appeals Practice under FRAP 30 (f): A Preliminary Analysis," Oct. 19 in Washington, D.C.

J. Kerry Thomas, professor of chemistry, gave an invited talk entitled "Storage of Energy in Micellar Systems" at Boston University in Boston on Oct. 23; presented an invited talk entitled "Modification of Reactions by Micellar Systems" at E & I Dupont Company in Wilmington, Del., on Oct. 25, and gave an invited talk entitled "Effect of Micelles on Electron Transfer Reactions" at the American Chemical Society (ACS) Symposium on Solar Energy in Savannah, Ga. on Nov. 9.

Ken Thompson, assistant professor of management, presented a paper entitled "Implementing Non-Financial Rewards for Sales Force Motivation" at the 1978 Southern Allied Management/Marketing Association Conference, New Orleans, Nov. 16.

Anthony M. Trozzolo, Huisking professor of chemistry, presented the Sigma Xi lecture entitled "Singlet Oxygen in Photobiology" at Abbott Laboratories, North Chicago, Ill., on Nov. 30.

R. Brian Walsh, director of the Computing Center, delivered the keynote address "The Agony and Promise of User Services," at the annual meeting of the national Association for Computing Machinery Special Interest Group University Computing Center (ACM SIGUCC) User Services Conference VI, Oct. 16 in Boston.

Rev. Joseph L. Walter, C.S.C., associate professor of chemistry, presented the invited paper, "Metal Binding in Medicine" at the 100th anniversary of Duquesne University, Pittsburgh, for the symposium held by the Department of Chemistry on Nov. 18.

Robert W. Williamson, chairman and associate professor of accountancy, delivered the general session address "Innovations in Accounting" at the Professional Development Seminar of the National Association of Accountants in Indianapolis, Nov. 10.

Erhard M Winkler, professor of earth sciences, delivered an invited graduate seminar jointly with Sigma Xi on "Stone Decay and Stone Preservation, a Geologist's View" at the Univ. of Wisconsin-Milwaukee, Nov. 29.

Stephen T. Worland, professor of economics, delivered a paper entitled "Marx, Rawls and the Methodology of Social Economics" at the annual meeting of the Southern Economics Association, Nov. 10, Washington, D.C.

office of advanced studies

Special Notice

Faculty Research Fund (FRF)
Program for 1978-79

(See Notre Dame Report #6, p. 165)

Current Publications And Other Scholarly Works

ARTS AND LETTERS HUMANISTIC AND SOCIAL STUDIES

American Studies

- McGowan, Barbara
B. McGowan. 1978. Review of P.D. Goist's *From Main Street to State Street*. Great Lakes Review 5(1):113-114.
- Weber, Ronald
R. Weber. 1978. Letting subjects grow: Literary nonfiction from the New Yorker. The Antioch Review 36:486-499.

Art

- Geoffrion, Moira
M. Geoffrion. 1978. Art in service to the church. Retreats International Newsletter.

Economics

- Worland, Stephen T.
S.T. Worland. 1978. The uncertain future of social economics. Review of Social Economy 36(2):127-137.

Government and International Studies

- Francis, Michael J.
P.A. Kyle and M.J. Francis. 1978. Women at the polls: The case of Chile, 1970-1971. Comparative Political Studies 11(3):291-310.

Modern and Classical Languages

- LeMay, Albert H.
A.H. LeMay. 1978. La factrie. Le Farog:18-19.

Philosophy

- Evans, Joseph W.
J.W. Evans. 1978. Autumn wonderland. The Observer 13(47):16.

SCIENCE

Biology

- Saz, Howard J.
C.F. Fioravanti and H.J. Saz. 1978. Malic enzyme fumarate reductase and transhydrogenase systems in the mitochondria of adult *Spirometra mansoni*. The Journal of Experimental Zoology 206(2):167-178.

Chemistry

- Castellino, Francis J.
G.W. Amphlett, R. Byrne and F.J. Castellino. 1978. The binding of metal ions to bovine factor IX. Journal of Biological Chemistry 253(19):6774-6779.
- A.P. Kaplan, F.J. Castellino, D. Collen, B. Wiman and F.B. Taylor, Jr. 1978. Molecular mechanisms of fibrinolysis in man. Thrombosis and Haemostasis 39(2):263-283.
- Fessenden, Richard W.
*R.W. Fessenden and N.C. Verma. 1978. A time-resolved electron spin resonance study of the oxidation of ascorbic acid by hydroxyl radical. Biophysical Journal 6:93-101.
- *K.M. Bansal and R.W. Fessenden. 1978. Radiation-chemical studies of the reaction of SO₄ with uracil and its derivatives. Radiation Research 75:497-507.
- Funabashi, K.
*K. Funabashi, I. Carmichael and W.H. Hamill. 1978. Photon-induced electron transfer transitions of the solvated electrons. Journal of Chemical Physics 69(6):2652-2656.
- Gould, J. Michael
J.M. Gould. 1978. Dithiol-specific reversal of triphenyltin inhibition of CF₀-catalyzed transmembrane proton transfer in chloroplasts. Febs Letters 94(1):90-94.
- Hamill, William H.
*W.H. Hamill. 1978. Charge-pair distribution and recombination kinetics. The role of non gaussian diffusion. Journal of Physical Chemistry 82(19):2073-2077.
- *K. Funabashi, I. Carmichael and W.H. Hamill. 1978. Photon-induced electron transfer transitions of the solvated electrons. Journal of Chemical Physics 69(6):2652-2656.
- *G.C. Kuczynski, P.E. Dietz, W.H. Hamill and J.H. Jischke. 1978. H₂O related centers in potassium chloride. Physica Status Solidi 87:581-588.
- Thomas, J. Kerry
*H.E. Edwards and J.K. Thomas. 1978. A fluorescence-probe study of the interaction of cycloheptaamylose with arenes and amphiphilic molecules. Carbohydrate Research 65:173-182.

* Under the Radiation Laboratory

Physics

- Marshalek, Eugene R.
E.R. Marshalek and J.P. Blaizot. 1978. Boson expansions and quantization of time-dependent self-consistent fields. Part I. Nuclear Physics A309:422.
E.R. Marshalek and J.P. Blaizot. 1978. Boson expansions and quantization of time-dependent self-consistent fields. Part II. Nuclear Physics A309:453.

ENGINEERING

Aerospace and Mechanical Engineering

- Ariman, Teoman
T. Ariman and G.E. Muleski. 1978. Earthquake response and seismic-resistant design of underground pipelines. Pages 90-91 in, Proceedings Eighth National Meeting of Universities Council for Earthquake Engineering Research.

Metallurgical Engineering

- Kuczynski, George C.
G.C. Kuczynski, P.E. Dietz, W.H. Hamill and J.H. Jischke. 1978. H₂O related centers in potassium chloride. Physica Status Solidi 87: 581-588.

BUSINESS ADMINISTRATION

Accountancy

- Misiewicz, Kevin M.
K.M. Misiewicz. 1978. The tax nucleus of gains and losses. The Accounting Review 53(4):979-984.
Rueschhoff, Norlin G.
N.G. Rueschhoff. 1978. Accounting Principle: For Diocesses. National Catholic Stewardship Council, Inc. 23 pp.

Finance and Business Economics

- Halloran, John A.
J.A. Halloran. 1978. Mortgage risk in a portfolio theory context. Journal of the Midwest Finance Association 7(1):107-120.

Management

- Ruhe, John A.
J.A. Ruhe, V. Geurin and W. Allen. 1978. Group performance in problem solving as a function of leadership behavior and sex composition. Pages 43-48 in, Proceedings of the Southern Management Association.
Thompson, Kenneth R.
R.E. Pitts and K.R. Thompson. 1978. The supervisor's survival guide: A positive approach to motivation. Supervisory Management 23(11):2-11.

Marketing Management

- Pitts, Robert E.
R.E. Pitts and K.R. Thompson. 1978. The supervisor's survival guide: A positive approach to motivation. Supervisory Management 23(11):2-11.
Stock, James R.
D.R. McDermott and J.R. Stock. 1978. A futures perspective on logistics management: Applying the project delphi technique. Pages 1-5 in, R.G. House, ed. Distribution Research for the 1980's.

ARCHIVES

- Spencer, Thomas T.
T.T. Spencer. 1978. Review of R.A. Waller's Rainey of Illinois: A Political Biography, 1903-1934. Mid-America 60(3):197.

CENTER FOR CONTINUING EDUCATION

- Bergin, Thomas P.
T.P. Bergin and K. Martin, SP. 1978. Artists program brings joy back into education. Momentum 9(3):12-16.

MEMORIAL LIBRARY

- Berkhout, Carl T.
C.T. Berkhout. 1978. Old english research in progress 1977-1978. Neuphilologische Mitteilungen 79:291-300.

RADIATION LABORATORY

- Carmichael, Ian
K. Funabashi, I. Carmichael and W.H. Hamill. 1978. Photon-induced electron transfer transitions of the solvated electrons. Journal of Chemical Physics 69(6):2652-2656.
Funabashi, K.
K. Funabashi, I. Carmichael and W.H. Hamill. 1978. Photon-induced electron transfer transitions of the solvated electrons. Journal of Chemical Physics 69(6):2652-2656.
Hamill, William H.
K. Funabashi, I. Carmichael and W.H. Hamill. 1978. Photon-induced electron transfer transitions of the solvated electrons. Journal of Chemical Physics 69(6):2652-2656.
Scaiano, Juan C.
R.D. Small, Jr. and J.C. Scaiano. 1978. Radiationless deactivation of benzophenone triplets in aromatic solvents. Characterization of transient intermediates in the presence of diphenyl ether. The Journal of Physical Chemistry 82(19):2064-2066.
R.D. Small, Jr. and J.C. Scaiano. 1978. Laser photolysis study of biradical reactions. Pages 195-198 in, Proceedings of the 2nd International Symposium on Organic Free Radicals. Aix-en-Provence, France.
Small, Jr., Richard D.
R.D. Small, Jr. and J.C. Scaiano. 1978. Radiationless deactivation of benzophenone triplets in aromatic solvents. Characterization of transient intermediates in the presence of diphenyl ether. The Journal of Physical Chemistry 82(19):2064-2066.
R.D. Small, Jr. and J.C. Scaiano. 1978. Laser photolysis study of biradical reactions. Pages 195-198 in, Proceedings of the 2nd International Symposium on Organic Free Radicals. Aix-en-Provence, France.

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