

# notre dame report

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# the university

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## master's degree in peace studies offered

The University's Institute for International Peace Studies will offer an interdisciplinary master of arts degree in peace studies beginning this fall.

According to Robert C. Johansen, the Institute's director of graduate studies, Notre Dame's peace studies program will be the first of its kind in the U.S.

The new program will offer four areas of concentration for graduate study: international peace and world order; cultural, philosophical, and religious dimensions of peacemaking, justice and respect for human rights; conflict resolution and dispute settlement; and social change for peace, justice, and human rights.

Among the first candidates for the master of arts degree in peace studies will be 15 students from nine countries who include three graduate students from the Soviet Union, three from the U.S., three from the People's Republic of China, and one each from Japan, Great Britain, France, India, Africa, and Latin America.

## three to receive alumni awards

A 1965 Notre Dame graduate who was killed in combat during the Vietnam War will posthumously receive a special award from the Alumni Association.

The Rev. William Corby, C.S.C., Award will be presented to Mr. and Mrs. James E. Pavlicek of Hereford, Tex., parents of Lieutenant James E. Pavlicek, Jr., during halftime ceremonies of the Notre Dame-Navy football game on October 31. The award, given annually, honors a graduate who has given distinguished military service.

The Alumni Association has also announced that Brigadier General Jerome ("Gary") Cooper of Mobile, Alabama, a 1958 alumnus, will receive its Rev. John J. Cavanaugh Award. Cooper is the vice president for marketing at David Volkert & Associates, a Mobile engineering firm, and a former Alabama state legislator. The Cavanaugh Award is given annually to a graduate who has given outstanding service in federal, state, or local government. It will be presented to General Cooper Sept. 18 during the Association's National Board of Directors fall meeting.

Jack J. (Jake) Elder of Santa Barbara, Calif., a 1930 alumnus, will receive the Harvey G. Foster Award. A prominent member of one of Knute Rockne's football teams, Elder served from 1932 to 1943 as

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first director of Chicago's Catholic Youth Organization. After serving in the U.S. Navy during the Second World War, he worked for Sinclair Oil in Indianapolis. He has also served as president of the Notre Dame Club of Santa Barbara. The Foster Award is given annually to a graduate and former athlete who has given distinguished University or civic service. It will be presented to Elder during halftime ceremonies of the Notre Dame-Michigan State football game on Sept. 19.

## **indiana bell/merrill lynch endow scholarships**

The Indiana Bell Telephone Company, with an endowment of \$100,000, has established a scholarship fund for students majoring in electrical and computer engineering at Notre Dame.

In choosing Indiana Bell Scholars, preference is given to juniors and seniors ranking in the top half of their class. Selection criteria include academic achievement, character, leadership qualities, and financial need.

The Merrill Lynch & Co. Foundation will endow a \$100,000 scholarship for undergraduate minority students at Notre Dame.

The Foundation was established in 1950 as the cornerstone of Merrill Lynch's philanthropic activities. Its priority is the funding of "colleges and universities known for their academic excellence."

One of the largest components of the \$300-million Strategic Moment Campaign announced two months ago by Notre Dame is \$60 million for undergraduate financial aid, and the University is committed to increasing its minority enrollment, now at eight percent.

## **focus grant received**

The University has received a \$30,000 FOCUS grant from the GTE Foundation of Stamford, Conn. for a two-year program to assist minority students who intend to major in engineering or science.

The FOCUS program, which will be administered by the University's Office of the Freshman Year of Studies, will provide participants with six weeks' preparatory studies in engineering and science prior to their matriculation at the University. In addition, the program will provide minority students stipends for transportation, room rent, meals, and books.

## **publications and graphic services**

The Publications and Graphic Services department is responsible for the total printing program of the University and offers publications assistance to all departments, colleges, centers, and institutions at Notre Dame. The staff provides editorial, design, and production services to its customers with no charge other than the cost of design materials and the finished printed piece. The office coordinates relations with the printer from initial contact through printing and delivery.

The office also supervises the Copy Center, located in the rear of the Administration Building.

Questions about the department and its services may be directed to Carl Magel, Director, 415 Administration Building (239-5337).

# faculty notes

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## honors

Joan Aldous, William R. Kenan, Jr., professor of sociology, has been appointed to the advisory council of the College of Ecology, Cornell University. She has also been elected to the committee on nominations of the American Sociological Association.

John G. Borkowski, professor of psychology, was appointed consulting editor for Learning and Individual Differences and program area program chair for the 1988 meetings of the American Educational Research Association.

A translation by Stephen A. Fredman, associate professor of English, of Fernando Alegri's The Chilez Spring has been chosen for inclusion in Editor's Choice: Fiction, Poetry, and Art for the U.S. Small Press.

Dahli Gray, Peat Marwick research fellow of accountancy, was designated as the coordinator of the Midwest Regional Meeting, International Accounting Sessions, of the Accounting Association and was recognized for her service as a committee member of the membership committee and both the Midwest and Southeast Regional International Accounting sessions committees. She was also elected to the board of trustees at the National Meeting of the Academy of Accounting Historians.

William G. Gray, chairman and professor of civil engineering, has been elected a control member of the Computational Hydraulics Committee of the Hydraulics Division of the American Society of Civil Engineers for a four-year term.

Maureen T. Hallinan, White professor of arts and letters, was elected secretary/treasurer of the Sociology of Education section of the American Sociological Association.

Kevin M. Misiewicz, associate professor of accountancy, has been elected to a two-year term on the board of trustees of the American Taxation Association.

Catherine Mowry LaCugna, associate professor of theology, has been elected to the board of directors of the Catholic Theological Society of America (CTSA).

Billie F. Spencer, Jr., assistant professor of civil engineering, has been elected to a three-year term as chairman and member of the control group of the ASCE committee on "Fatigue and Fracture Reliability."

Nancy K. Stanton, professor of mathematics, has been reappointed to the evaluation panel for NSF Postdoctoral Fellowships in Mathematical Sciences.

Rev. Oliver F. Williams, C.S.C., associate provost and professor of management, has been elected to the board of trustees of Catholic Charities, Diocese of Fort Wayne-South Bend. He has also been elected program chairman of the Social Issues in Management Division of the Academy of Management.

## activities

Karl Ameriks, gave a talk on "Kant on the Good Will" at the Symposium Kantiana, arranged by the Universite de Fribourg, Switzerland, June 12. He delivered another talk on "Kant uber Spontaneitat" at the University of Munster, July 1 and at the University of Freiburg, West Germany, July 8.

Kathleen Biddick, assistant professor of history, gave an invited symposium paper titled "People and Things: Territorialization and Social Development in Early Medieval Europe" at the meeting of the Society for American Archaeology held in Toronto, Canada, May 9. She gave a presentation titled "Using Rbase 5000 for the Study of Medieval Land Use" to the U.C.L.A. Quantitative History Group, May 14. She commented on papers in a session devoted to "Women and the Sources of Medieval History" at the Seventh Berkshire Conference on the History of Women held at Wellesley College, Wellesley, Mass., June 19.

John G. Borkowski, professor of psychology, participated in the Third National Thinking Skills Conference held in Cincinnati, Ohio, June 15-17. He served as a panelist on "Implications of Recent Findings on Metacognition for Education." He presented papers titled "Understanding Inefficient Learning: Attributional Restraining and the Generalization of Memory-Comprehension Strategies" and "Sources of Memory and Metamemory Development: Societal, Parental, and Educational Influences" (coauthored with colleagues from Vanderbilt University and the Max Planck Institute in Munich) at a conference on applied aspects of memory, Swansea, Wales, Aug. 2-8.

Guillermo Ferraudi, associate professional specialist in the Radiation Laboratory, presented a paper titled "Test of the Long-Range Electron Transfer Mechanism in Uranyl-Olefin Systems" at the 194th ACS national meeting, New Orleans, La., Aug. 30-Sept. 4.

Canon Astrik L. Gabriel, professor emeritus in the Medieval Institute and director of the Ambrosiana Collection, in his capacity as president of the U.S. subcommittee for the history of universities, represented the U.S. at the meeting of the International Commission for the History of Universities held in Prague, Czechoslovakia, June 3. The meeting was followed by an international congress organ-

ized by Charles University of Prague. The topic was "Humanities, Science, and Universities." Prof. Gabriel spoke on the "Medical Career of Two Paris Students: Martin Stephan from Bohemia and William Manderston from Scotland at the Beginning of the 16th Century," June 1. He also presided over the session of the communications of Japanese and Soviets scholars, June 5.

William G. Gray, chairman and professor of civil engineering, gave a lecture titled "Adaptive Meshes for Finite Element Simulations" for the National Institute of Public Health and Environmental Hygiene, Bilthoven, the Netherlands, in June.

Maureen T. Hallinan, White professor of arts and letters, delivered a paper titled "The Effects of Individual and Structural Characteristics in Charge of Social Networks" (along with Warren A. Kubitschek) at the annual meetings of the American Sociological Association held in Chicago, Ill., Aug. 17-21.

John J. Kozak, associate dean of science, director of the Concepts in Modern Science program, and professor of chemistry, presented a paper titled "Simulations of Energy Transfer and Trapping in Two-Dimensional Disordered Systems. Application to Picosecond Fluorescence Studies on Monolayers" at the Brussels conference on spatial inhomogeneities and transient behavior in chemical kinetics, Brussels, Belgium, Aug. 30-Sept. 4.

Catherine Mowry LaCugna, associate professor of theology, chaired two sessions of the Trinity Seminar at the annual convention of the Catholic Theological Society of America, Philadelphia, Pa., in June.

Jay LaVerne, associate professional specialist in the Radiation Laboratory, delivered a paper titled "Production of HO<sub>2</sub> in the Radiolysis of Water with Heavy Ions" at the third workshop on heavy charged particles in biology and medicine, Darmstadt, West Germany, July 13-15.

Craig Lent, assistant professor of electrical engineering, presented a paper titled "Effect of Continuum Resonances on Hot Carrier Transport in Quantum Wells" (coauthored with Wolfgang Porod, associate professor of electrical and computer engineering) at the fifth international conference on hot carriers in semiconductors, Boston, Mass., July 20-24.

John M. LoSecco, associate professor of physics, presented three papers titled "Investigation of Matter Enhanced Neutrino Oscillation Relevant to the Solar Neutrino Problem," "Search for Energetic Neutrinos from the Sun," and "Study of Neutrino Properties with Cosmic Ray Neutrinos" at the 20th International Cosmic Ray Conference in Moscow, U.S.S.R., Aug. 12. He was a guest of the Academy of Sciences of the U.S.S.R. at the International Symposium on Underground Physics held in the Balssan Valley of the Northern Caucasus, Aug. 16-18. At the symposium he presented two papers "Comment on Neutrino Observations of Supernova 1987A" and "Neutrino Physics from IMB."

Stephen R. Lundeen, associate professor of physics, gave an invited talk titled "Precise Measurements of Electric and Magnetic Fine Structures of High-L Helium Rydberg States" at a symposium on atomic spectroscopy and highly ionized atoms held in Chicago, Ill., Aug. 16-21.

Kevin M. Misiewicz, associate professor of accountancy, gave a presentation titled "Teaching How to Use Computers in Taxation" at the American Taxation Association Computer Conference held in Cincinnati, Ohio, Aug. 16. He delivered another presentation titled "Computer-Assisted Tax Research Options for Tax Education - Views of Vendors and Educators" at the annual meeting of the American Accounting Association, Cincinnati, Ohio, Aug. 19.

Thomas J. Mueller, director of engineering research and graduate studies and professor of aerospace and mechanical engineering, presented a paper titled "Low Reynolds Number Airfoil Performance Subjected to Wake Interference from an Upstream Airfoil" (co-authored with W. D. Michelsen) at the AIAA Applied Aerodynamics Conference, Monterey, Calif., Aug. 17. He also presented a paper titled "The Visualization of Low Speed Separated and Wake Flows" at the AIAA Atmospheric Flight Mechanics Conference, Monterey, Calif., Aug. 18.

P. Natarajan, professional specialist in the Radiation Laboratory, gave an invited seminar titled "Photochemistry of Cobalt Amine Complexes" for the department of chemistry at Purdue University, West Lafayette, Ind., Aug. 27.

Kathie E. Newman, associate professor of physics, presented a series of lectures on "Renormalization-Group Theory and Critical Phenomena" and "Deep Traps in Silicon-Germanium Alloys" at Tsinghua University, Beijing, People's Republic of China (PRC), May 15-21. She also gave a seminar titled "Order-Disorder Transitions in Semiconductors" for the physics department of Tsinghua University, May 14. She presented the same seminar for the physics department at the University of Science and Technology of China (Hefei, Anhui Province, PRC), May 26. Prof. Newman presented a talk titled "Effects of Ordering in III-V Alloys: Electronic and Structural Properties" at the NATO Advanced Study Institute on Alloy Phase Stability, Maleme, Crete, June 19. She also presented another talk titled "Effects of Ordering Ternary Alloys" at the Third International Conference on Superlattices, Microstructures, and Microdevices held in Chicago, Ill., Aug. 20.

Walter Nugent, Tackes professor of history, delivered a lecture on "Transatlantic Migration in the Late 19th Century" to the history department of the University of California at Berkeley in March. He also served on the selection committee for NEH-Huntington Library Fellowships for 1987-88 in March. He served as commentator for a session on the economic impact of the U.S. on Ireland 1922-1980 at a conference on Ireland and the U.S., in April. He spoke on the Northwest Ordinance of 1787 and the extension of federalism in North America at a conference on bicentennials of the U.S. and Polish constitutions, held at the University of Warsaw, Poland, in May.

Maria R. Olivera-Williams, assistant professor of modern and classical languages, gave an invited conference on the poetry of Mexican writer Jose Emilio Pacheco at the College of Humanities and Science of the Universidad de la Republica, Montevideo, Uruguay in July.

Daniel J. Pasto, professor of chemistry, attended the World Congress of Theoretical Organic Chemists in Budapest, Hungary, and presented a paper titled "Radical Stabilization Energies and the Captodative Effect," Aug. 12-15.

Larry K. Patterson, faculty fellow and assistant director of the Radiation Laboratory, delivered a paper titled "Effects of Molecular Organization on Photophysical Behavior. Pyrene-Lipid Diffusion and Excimer Kinetics in Spread Monolayers" at the 194th ACS national meeting, New Orleans, La., Aug. 30-Sept. 4.

John A. Poirier, professor of physics, gave three invited talks titled "The Time Structure of Charged Particles in Extensive Air Showers at 100 TeV," "The Angular Distributions of Charged Particles in Extensive Air Showers at 100 TeV," and "Project GRAND: A New Method to Detect Extensive Air Showers by Directly Measuring the Angles of Secondaries with Muon Identifications" at the International Cosmic Ray Conference held in Moscow, U.S.S.R., Aug. 3-15. He also presented two additional talks for colleague and coauthor who was unable to attend; they were titled "Improving the Angular Resolution of Air Shower Array Telescopes by Means of the Rossi Transition Effect" and "Separating Ultra High Energy Gamma Rays from Background Hadrons on the Basis of Absorption, Multiplication and Scattering of Shower Particles in Thin Sheets of High-Z Material" at the same conference.

Norlin Rueshshoff, professor of accountancy, was a discussant of three papers, "The Interrelation of Culture and Accounting with Particular Reference to Social Accounting," "Management Accounting Practices Statement Promulgation: An Interrelated Perspective," and "Accounting Information Infrastructure and Capital Market Inefficiency in Developing Economies" at the American Accounting Association annual meeting, Cincinnati, Ohio, Aug. 19.

Jonathan Sapirstein, assistant professor of physics, presented an invited talk titled "QED of Three Electron Systems" at a symposium on atomic spectroscopy and highly ionized atoms (SASHIA) Lisle, Ill., Aug. 17-21.

James H. Seckinger, director of the National Institute of Trial Advocacy and professor of law, gave a presentation on the training of trial lawyers to the Fireman's Fund Insurance Company in Chicago, Ill., Aug. 26. He was a faculty member and program coordinator for the NITA/Snell & Wilmer Law Firm Trial Advocacy Program in Phoenix, Ariz., Aug. 28-29.

J. Eric Smithburn, professor of law, made an invited presentation on "Prenuptial Agreements and the Law" for BBC television in London, England, July 21.

A. L. Soens, Jr., associate professor of English, presented a series of lectures, A Shakespeare Kaleiscope, for the Indiana Committee for the Humanities with the following titles: "The Evolution of Fencing During the Renaissance, and Its Theatrical Implications for Shakespeare's Stage," Michigan City, Ind., Aug. 1; "Handling the Rapier and Dagger as Tarleton, Burbage and Armin Probably Handled them on Stage," Muncie, Ind., Aug. 7; "Spanish Rapier, Italian Rapier, and English Sword and Buckler: Chauvinism, Fencing Styles and Romeo and Hamlet," Madison, Ind., Aug. 15; "Masters of the Noble Science of Defence and the True-Born English Fighter on Shakespeare's Stage," Vincennes, Ind., Aug. 22; "Rapier and Dagger in Modern Productions of Shakespeare: Fights Authentic, Dramatic and Safe," Terre Haute, Ind., Aug. 29.

Billie F. Spencer, Jr., assistant professor of civil engineering, was awarded a NASA-ASEE Summer Faculty Fellowship to the Structural Mechanics Branch of the NASA Lewis Research Center in Cleveland, Ohio, for the summer of 1987. He presented a paper titled "Reliability of Uncertain Oscillators (coauthored with Isaac Elishakoff, visiting Massman professor of civil engineering) at the ASCE Engineering Mechanics Division Speciality Conference, Buffalo, N.Y., May 20-22. He presented a paper titled "First Passage Failures of a General Class of Nonlinear Dynamical Systems" (coauthored with L. A. Bergman) at the International Union of Theoretical and Applied Mechanics Symposium on nonlinear stochastic dynamics engineering systems, Innsbruck, Austria, June 21-26. Prof. Spencer also presented a paper titled "Reliability of a Frictional System with Uncertainty" (coauthored with Isaac Elishakoff, visiting Massman professor of civil engineering) at the ASCE Structures Congress, Orlando, Fla., Aug. 17-21.

Nancy K. Stanton, professor of mathematics, gave an invited talk on "The Heat Equation and CR Geometry" during the special session on geometry and analysis on CR manifolds at the American Mathematical Society meeting held in Salt Lake City, Utah, Aug. 7. She also gave an invited talk on "LP and Lipschitz Estimates for the  $\bar{\partial}$ -Niemann Problem" at the meeting on partial differential equations in Complex Analysis in Oberwolfach, West Germany, Aug. 25.

Sompong Sucharitkul, visiting Short professor of law and faculty fellow in the Institute for International Peace Studies, was invited to the 21st annual meeting of the Institute of the Law of the Sea, held at the University of Hawaii, Manoa, Hawaii, Aug. 3-6. He participated in the panel discussions for Southeast Asia and for the South Pacific region on legal issues relating to the extended maritime jurisdiction of coastal states in the wake of the 1982 Convention on the Law of the Sea.

James I. Taylor, acting dean of the College of Engineering, was a panel member for a safety research panel on "Cost Effective Geometric Improvements for Safety Upgrading of the Horizontal Curves" at the U.S. Department of Transportation, Federal Highway Administration, McLean, Va., Aug. 4-5. He also participated in a symposium titled "Designing Safer Roads" at the National Academy of Sciences, Washington, D.C., Aug. 18.

Laurence R. Taylor, professor of mathematics, attended a conference on group actions on manifolds, and gave a talk titled "Spaces of Manifold Approximate Fibrations" at the Virginia Polytechnical Institute and State University, Blacksburg, Va., July 13-27.

Chris R. Vanden Bossche, assistant professor of English, presented a paper titled "Angels, Knights, Beasts, and Prostitutes: A Victorian Menagerie" at a conference on "Dickens, Women, and Victorian Culture" at the University of California, Santa Cruz, Calif., Aug. 8.

Robert P. Vecchio, chairman and Schurz professor of management, gave an invited presentation titled "Shortcomings and New Directions in Employee Motivation Research" at the national meeting of the American Psychological Association, New York City, Aug. 30.

Richard A. Williams, assistant professor of sociology, presented a paper titled "Peer Influence in Secondary Schools: A Nationwide Study" (coauthored with Maureen T. Hallinan, White professor of arts and letters) at the annual meetings of the American Sociological Association, Chicago, Ill., Aug. 17-21.

Eduardo E. Wolf, professor of chemical engineering, presented an invited lecture titled "Transient FRIR Studies of Catalytic Oxidation Reactions" at the 1987 Gordon Conference in Catalysis held at Sawyer College, New London, N.H., July 21-26. He presented an invited lecture titled "Surface Science and Catalysis" at the ASEE Summer Scholl for Chemical Engineering Faculty at Southeastern Massachusetts University, North Dartmouth, Mass., Aug. 11-15. He also presented a seminar titled "Characterization and FTIR Studies of Pt/WO<sub>3</sub>/SiO<sub>2</sub> Catalysts for the NO-CO Reaction" at the Instituto de Fística, Universidad Autonoma de Mexico, Mexico City, Mexico, Aug. 19.

# documen- tation

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## summer session commencement address

Were it not for the Special Olympics scheduled here beginning today, your graduation would have been next week, perhaps on Aug. 6. Had you asked me about the significance of Aug. 6, I would have recalled for you some of the events which happened on that day: the devastation of Hiroshima by atomic bomb; the death of no fewer than four popes, including, in 1978, Pope Paul VI; the death of St. Dominic (1221); and the death of Henry the Lion (1195); Aug. 6 is also the birthday of the Irish patriot, Daniel O'Connell (1775). On Aug. 6 the Church celebrates the Feast of the Transfiguration.

But today is July 31. Today is the Feast of Ignatius Loyola (which would have been a more useful fact if we were at a Jesuit college); on this day in 1498 Columbus sighted the Island of Trinidad on his third voyage to the Modern World; in 1886 the musician Franz Liszt died, and in 1898 Otto Von Bismarck died. In 1919 on this day Germany adopted the Weimar Constitution; in 1926, Afghanistan signed a non-aggression pact with the U.S.S.R.; in 1932 the Nazis came to power in the Reichstag, defeating the Socialist, Centrist, and Communist parties; in 1958 Nikita Khrushchev visited Beijing. The record books also indicate that on this day in 1957 Dr. W. J. Cook caught a 14 1/2 pound brook trout in Ontario.

We could argue about which day of the year surpasses all the rest in terms of human drama. On the other hand, on every day of the year there are many billions of births and deaths and other events which go unrecorded, unremarked upon, but which nonetheless shape each of us as directly as, and often more profoundly than, events listed in the chronicles of world history. On this day, a milestone for each of you, we think for a few minutes about all the days which mark our passage in time, where the sensational and spectacular are everywhere juxtaposed with the unexceptional and the uncelebrated.

Certainly some of us in this room will have a conspicuous effect upon humanity. Perhaps one of us is the next Edith Stein, or William Rehnquist, or Flannery O'Connor, or Karl Rahner, or Margaret Thatcher, or Pope John XXIII, or Dorothy Day. Perhaps some of you are destined to be remembered as slightly larger-than-life figures whose passion and heroism will become part of the collective memory of a community. Perhaps your life of quiet goodness will grow in stature through your early death. Perhaps after your death the rest of us will scrutinize your life for clues, for the trajectories of grace which sustained you in the terrible discipline of love. What was it about you, we will wonder, which enabled you willingly to undertake personal sacrifice for the sake of life?

At every moment we are creating our personal and social history. Sometimes we do so with courage and charity and at great personal cost. At other times we contribute by default, by failing to move boldly and diligently against the many forces which sunder or dehumanize or defeat us. Much of the time we feel rank uncertainty about how to discriminate among competing energies and opinions and resources, and how to marshal those energies and resources.



How do we avoid despairing because we will never make it into the record books, and thinking that only what is included in the written record is important? How does our private dream for ourselves, whether grandiose or paltry, fit within the wider human context which is already inscribed with its own symbols and cultural thought-forms and collective yearnings? How, in short, do we acquire a realistic sense of ourselves and our proper place in various domains -- the personal and relational, the ecclesial, the incarnational, the social-historical, the intellectual, the spiritual?

I take it that the degree you have just completed forms part of the process of your own coming into realism about yourself. You might have begun college with the desire to be a mathematician but found yourself studying literature with greater intensity and pleasure and therefore you majored in it. Or you might have begun law school with the dream of succeeding in corporate law but along the way you found you had a real gift for advocacy work. Or, you might have been working in the public sector for several years but found yourself searching for ways to convert your expertise to serve the underprivileged.

Each of you has been venturing after that which best "fits" you. Your private dream has been revised and purified by listening to those around you as well as attending to your own deepest longings. In all likelihood, in the process you have been negotiating between an underestimated and an overestimated vision of yourself.

For example, there are undoubtedly some here who feel that, legendary stories notwithstanding, we each have what really amounts to a small life, a relatively inconsequential span of time which we must simply endure and "try to make the best of." It is easy enough to conclude that "the big world out there" is scarcely affected by my existence. Oh, perhaps from time to time we sign a petition about Nicaragua or abortion, but the obvious ineffectuality of every such gesture merely confirms what we had already suspected: action on behalf of others will always seem trivial, even if it succeeds in easing one's conscience. How easily we can feel diminished by the proverbial weight of the world!

In contrast to those whose private dream is too narrowly imagined are those who have marked out for themselves what they hope will be a dazzling career in law, or ideas, or aesthetics, or money, or ministry. Some people imagine themselves capable of single-handedly rewriting the welfare laws, reforming the clergy, devising a new metaphysics, revamping the international monetary system, surpassing Mozart, discovering a cure for AIDS.

By avoiding the extremes of "I can't do anything" and "I can fix it" you have in effect been discovering and pursuing your "vocation."

It will not surprise you to hear a theologian use the language of vocation. But please do not be alarmed or put off: I count myself among those who are uncomfortable with most discussions of vocation. Much of the Christian tradition has been singularly unimaginative on the subject, reducing vocation to lifestyle.

Properly speaking, there is only one vocation which we all share in common: the vocation to holiness. Holiness is not otherworldly, not insipid, not the destiny of just a few. It is, if you will, an individually stylized invitation issued to each of us to be what we were created to be. Holiness is grace made tangible within the entirely unique circumstances which govern and shape your life. Holiness comes about through conformity to the very deepest truth about yourself, whatever that may be.

Let it be clear that I am not simply giving you a pietistic version of the United States Army marketing campaign slogan, "Be All That You Can Be!" This motto could, of course, be interpreted as a self-serving and self-aggrandizing mandate.

Instead, I want to suggest that being our best selves, or being that for which we were made, is equivalent to being-for-others. Orientation to the other, service to the other, love for even the enemy, entails, among other things: cultivating a profound reverence for creation and taking delight in being its stewards; learning tolerance and inclusiveness, learning that there are many ways of embodying and expressing humanity, and learning this not in the abstract but by listening to those whose experience we do not share; finding the courage to heed the voice of those among us who can speak only in the language of silence, or pain, or resistance, or resignation; looking for the finger of God in every moment, in every person, in every situation including those where God seems most absent.

These attitudes are the hallmarks of the Christian's vocation to the world. The invitation to one's vocation means to see oneself realistically, within the limits of one's own person and history. An aspect of the unrealism of modern life is to feel that if we aren't doing everything about everything, then we're doing nothing. Or, to feel that if we put our signatures on the line, we are exempt from putting our lives on the line.

One version of unrealism forgets that each person is a unique and unrepeatable occurrence in creation; each person is therefore essential not just to creation and human history but essential also to the very being of God. The other version of unrealism forgets the "we," the community of persons, which makes the "I" possible in the first place.

An individual's vocation is kindred to a community's sense of mission. Mission describes specific identity, or, the content of a particular vocation. Institutions have missions. The University of Notre Dame identifies its mission "to be influential in the enrichment of culture, society, and the Church" by educating women and men like yourselves. The University's vocation, so to speak, is to embody the best of the Catholic vision which perceives God present in all things, which looks for the activity of God through persons, events and things, and which focuses on communion as the way to God.

We have arrived at the point where your solitary dream for yourself, or an institution's sense of its own identity, intersects with the Christian idea of vocation and mission as service to others.

As I noted at the beginning, what affects us most immediately usually is not the peace treaty nor even, sometimes, war. (I counted no fewer than eleven declarations of war on July 31.) Rather it is those ordinary ways we have of being with each other, those gestures of kindness or hostility, compassion or indifference, which either encourage or dishearten us from being our best selves.

Fidelity to vocation and mission is the criterion of what is historically meaningful. Although it may never be recorded anywhere in the history of creation that you were a much beloved healer who touched souls as well as skillfully mended bodies; although it may not be recorded that you were a woman or man of gentleness and insight who brought hope into broken situations; or that you who appeared from the outside to be quite ordinary were in fact a parent who made extraordinary sacrifices for your children; or that your discretion and silence prevented further destruction of another's character; or that your charitableness and tolerance created an opportunity for many to feel included -- although most of what we do will not be recorded, you will have been eminently successful and your life will have been absolutely decisive in the history of the world and humanity.

In the opening words of this ceremony you were promised honor for learning in faith, and then you were charged to turn your scholarship to service. By discovering and pursuing your vocation you will, I am certain, find that you are most profoundly happy when you are of service to others. And insofar as you have pursued this, the deepest truth about your own humanity, you will also have been holy.

In conclusion, may I say how much I admire your accomplishment which we celebrate today. Congratulations to you all.

# academic council minutes

## april 2, 1987

Members present: Father Hesburgh, Father Malloy, Professors O'Meara, Schmitz, and Gordon, Deans Castellino, Hofman, Link, Loux, Reilly, and Taylor, Father Blantz, Professors Aldous, Crosson, Derwent, Dutile, Etzel, Jerger, Marley, Shephard, Swartz, Wegs, and Wittenbach, Dr. Sereiko (for Mr. Miller), Ms. Pec, Ms. Weaver, Mr. Molnar, Ms. Oates, and Ms. Pieronek.

Observers present: Father Beauchamp, Mr. Conklin, Mr. Dellelce, Ms. Finch, and Mr. Gregory.

### 1. Honesty Policy and Honor Code

Provost O'Meara announced that he has appointed a subcommittee consisting of Dean Castellino, Dean Loux, Father Williams, and Mr. Wurth to formulate an experimental plan for an honor code. The plan will be presented to the Executive Committee and considered for the agenda of the next Council meeting.

### 2. College Reports on Advising and Counseling of Undergraduate Students

Each of the Deans of the four undergraduate colleges reported on their college council deliberations, discussions, and recommendations regarding the advising and counseling of undergraduate students. A copy of the written report from each college was sent in advance to all Academic Council members.

**College of Science.** Dean Castellino pointed out that the majority of undergraduate students in the College of Science are preprofessionals, and that most of the others plan to attend graduate school. Consequently, job seekers at the four-year level are small in number. In addition, because the students generally are enrolled in small classes in their junior and senior years and have close contact with faculty members, advising is frequently handled informally through casual faculty/student contact. To facilitate the transition from the freshman year, Professor Freeman has been placed in charge of the advising of sophomore preprofessional students. Father Walter is in charge of junior and senior advising.

Mr. Molnar pointed out that the sophomore year is the key year for advising in the College because classes in that year have relatively large enrollments, and informal contact with faculty is not always possible. He added that the new efforts for handling preprofessional students presumably will help the situation.

Professor Crosson inquired about a statement in the written report that the College of Arts and Letters considers the language requirement satisfied if a student takes both semesters of a foreign language at Notre Dame during the summer session. He expressed concern about the advisability of having students follow this option. Dean Castellino responded that this is simply an accepted and approved option, but not an encouraged one.

Father Blantz asked if any special advising is available for minority students. Dean Castellino replied that nothing special is provided, but owing to the small numbers involved, special individual attention is given to minority students. Professor O'Meara reminded the Council that special assistance for minorities is available through Dean Hofman's program during the summer preceding the freshman year and during the first year. Father Hesburgh elaborated on this program. Dean Hofman described the success of that program, saying that the students who have gone through it seem to be happier with their situation at Notre Dame and to be better adjusted.

Professor Aldous commented about the dearth of faculty role models for women students and asked what the College is doing about advising women particularly. Dean Castellino responded that no special or formal program is in operation, but an ongoing awareness of the situation exists, and attention is given to it informally and individually.

Professor Swartz asked if the students are forced to contact an assigned advisor. Dean Castellino said that some departments mandate contact. Professor Derwent commented that some students in Mathematics never see an advisor.

Father Hesburgh asked about how much advise is given to preprofessional students on selecting between the alternatives of the ALPP and the Science program. Dean Castellino said that special advising is given for these programs by Fathers Austgen and Walter. He added that the science option actually contains a minimum of science -- in keeping with the current claim by most deans that not much science is necessary in such programs. Most students, however, take the science option. Dean Loux agreed that the difference between the two options are slight.

College of Engineering. Acting Dean James Taylor stated that most engineering students have already made a decision on their major field prior to entering the sophomore year. In addition, the structured nature of the engineering curriculum diminishes the need for advising on those a description of specific departmental practices, and added that Assistant Dean Jerry Marley serves as the overall College coordinator for advising and counseling and handles special problems and irregularities.

The School of Architecture administers routine advising through an administrative assistant. Other special advising in the School generally occurs naturally through close student/faculty contact in seminar and studio courses.

Dean Taylor touched on other highlights from the College study.

- The present structure could serve advising and counseling purposes well. (Advising in this context refers to guidance given to students in selecting courses and meeting curricular requirements; counseling, to giving recommendations on careers, majors, etc.)
- Many faculty do not feel qualified to provide counseling.
- Some faculty feel that many students simply want forms signed, nothing more, and that registration processes contain too much run-around.
- Access by faculty to student records is not easy.
- Expectations set by advising practices during the freshman year can not possibly be met in succeeding years, and the resulting student frustrations are aggravated by large enrollments in the sophomore courses.

The Engineering College Council proposed the following actions.

- Better information should be provided to faculty and students regarding advising and counseling procedures and the expectations and responsibilities involved. Such information could be disseminated in the first sophomore engineering course and in meetings with the freshman intents during the spring semester of the freshman year.
- Schedules of faculty advisors should be made known to students, and careful attention should be given to honoring those schedules by faculty and students.
- Information about courses, curricula, University requirements, etc., should be provided to all faculty in the form of handout material.

Ms. Pieronek commented that student complaints about inadequate advising and counseling in the College of Engineering are valid. She said that professors often are not available at scheduled times, and they show little or no interest in the students as individuals. The students give up on trying to contact them and simply sign the forms themselves. She asked how the College plans to implement some of the proposed actions, and if the College has given any consideration to appointing full-time advisors. Dean Taylor answered that no consideration has been given to appointing full-time advisors because the College does not feel the need for such. He denied that the general situation is as bad as that described by Ms. Pieronek. Professor Schmitz commented that the situation described by Ms. Pieronek probably applies only to a certain part of the College, particularly the Department of Electrical and Computer Engineering where an enrollment surge combined with a national shortage of faculty to fill available positions has led to a very unfavorable faculty/student ratio. He added that there is a limit to what can be done in a short period of time about such temporary situations, and he repeated that conditions in the other departments are more favorable. Professor Aldous asked if some advisors could be hired to help through these temporary difficulties. Dean Taylor said that qualified advisors probably could not be hired, and that really this type of service is not heavily sought. Ms. Pieronek said that students would seek such service if it were available to them.

Professor Crosson remarked that he found the College's written report to be candid and informative. He inquired about a statement in the report that sophomores, in groups of 40 or more, were assigned to advisors in Electrical and Computer Engineering. He commented that this seems to be an excessive number. Dean Taylor and Professor Schmitz replied that the number 40 was probably a temporary peak that occurred in a year when student numbers surged and faculty numbers were low. Both numbers are now changing to make the ratio more acceptable. (A subsequent check revealed that the current number of advisees for a single advisor of sophomores in Electrical and Computer Engineering varies between 18 and 22.)

Father Hesburgh commented that it is unacceptable that faculty would post hours, make appointments and then not honor them. He said that students should be assured of being able to contact faculty when they have a need to do so.

Professor Schmitz stated that, in his opinion, the first recommendation by the Engineering Council is the most important. Most difficulties and frustrations can be resolved if faculty and students are informed about, and understand, procedures, policies, limitations and responsibilities surrounding advising and counseling in the College.

Professor Wittenbach said that the Department of Accountancy hired a law student, a former undergraduate in the department, to advise students and that this had worked very satisfactorily. He suggested that a similar strategy might be considered by the College of Engineering.

Dean Hofman recommended that the College make better use of the spring meeting during the freshman year to inform students about advising and counseling practices and procedures.

**The College of Business Administration.** Dean Reilly, giving an overview of the College situation, pointed out that students entering their sophomore year in the College do not go into a particular department but are in the general College program. Advising in the College is done by specialists. For example, one individual takes care of the advising of sophomores. (Dean Reilly also distinguished between advising and counseling in the same manner suggested earlier by Dean Taylor.) That individual often gives help on the selection of the major department and refers the student to department chairman when necessary. Department chairman, Assistant Chairman in the Department of Accountancy, handle the advising of juniors and seniors.

Counseling of students is handled by informal student/faculty contact and through student organizations. Outside visitors to the College speak with the students about job opportunities. MBA students assist with counseling, but emeriti faculty are not being used presently.

At the end of their second and third year, students receive a checklist of courses from the Associate Dean spelling out which requirements have been satisfied and which have yet to be met.

The College plans to get help from the College of Arts and Letters for elective selections, and it plans to bring in more outside speakers in conjunction with student organization activities.

Ms. Pec commented that advising in the College seems to be good and thorough, and that soliciting the help of the graduate students in the process is a good idea.

Dean Hofman stated that certain freshman year advisors who are seniors in the College of Business Administration have expressed satisfaction with advising and counseling in the College.

Dr. Gordon complimented the College's practice of informing students of their status regarding credits and requirements at the end of each year. Dean Taylor agreed and added that the College of Engineering also conducts an auditing of courses for each student and sends a checklist to students who are entering the senior year.

Ms. Weaver commented that the College of Business Administration seems to have a good system and wondered if it would be possible to have central campus-wide advising.

Professor O'Meara suggested that when the student-to-faculty ratio surges, there could be a central college office to handle the surge. He felt that much of the grind of advising and registration procedures may disappear eventually with computerization of the process.

Reflecting on earlier comments, Professor O'Meara asked Ms. Pieronek if she and other students were able to get their questions answered when they sought faculty assistance. Ms. Pieronek responded that answers were given when faculty could be found. The Provost then asked about the nature of the questions in most instances. Ms. Pieronek said that some, but not all, are about curricular technicalities.

Professor Jerger pointed out the reality that some faculty are good and diligent advisors; some are not. He also pointed out that some students fail to show up for appointments with faculty. Some do not even sign up for appointments when given the opportunity. He added that advising on elective courses outside the college is particularly difficult. Dean Reilly replied that the proposed link with the College of Arts and Letters is aimed at overcoming that difficulty.

College of Arts and Letters. Dean Loux told the Council that consideration of the subject of undergraduate advising in a research university within the College of Arts and Letters led to formation of a proposal and a grant. A follow-up committee, chaired by Professor Thomas Werge, produced a series of recommendations. The committee concluded that the procedures for handling junior and senior advising in the College is satisfactory. The routine advising of some 800 sophomores is now handled by two assistant deans who have the part-time help of others on the Dean's staff.

More difficult than course advising is academic counseling, which is complicated by the fact that there are fifteen departments, many majors, concentrations, second majors, a London program, etc. Also, the freshman year intimacy yields students who seem to have difficulty adjusting to the less formal advising and counseling procedures encountered in the sophomore year.

The first recommendation from the Committee is that a collegiate fellow, supported by endowment funds, be appointed to coordinate advising and counseling and to deal with special problems. Dean Loux reported that the appointment of such a collegiate fellow with released time will be announced soon, but there will be no endowment for the appointment.

The second recommendation by the committee was intended to highlight the significance of advising and to recommend that faculty activity in this regard be taken into account as part of the advisor's teaching record in all renewal and tenure procedures.

Five other recommendations from the committee address the major difficulties that students encounter regarding advising in the sophomore year. They include the recommendation that social space be provided in the planned classroom building and other buildings for closer and student/faculty contact, and that alumni in various fields of work be invited to the campus to speak to current students about various matters -- such as relationships between undergraduate majors and post-graduate work, between liberal education and technology, between individual and corporate life. The College Council has endorsed these recommendations and some follow-up is taking place.

Professor Pec expressed agreement that social space is crucial, and the faculty senate feels strongly on this point. Professor Shephard felt that the new classroom building may be ineffective in promoting this contact because of the intended location of the building. Dean Loux pointed out that faculty and students from all colleges will be in the building, and the students will probably tend to congregate before and after classes if space is provided. Professor Shephard felt that the faculty will probably disperse after classes to return to their home buildings.

Father Hesburgh asked if increased student/faculty contact has been noticeable since the opening of Decio Hall. Dean Loux doubted that much contact has occurred because the traffic flow in the building is not conducive to it. Professor Swartz said that he frequently observes students and faculty in informal contact on benches in the building. Dean Loux said the foyer and the second floor seem to be good areas for faculty/student conversations and are used for such.

Professor Derwent said that he has had difficulty finding the appropriate Arts and Letters courses to recommend to students. He asked if faculty are made aware that a synopsis of courses is prepared by the College of Arts and Letters. Dean Loux responded by saying that it was his understanding that synopses of courses are sent to all department chairmen. Father Hesburgh asked if a special all-inclusive catalog could be distributed. Dean Loux said that there are some distributions presently and that distributing a special catalog would be a possibility, perhaps limited by available funds. Professor Derwent asked about the possibility of devoting an issue of the Observer to course descriptions. Dean Loux said he would have no objection.

Mr. Gregory commented that Dean Loux had correctly described the difficulty of advising and counseling in the sophomore year. He added that the students would find it helpful if there were one resource person for them to contact.

Mr. Wurth asked if a group of faculty in the College would be identified for general contact by freshmen. Dean Loux answered that such an arrangement is not possible, nor is it intended in the recommendations. However, each department will provide clearing-house information and a freshman-year contact person.

Father Hesburgh concluded this part of the meeting by suggesting that the Provost and the four Deans organize appropriate follow-up actions. He added that the Academic Council might want to address this matter again in some later year.

### 3. Changes in Council Membership

Professor O'Meara announced the following changes in membership of the Council. Ellen Weaver, Department of Theology, has been appointed to be the substitute for Kathleen Weigert who is on leave this semester. Jay Robert Wegs, Department of History, has been appointed for this semester in place of Moira Geoffrion. Edward Jerger, Department of Aerospace and Mechanical Engineering, has replaced elected member James Taylor who becomes an ex officio member as Acting Dean of Engineering. Former Dean of Engineering, Roger Schmitz, now in the position of Vice President and Associate Provost, is ex officio secretary of the Council.

### 4. The Law School Grading Proposal

Dean Link submitted, for Council approval, changes in the Law School grading system which would delete section 22.3 of the Academic Code entirely and replace sections 18.2 and 18.3 with new versions shown below.

18.2 Grades for foreign Language competency examinations, candidacy examinations, and dissertations shall be "P" (passed) or "F" (failed).

18.3 Grading in the Law School is governed by the Hoynes Code.

The changes were approved without dissent.

5. For purposes of Council information and discussion, Father Hesburgh cited the recent signs of a resurgence of racial prejudice and racial problems on university campuses in the country. He added that Notre Dame may not have had a problem in this regard simply because there are not many black students here -- another problem in itself. He asked if members of the Council were aware of any problems in this regard on our campus. The following comments were offered by the students in attendance.

--If there are any racial incidents of note, they seem to be concentrated around athletic events, where it is more difficult to distinguish between racial feelings and the usual competitive rejections on the part of participants and spectators. Signs of such incidents occur in conjunction with bookstore basketball games.

--Racial problems are not evident in the graduate school.

--Segregation is obvious in the dining halls where black students tend to occupy tables together. This does not seem to be a problem, but tensions may be increasing.

--The only obvious problem in this regard in the MBA program is the shortage of blacks.

Father Hesburgh added that unquestionably we need more black representation on the campus. He described the scholarship support that is provided for black students at Notre Dame.

Dean Reilly said the residence halls, completely integrated as they are, foster interracial friendships. In that regard, he felt that the situation during the academic year is quite different from the summer when black athletes tend to predominate in the residence halls, creating a de facto segregation which is conducive to racial tension.

Professor O'Meara commented that a committee to study faculty and student minority matters has been appointed with Professor Nathan Hatch as chairman. He feels that no special action other than this committee study is necessary on the campus at this time.

Father Malloy added that he also feels that no other steps are necessary. Some issues seem to simmer, reinforced perhaps by basketball activities, but the situation does not call for campus-wide concern.

6. Father Hesburgh called for adjournment. The next meeting is scheduled for Tuesday, April 28, 1987, at 3:30 p.m. in Rooms 100-102-104 of the Center for Continuing Education.

Respectfully submitted,

Roger A. Schmitz  
Secretary to the Academic Council

# academic council minutes

## april 28, 1987

Members present: Father Hesburgh, Father Malloy, Professors O'Meara, Schmitz, and Gordon, Deans Castellino, Hofman, Link, Loux, Reilly, and Taylor, Father Blantz, Professors Aldous, Derwent, Dutile, Etzel, Marley, Shephard, Swartz, and Wegs, Dr. Madden, Dr. Weaver, Mr. Miller, Ms. Pec, Mr. Molnar, Ms. Oates, and Ms. Pieronek.

Observers present: Monsignor Francis Sampson, Father Oliver Williams, Professors John Gilligan and George Lopez, Dr. Robert Johansen, Mr. Richard Conklin, Mr. Dellelce, Ms. Finch, Mr. Gregory, and Mr. Swain.

### 1. Experimental Honor Code

Provost O'Meara reminded the Council that he had appointed a subcommittee, consisting of Deans Castellino and Loux, Father Williams and Mr. Wurth, to formulate an experimental plan for an honor code. The Executive Committee reviewed the plan and recommended it for discussion and presentation to the Council.

Fr. Williams presented the plan, which was sent in advance to all Council members and which is included as an attachment to these minutes. The plan, calling for a four-year transition period beginning in January, 1988, involves certain freshman courses and upper-class courses approved by the relevant Dean and conducted under the full Honor Code. All faculty and students participating in the experiment will contribute to an evaluation session with the Office of the Provost shortly after the end of the semester of involvement. The results of these sessions will be reported annually to the Academic Council, and a decision on campus-wide adoption of the Code will be made by the Council in April 1992.

In answer to a question by Professor Shephard, Fr. Williams, explained that "full Honor Code" refers to the entire plan described in parts I through IV of the distributed (attached) copy. He added that for all courses not approved for this transition plan, the present published honesty policy will be in effect.

Dean Taylor asked for a clarification of who is the "appropriate dean" involved in the procedures. The conclusion of some discussion was that the appropriate dean to whom a violation is reported is the dean of the college in charge of the course.

Some concerns were expressed about the lack of definiteness in the description of parts of the plan and of a clear indication of what it will prove. (For example, some statements are vague. What specifically is a violation?) Fr. Williams and other members of the subcommittee pointed out that more specific guidelines should be handled within courses. The intention at this stage was to give some latitude. The proposed plan is a starting mechanism; experience and the reporting processes will guide the future course. Dean Link pointed out that since we must be able to defend the imposition of penalties, everyone involved should be made aware of the need for clarity and definiteness.

The following statements summarize additional questions, answers and discussion.

The experimental period will serve to publicize, and cause an awareness of, the honor code. It will be a catalyst for discussion and will educate the campus community about the positive and negative aspects.

If the students do not support an honor code eventually, we will not likely adopt one.

No courses need be excluded a priori from the experimental plan if instructors and students desire to participate.

Freshman-year participation will be mandated: others will be on a voluntary basis. Dean Hofman said that incoming freshmen will be appropriately advised. Their consent will be implied by their confirmation of acceptance of the admission offer.

Calling attention to item IV of the Program Guideline, Professor O'Meara announced that Fr. Williams will be the overseer of the program in the Office of the Provost.



Fr. Hesburgh said that the experimental phase should teach and prove many things and perhaps enable us to grow into a full-fledged University-wide honor code by the University's sesquicentennial year.

The proposed plan was approved by voice vote without opposition.

2. Proposed Changes in Academic Article IV, Section 3g: The University Committee on Computing.

Professor Schmitz proposed that the present version of Academic Article IV, Section 3g, be replaced by the following version:

Subsection (g) The University Committee on Computing and Information Services

The University Committee on Computing and Information Services consists of the Assistant/Associate Provost in charge of computing, who chairs the committee, such of the Administrative staff of the University's computing services as the Assistant/Associate Provost shall designate, the Director of University Libraries and 15 others: one elected by and from the regular faculty of each of the Colleges, from the Library Faculty, three appointed by the Vice President for Business Affairs, two student representatives, and four appointed by the Assistant/Associate Provost in charge of computing. Student members are selected annually according to procedures approved by the Committee. All appointed members serve one-year terms; elected members serve staggered, three-year terms.

The Committee considers policies, practices, and procedures relating to University computing and information services and advises the Assistant/Associate Provost concerning user's needs for, and the direction of, academic and administrative computing.

In presenting this proposal, Professor Schmitz pointed out that in addition to a change in the title of the committee, the principal change is the membership structure which would increase the total number from the present level of 10 to about 20. The additions include the Director of University Libraries, appointments from the administrative staff of campus computing services and other appointments (up to four) to be named by the Assistant/Associate Provost in charge of computing. Professor Schmitz pointed out that the additional appointments were necessary in order to insure balance from year to year and to make certain that membership contained the appropriate experience and expertise to deal with the scope of each year's agenda. He added that the proposed restructuring of the committee is a follow-up of one of the recommendations of the Task Force on University Computing.

The proposal was approved without dissent.

At the suggestion of Fr. Hesburgh, Prof. Schmitz gave a brief description of the Task Force report, a summary version of which was submitted to the Provost in December 1986. (A full report was submitted in April 1987.) The report had been distributed widely on the campus, and the Council indicated a desire to have it published in Notre Dame Report.

3. Faculty Senate Proposal to Amend Academic Article III, Section II, Leave of Absence.

Professor O'Meara briefly described this proposal for a parental leave policy, and he announced that by a 4-to-1 vote the Executive Committee concluded that the issue was in the line of fringe benefits and, as such, did not fall within the purview of the Academic Council. He added that the consensus of the Executive Committee was that the situation should nevertheless be brought to the attention of the Council.

Fr. Hesburgh stated that appropriate channels should be available for any issue. Fr. Malloy commented that he is appointing a task force on Marriage, Family, and Other Life Commitments which will look into a number of closely related issues. He felt that looking into this particular matter in the context of the broader charge of the task force is preferable to considering it as a stand-alone matter. He stated that he intends to call this proposal to the attention of that task force for its consideration.

Ms. Pec said that this move would be acceptable to the Faculty Senate, but she expressed the concern that beyond the task force study there may be no official forum for a presentation and discussion of such matters. Fr. Hesburgh said that such matters would usually come to the attention of the President who would route them to the appropriate body.

#### 4. Proposal to Establish a Degree of Master of Arts in Peace Studies.

Fr. Hesburgh gave introductory comments and background information on this proposal. He pointed out that agreements have been reached whereby graduate students from Soviet Union, People's Republic of China, America, Europe, Japan, and perhaps from Third World countries would work in Notre Dame's Institute for International Peace Studies. Therefore, it is important at this time to bring the proposal for this degree program to the Council. He pointed out that an undergraduate program is already in operation.

Prof. Gordon presented the proposal, copies of which were distributed to Council members in advance of the meeting. He informed the Council that the proposal received approval by unanimous vote of the Graduate Council at its 220th meeting on April 15, 1987.

Prof. Gordon stated that the Master of Arts in Peace Studies would resemble most closely the degree activity in the Medieval Institute. He expressed the goals of the new program as deepening the scholarly basis for teaching about, extending our understanding of, and providing a public forum for certain subfield in Peace Studies. He added that the Graduate Council found the proposed degree program to contain all of the elements common to other masters programs in the Graduate School.

Some 12 to 15 students are envisioned initially in the total program; however, not all of these will be degree seeking. A total of 20 to 25 participants might be expected as the program matures.

Prof. Gilligan gave further information about the background and development of the proposal program. He pointed out that 200 or more institutions in the U.S. have some form of peace program and that federal funding was a possibility.

The proposal was approved by voice vote of the Council without dissent.

#### 5. Thanks and Fare Thee Well, Fr. Ted

Noting that this is the last Academic Council meeting over which Fr. Hesburgh will preside, Prof. Dutilleul expressed the desire that the Council's last formal action under Fr. Ted's stewardship be the acknowledgement of his outstanding contributions by accepting the following resolution:

"Be it resolved on this the 28th day of April, 1987, at Notre Dame, Indiana, that the Academic Council of the University of Notre Dame expresses its deep gratitude and warm affection to you, Father Ted, in recognition of the unparalleled leadership you have exercised during your presidency of the University. Your values, your vision and your vigor have permeated and inspired our Campus and the world beyond it. Be assured, Father Ted, that we will both remember you and miss you."

The resolution was approved by acclamation.

Prof. Goerner stated that his attempts to formulate an appropriate resolution for the final meeting at which Fr. Ted would preside had met with difficulty because there seemed to be nothing to say that has not already been said and heard. He suggested a round of applause for Fr. Ted which was readily provided by the Council with enthusiasm.

In final remarks, Fr. Hesburgh commented that Council has been a dependable and wise body through the years, and he expressed his gratitude.

Respectfully submitted,

Roger A. Schmitz  
Secretary to the Academic Council

#### **appendix**

Recognizing that an Honor Code can play an important educative role in the University, fostering the moral growth of our students, a four-year program moving toward a full Honor Code is hereby begun. During this four-year transition period, beginning in January 1988 and ending in January 1992, certain freshman courses and upper-class courses approved by the relevant Dean will be conducted under the full Honor Code. All faculty and students

participating in this experiment will contribute to an evaluation session with the Office of the Provost shortly after the end of the semester of involvement. The results of these evaluation sessions will be reported annually to the Academic Council so that appropriate determination and/or modifications may be made. A final decision on the full Honor Code will be made by the Academic Council in April 1992.

#### Program Guidelines

I. An Honor Code is understood to consist of the following five features:

1. unproctored examinations;
2. a pledge signed by each student indicating willingness to be governed by the Honor Code and a signed pledge accompanying submission of work indicating that the student has neither given nor received unauthorized aid;
3. a requirement that a student having knowledge of an Honor Code violation take action either by confronting the offender and informing the professor of the class or by reporting the violation; a student who does not so act on a known violation is considered to be in violation of the Code;
4. some degree of student participation in investigation and determination of guilt or innocence, and
5. a system of sanctions.

II. Certain freshman courses designated by the Dean of the Freshman Year of Studies will be conducted under the Honor Code. Faculty members teaching upper-class courses may volunteer, with the approval of their Dean, to use the Honor Code. All courses taught under the Honor Code will be so designated on the listing of available courses provided for pre-registration. Faculty teaching courses under the Honor Code will be expected to define standards of honesty for their students and to explain the reporting procedures and the system of sanctions.

III. Any violations of the Honor Code are to be reported to the appropriate Dean. The Dean will then refer the violation to the Honesty Committee. No new Honesty Committees will be constituted to adjudicate Honor Code violations. The only role for the Honesty Committee, however, is to determine whether the alleged violation has occurred. The sole penalty for violations of the Honor Code is an "F" in the course. Notice of the awarding of such a penalty will be filed in the Office of the Provost. The penalty for a second instance of an Honor Code violation, as recognized by submission to the Honesty Committee, is dismissal from the University. The possibility of readmission after dismissal and the timing of any such possibility will be determined by a committee of the Deans.

IV. The Office of the Provost shall oversee a comprehensive educational program informing the community of the progress of the experiment and stimulating discussion of the concept of an Honor Code.

## university libraries minutes june 3, 1987

The meeting was called to order at 4:05 p.m. by chairperson Harvey Bender in the Conference Room of the Administrative Offices, Hesburgh Library. Also present were committee members Joseph Blenkinsopp, John Lucey, Bill McDonald, Robert C. Miller, James Robinson, W. Robert Scheidt, and secretary Vicki Maachouk.

The minutes of the meeting of May 13, 1987 were approved as modified.

The results of the elections for representatives from the Colleges of Business and Science were announced. Bill McDonald was reelected to the committee from business and W. Robert Scheidt was reelected to the committee from science. Their terms will expire June 1990.

Robert Miller gave his report as Director of Libraries:

1. Network -- The bisynchronous network is up in the Hesburgh Library and is being tested in the Cataloging Department. The asynchronous network will be up as soon as the cable between the Hesburgh Library and the Computing Center is replaced.
2. Automated system -- The Libraries' records are up and running in the system. When an additional 300,000 are replaced by the vendor and are loaded, there will be 650,000-700,000 records in the automated catalog. Now the libraries' programmer is beginning work on keyword/Boolean have been prepared and will be tested with staff training sessions in the technical services mode on June 15. The advanced session will follow sometime later. The public catalog, UNLOC, should be up for use by Aug. 1, 1987. There will be fully operational terminal for demonstration at the Reference Desk during Alumni Weekend.
3. Intra-university cooperation -- Mr. Miller has invited the heads of campus information/media resource units to lunch this week to discuss the future listing of their materials in UNLOC and the possibility of a cooperative effort to increase awareness across campus and among faculty of their services.
4. Wilsondisc -- This CD ROM index will be available this fall. It includes the Business Periodicals Index, Humanities Index, Social Science Index, and the Readers' Guide. It will replace the CD ROM product, Infotrac, and the microform Magazine Index, which are currently in the Reference Department. The product will also allow unlimited online searching of the indexes which are included.
5. Graduate Council Review -- Maureen Gleason has been appointed as coordinator of the libraries' self-study in preparation for the external review. This is analogous to the preparations by academic departments for external reviews. A survey of users -- students and faculty -- will be conducted in September and in November three external reviewers will visit campus. This is the first external review of the libraries by the Graduate Council. Miller has found only one other campus, the University of Utah, at which such a review was conducted. The results will be given to the Graduate School in the spring. Prof. Bender said Vice President Gordon will select the external reviewers. The committee and Mr. Miller expressed hope that constructive results will come out of the review.
6. Serials -- the libraries' list of potential cancellations of serial titles was sent to departments for review and the committee determining the final decisions will finish its work in the next few weeks. Departments and liaisons were also asked to look at new serial subscriptions and consequently \$10,000 will be transferred to the serials budget for new serials.
7. 1987-88 Budget -- University funded units went up modestly, while endowments have all gone down because of lower earnings and no carry-over from last year. Prof. Bender asked if Mr. Miller foresaw a period of retrenchment ahead. Mr. Miller said he didn't think the situation would get desperate, but added that the American dollar will not get significantly stronger, publishers' prices will continue to rise and investment returns will most likely not increase. In addition, the budget for parts/sets is impossible to predict. There is a 6-7% increase in the acquisitions budget overall. Miller expressed deep concern about the budget for the following year. Prof. Scheidt asked how the libraries were faring in the campaign. Miller responded that there have been some positive results.

Associate Director George Sereiko then joined the committee for discussion on the assignment of carrels in the Hesburgh Library. Prof. Blenkinsopp reported that the Theology Department feels doctoral students still completing course work may need to use the library more than those at the dissertation stage. Prof. Robinson reported that the English Department could agree to the libraries' proposed allocation if there is flexibility to accommodate increases and decreases. Dr. Sereiko reported that allocating carrels according to doctoral population. Mr. Miller then reviewed the libraries' revised proposal which maintains the present allocation system and reserves the assignment of carrels to departments. The libraries will receive the proposed right to question and change the allocation of carrels. Prof. Blenkinsopp commented that this will be satisfactory because departments vary on how students are put through their doctoral programs. Dr. Sereiko noted that half of the graduate students do not have carrels, but with the elimination of faculty from carrels and plans to construct new carrels the situation will be ameliorated somewhat. Prof. Bender added that there will always be complaints regarding the use of carrels, but flexibility and an annual review will help. Prof. Bender commended Dr. Sereiko and Mr. Miller for their handling of the matter.

Discussion of the paper on the State of the Library Faculty was delayed until the next meeting. Mr. Miller proposed that the committee meet once informally before the fall term

to develop a response. Members were asked to notify Vicki of their July/August calendar so a meeting can be scheduled.

The meeting was adjourned at 5:00 p.m.

Respectfully submitted,

Vicki Maachouk  
Secretary

## university libraries minutes july 28, 1987

The meeting was called to order at 4:00 p.m. by chairperson Harvey Bender in the Library of the University Club.

Approval of the minutes of the meeting of June 3, 1987 were held for the next meeting.

Robert Miller gave his report as Director of the Libraries:

1. Libraries' ranking -- The University Libraries of Notre Dame ranked 77 out of 101 research libraries in the U.S. and Canada in 1985-86. Based on an index developed by the Association of Research Libraries, the ranking takes into account the number of volumes held, number of volumes added, number of current serials, total expenditures, and size of staff.

2. Approval program statistics -- Miller distributed annual statistics from Ballen indicating a 5% increase in titles covered and a 9.5% average price increase -- however, Notre Dame's average price rose only 2.9%.

3. Reciprocal borrowing program -- Borrowing conditions have been agreed upon by OCLC member libraries. An article on the program will be in the fall issue of the Libraries' newsletter Access.

4. Membership in the Center for Research Libraries -- Assistant Director Maureen Gleason is investigating the University Libraries' membership and will make a report to the Libraries Administrative Committee.

5. UNLOC -- Terminals are on the Reference Desk in the Hesburgh Library and on the counters in the branch libraries. The card catalog has been shifted to make room for the public access terminals.

Prof. Bender asked if a joint meeting of the University Committee on Libraries and the Collection Development Committee would be possible to insure that the most effective, least traumatic cuts in serials would be made. Mr. Miller replied that he will talk to Maureen Gleason, the committee chair, about this. As strategies develop regarding serials, it may make sense for the two committees to meet.

Dana McDonald, Librarian of Indiana University Medical School, visited Mr. Miller recently in regards to the accreditation review of the Indiana University Medical School Library. She was visiting local centers for education and reported that the local faculty seem to be reasonably happy with the level of library support for their educational mission.

The next meeting was set for Monday, August 24 at 4:00 p.m. in the Conference Room of the Administrative Offices, 221 Hesburgh Library. This will be an organizational meeting at which a chair will be elected for the upcoming year. Ms. Maachouk was asked to poll committee members regarding their availability for the meeting and remind them to bring their academic calendars to the meeting.

The meeting was adjourned at 5:00 p.m.

Respectfully submitted,

Vicki Maachouk  
Secretary

# advanced studies

## current publications and other scholarly works

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

### COLLEGE OF ARTS AND LETTERS

#### American Studies

Schmuhl, Robert P.

R.P. Schmuhl. 1987. Eliminating Anonymity in Editorials Can Make Them Sharper. Presstime: The Journal of the American Newspaper Publishers Association 9(7): 54.

Stritch, Thomas J.

T.J. Stritch. 1987. The Catholic Church in Tennessee: The Sesquicentennial Story. The Catholic Center, Nashville. 384 pp. with index and illustrations.

#### Economics

Kim, Kwan S.

K.S. Kim and P. Vorasopontaviporn. 1987. International Trade, Employment and Income in Thailand. Pages 1-39 in, Monograph Series on Global Development. World Academy of Development and Cooperation, University of Maryland.

K.S. Kim, E. Marcos and G. Turrubiate. 1987. The Capital Goods Sector in Mexico: Situation and Role in Development. Pages 855-868 in, K. Fatemi, ed., Proceedings of An International Symposium on North American Economies in the 1990's. University of Texas, Laredo, Texas.

#### English

Brogan, Jacqueline V.

J.V. Brogan. 1987. Stevens and Stevenson: The Guitarist's Guitarist. American Literature 59:228-241.

J.V. Brogan. 1987. Review of Joan Richardson, Wallace Stevens: The Early Years, 1879-1923, New York: William Morrow, 1986. American Literature 59:282-284.

Fredman, Stephen A.

S.A. Fredman. 1986. Review of Charles Altieri, Self and Sensibility in Contemporary American Poetry. English Language Notes 24(1):98-99.

Gernes, Sonia G.

S.G. Gernes. 1987. Review of Isabel Allende's Of Love and Shadows. Commonweal 114:460-462.

Vanden Bossche, Chris R.

C.R. Vanden Bossche. 1987. Review of John P. McGowan, Representation and Revelation: Victorian Realism from Carlyle to Yeats. Victorian Studies 30(4):555-556.

#### History

Biddick, Kathleen A.

K.A. Biddick. 1987. Missing Links: Taxable Wealth, Markets and Stratification among Medieval English Peasants. Journal of Interdisciplinary History 28:277-298.

K.A. Biddick. 1987. Review of Della Hooke. The Anglo-Saxon Landscape: The Kingdom of the Hwicce. Speculum 62(3): 692-694.

K.A. Biddick. 1987. Review of Barry Cunliffe and Julian Munby. Excavations at Portchester Castle, Volume 4: Medieval and Inner Bailey (Reports of the Research Committee of the Society of Antiquaries). Speculum 62(2):404-406.

Nugent, Walter

W. Nugent. 1986. Historical Demography. International Journal of Social Education 1:55-68.

- W. Nugent. 1986. Antonin Dvorak: An American Interlude. Timeline 3:2-13.
- W. Nugent. 1986. Frontiers and Empires in the Late Nineteenth Century. Pages 263-275 in, M. Heyd, ed., Religion, Ideology and Nationalism in Europe and America: Essays Presented in Honor of Yehoshua Arieli. The Historical Society of Israel and the Zalman Shazar Center for Jewish History, Jerusalem.
- W. Nugent. 1986. American Farmers and the Market Economy, 1880-1920. Pages 1-17 in, L.E. Gelfand and R.J. Neymeyer, eds., Agricultural Distress in the Midwest: Past and Present. The University of Iowa, Iowa City, Iowa.
- W. Nugent. 1987. If I Were Pope I Would Recognize Israel. Page 131 in, C. Lund, ed., If I Were Pope. Thomas More Association, Chicago, Illinois.
- W. Nugent. 1987. City-Country Conflict in the Populist Movement. Pages 49-60 in, V.G. Lerda, ed., Citta e Campagna nell'Era Dorata: Gli Stati Uniti tra Utopia e Riforma. Bulzoni Editore, Roma.
- W. Nugent. 1987. The Agelessness of Reform. Review essay of Robert H. Walker, Reform in America: The Continuing Frontier. Reviews in American History 15:185-190.

#### Modern Classical Languages

DellaNeve, JoAnn

- J. DellaNeve. 1987. Scattered Rhymes: Petrarchan Fragments in Scève's Delie 60. French Studies 41:129-140.

#### Music

Klugherz, Laura

- L. Klugherz. 1987. Guest Soloist. The works of Telemann and Bach, Chamber Orchestra of the Oregon Coast Music Festival. Quilcene, Washington.
- L. Klugherz. 1987. Chamber Concert Violinist. The work of Dohnanyi, Oregon Coast Music Festival.
- L. Klugherz. 1987. Recital of the works of Kreisler, Mompou, Sarasate and Beethoven.

- thoven. International Convention of Pinot Noir Growers, Portland, Oregon.
- L. Klugherz. 1987. Guest Violist with the Philadelphia String Quartet. Olympic Music Festival, Quilcene, Washington.
- L. Klugherz. 1987. Viola and Violin Concert. The works of Schubert and Moszkowski. Quilcene, Washington.
- L. Klugherz. 1987. Guest Soloist. Chamber Orchestra of the Oregon Coast Music Festival in the works of Telemann and Bach.

#### Philosophy

Kremer, Michael

- M. Kremer. 1987. 'If' is Unambiguous. Nous 21:199-217.

McInerny, Ralph

- R. McInerny. 1987. The Basis and Purpose of Natural Law. Studi Tomistici 30:137-146.
- R. McInerny. Jacques Maritain In and On America. This World 18:75-83.
- R. McInerny. 1987. The Basis and Purpose of Natural Law. Studi Tomistici 30:137-146.
- R. McInerny. Jacques Maritain In and On America. This World 18:75-83.

#### Program of Liberal Studies

Crowe, Michael J.

- M.J. Crowe. 1987. Review of Philip S. Kitcher, The Nature of Mathematical Knowledge. Historia Mathematica 14:204-209.

#### Psychology

Snyder, Charles W.

- F. Schieber and C.W. Snyder. 1987. Hardware and Software Interface for Sensing Changes in Rotary Position with an Apple II Microcomputer. Behavior Research Methods, Instruments and Computers 19:311-314.

## Sociology

- Christiano, Kevin J.  
K.J. Christiano. 1987. Sociology of Religion Course Syllabus. Pages 62-68 in, M. Adriance and D. Blanchard, eds., Syllabi and Instructional Materials for the Sociology of Religion. Teaching Resources Center, American Sociological Association, Washington, D.C.

## Theology

- Weaver, F. Ellen  
F.E. Weaver. 1986/1987. The Neo-Gallican Liturgies Revisited. Studia Liturgica 16(3/4):54-72.

## COLLEGE OF SCIENCE

### Biological Science

- Carpenter, Stephen R.  
J.J. Elser, N.C. Goff, N.A. MacKay, A.L. St. Amand, M.M. Elser and S.R. Carpenter. 1987. Species-specific Algal Responses to Zooplankton: Experimental and Field Observations in Three Nutrient-limited Lakes. Journal of Plankton Research 9(4):699-717.
- Craig, Jr. George B.  
W.A. Hawley, P. Reiter, R.S. Copeland, C. B. Pumpuni and G.B. Craig, Jr. 1987. Aedes albopictus in North America: Probable Introduction in Used Tires From Northern Asia. Science 236:1114-1116.
- S.J. Nawrocki, W.A. Hawley and G.B. Craig, Jr. 1987. Estimation of the Northern Limits of Distribution of Aedes albopictus in North America. Journal of the American Mosquito Control Association 3(2):314-317.
- Fuchs, Morton S.  
J.R. Powell, A.L. Hollander and M.S. Fuchs. 1986. Chorion Synthesis, Tanning and Sclerotization in Aedes aegypti Mosquitoes. Pages 3-7 in, D. Bowosky and A. Spielman, eds., Host Regulated Developmental Mechanisms in Vector Arthropods. University of Florida Press.
- B.R. Thomas, M.S. Fuchs, S. Bonavalier and S.H. Kang. 1986. Juvenile Hormone Binding Proteins of Aedes atropalpus and Aedes aegypti. Pages 51-59 in, D. Bowosky and A. Spielman, eds., Host Regulated Developmental Mechanisms in Vector Arthropods. University of Florida Press.
- Hawley, William A.  
See under Craig, Jr. George B. 1987. Science 236:1114-1116.
- See under Craig, Jr. George B. 1987. Journal of the American Mosquito Control Association 3(2):314-317.
- Lodge, David M.  
D.M. Lodge and J.G. Lorman. 1987. Reductions in Submersed Macrophyte Biomass and Species Richness By The Crayfish Orconectes rusticus. Canadian Journal of

### Fisheries and Aquatic Sciences 44(3): 591-597.

- Martin, Vicki J.  
M.B. Thomas, G. Greeman and V.J. Martin. 1987. The Embryonic Origin of the Neurosensory Cells and the Role of Nerve Cells in Metamorphosis in Phialidium gregarium (Cnidaria, Hydrozoa). International Journal of Invertebrate Reproduction and Development 11:265-287.
- V.J. Martin. 1987. A New Teratogenic Risk Assessment Bioassay System Utilizing Marine Hydrozoans. Alternative Methods in Toxicology Series-In Vitro Toxicology: Approaches to Validation 5:365-392.
- Ploplis, Victoria A.  
V.A. Ploplis, T.S. Edgington and D.S. Fair 1987. Initiation of the Extrinsic Pathway of Coagulation. Associations of Factor V11a With a Cell Line Expressing Tissue Factor. Journal of Biological Chemistry 262(20):9503-9508.

### Chemistry

- Castellino, Francis J.  
K.A.W. Hill, L.M.E. Kroon and F.J. Castellino. 1987. The Effect of Divalent Cations on the Amidolytic Activity of Bovine Plasma Activated Protein C and Des-1-41-Light Chain Activated Protein C. Journal of Biological Chemistry 262(20):9581-9586.
- T. Urano, B.A.K. Chibber and F.J. Castellino. 1987. The Reciprocal Effects of  $\epsilon$ -aminohexanoic Acid and Chloride Ion On the Activation of Human [Glu<sup>1</sup>]Plasminogen by Human Urokinase. Volume 84, Pages 4031-4034 in, Proceeding of the National Academy of Science, U.S.A.
- K.A.W. Hill, S.A. Steiner and F.J. Castellino. 1987. <sup>205</sup>Tl<sup>+</sup> as a Spectroscopic Probe of the Monovalent Cation Binding Sites of Bovine Plasma Activated Protein C and Des-1-41-Light-Chain-activated Protein C. Journal of Biological Chemistry 262(15):7098-7104.
- K.A.W. Hill and F.J. Castellino. 1987. Topographical Relationships between the Monovalent and Divalent Cation Binding Sites of Des-1-41-Light Chain Bovine Plasma Protein C and Des-1-41-Light Chain-activated Bovine Plasma Protein C. Journal of Biological Chemistry 262(15):7105-7108.
- Creary, Xavier  
X. Creary, M.E. Mehrsheikh-Mohammadi and S. McDonald. 1987. Methylenecyclopropane Rearrangement as a Probe for Free Radical Substituent Effects.  $\sigma^+$  Values for Commonly Encountered Conjugating and Organometallic Groups. Journal of Organic Chemistry 52:3254-3263.
- Fehlner, Thomas P.  
N.P. Rath and T.P. Fehlner. 1987. Multiple Deprotonation of a Ferraborane. Evidence for the Formation of a Discrete



Transition-Metal Boride. Journal of the American Chemical Society 109:5273-5274.

Pasto, Daniel J.

D.J. Pasto, R. Krasnansky and C. Zercher. 1987. Stabilization Energies and Structures of Substituted Methyl Radicals. The Journal of Organic Chemistry 52(14): 3062-3072.

Scheidt, W. Robert

W. R. Scheidt and Y.J. Lee. 1987. Recent Advances in the Stereochemistry of Metallotetrapyrroles. Structure and Bonding 64 Pages 1-70.

Thomas, J. Kerry

P. Lianos and J.K. Thomas. 1987. Small CdS Particles in Inverted Micelles. Journal of Colloid and Interface Science 117(2):505-512.

### Physics

Funk, Emerson G.

See under Poirier, John A. 1987. Nuclear Instruments and Methods A260:280-282.

Funk, Emerson G.

See under Poirier, John A. 1987. Volume 2, Pages 438-441 in, Proceedings of the 20th International Cosmic Ray Conference, International Union of Pure and Applied Physics. Navka, Moscow, USSR.

LoSecco, John M.

See under Poirier, John A. 1987. Volume 2, Pages 438-441 in, Proceedings of the 20th International Union of Pure and Applied Physics. Navka, Moscow, USSR.

Lundeen, Stephen R.

E.A. Hessels, W.G. Sturru, S.R. Lundeen and D.R. Cok. 1987. Measurement of the Magnetic Fine Structure of the 10 G and 10 H States of Helium. Physical Review A35:4489-4498.

Mikocki, Stanislaw

See under Poirier, John A. 1987. Journal of Physics G: Nuclear Physics 13 Pages L163-L168.

See under Poirier, John A. 1987. Physical Review D 36:1378-1380.

See under Poirier, John A. 1987. Journal of Physics G: Nuclear Physics 13(9): L217.

See under Poirier, John A. 1987. Physical Review D 36:1381-1384.

See under Poirier, John A. 1987. Nuclear Instruments and Methods A260:280-282.

Mikocki, Stanislaw

See under Poirier, John A. 1987. Volume 2, Pages 438-441 in, Proceedings of the 20th International Union of Pure and Applied Physics. Navka, Moscow, USSR.

See under Poirier, John A. 1987. Volume 2, Pages 438-441 in, Proceedings of the 20th International Union of Pure and Applied Physics. Navka, Moscow, USSR.

See under Poirier, John A. 1987. Nuclear Instruments and Methods in Physics Research A257:473-474.

Newman, Kathie E.

B.L. Gu, K.E. Newman and P.A. Fedders. 1987. Role of Correlations in (GaSb)<sub>1-x</sub>

Ge<sub>2x</sub> Alloys. Physical Review B35:9135-9148.

Poirier, John A.

J. Linsley, S. Mikocki and J.A. Poirier. 1987. A New Method to Identify Muons in an Extensive Air Shower Array. Journal of Physics G: Nuclear Physics 13 Pages L163-L168.

J.A. Poirier, J. Linsley and S. Mikocki.

1987. Angular Distributions of Secondary Charged Particles in Showers Initiated by Gammas and Protons. Physical Review D 36:1378-1380.

S. Mikocki and J.A. Poirier. 1987. The Differences in Angular Distributions of Secondaries from EAS Initiated by Gammas and Protons. Journal of Physics G: Nuclear Physics 13(9):L217.

S. Mikocki and J.A. Poirier. 1987. Electromagnetic-Shower Development in Concrete and the Punchthrough Effect. Physical Review D 36:1381-1384.

J.A. Poirier, E.G. Funk, S. Mikocki and N. Rohrer. 1987. Comparison of Methods for Determining the Centers of Extensive Air Showers. Nuclear Instruments and Methods A260:280-282.

Poirier, John A.

J.A. Poirier, E.G. Funk, J.M. LoSecco, S. Mikocki and T.W. Rettig. 1987. Project GRAND: A New Method to Detect EAS by Directly Measuring the Angles of Secondaries with Muon Identification. Volume 2, Pages 438-441 in, Proceedings of the 20th International Cosmic Ray Conference, International Union of Pure and Applied Physics. Navka, Moscow, USSR.

J.A. Poirier and S. Mikocki. 1987. Improving the Angular Resolution of Existing Air Shower Arrays by Adding a Thin Layer of Lead. Nuclear Instruments and Methods in Physics Research A257:473-474.

S. Mikocki, J. Linsley, J.A. Poirier and A. Wrotniak. 1987. The Time Structure of Charged Particles in Extensive Air Showers at 100 TeV. Volume 6, Pages 75-78 in, Proceedings of the 20th International Cosmic Ray Conference, International Union of Pure and Applied Physics. Moscow, USSR.

J.A. Poirier, J. Linsley and S. Mikocki. 1987. The Angular Distributions of Charged Particles in Extensive Air Showers at 100 TeV. Volume 5, Pages 452-455 in, Proceedings of the 20th International Cosmic Ray Conference, International Union of Pure and Applied Physics. Moscow, USSR.

Rettig, Terrence W.

See under Poirier, John A. 1987. Volume 2, Pages 438-441 in, Proceedings of the 20th International Union of Pure and Applied Physics. Navka, Moscow, USSR.

Ruggiero, Steven T.

J.B. Barner and S.T. Ruggiero. 1987. RF Sputter-Deposited Aluminum-Oxide Films as High Quality Artificial Tunnel Barriers. IEEE Transactions on Magnetics MAG-23:854.

J.B. Barner and S.T. Ruqquero. 1987. Observation of the Incremental Charging of Aq Particles by Single Electrons. Physical Review Letters 59(7):807-810.

COLLEGE OF ENGINEERING

Aerospace and Mechanical Engineering

Mueller, Thomas J.

M. Brendel and T.J. Mueller. 1987. Boundary Layer Measurements on an Airfoil at a Low Reynolds Number in an Oscillating Freestream. Pages 1-9 in, AIAA-87-1332, AIAA 19th Fluid Dynamics, Plasma Dynamics and Lasers Conference. American Institute of Aeronautics and Astronautics, Honolulu, Hawaii.

A.F. Huber II and T.J. Mueller. 1987. The Effect of Trip Wire Roughness on the performance of the Wortmann FX 63-137 Airfoil at Low Reynolds Numbers. Experiments in Fluids 5:263-272.

Sen, Mihir

M. Sen and K.E. Torrance. 1987. Natural Convection in a Thin Horizontal Porous Annulus. International Journal of Heat and Mass Transfer 30(4):729-739.

S.L. Moya, E. Ramos and M. Sen. 1987. Numerical Study of Natural Convection in a Tilted Rectangular Porous Material. International Journal of Heat and Mass Transfer 30(4):741-756.

Sen, Mihir

E. Martin del Campo, M. Sen and E. Ramos. 1987. Natural Convection in a Semi-elliptic Cavity. Numerical Heat Transfer 12:101-119.

M. Sen and K.T. Yang. 1987. Characterization of Permeable Beds in Steady Flow. Pages 21-26 in, K. Vafai, V. Prasad and I. Catton, eds., Heat Transfer in Geophysical and Geothermal Systems, HTD-Volume 76. American Society of Mechanical Engineers, New York.

Szewczyk, Albin A.

A.A. Szewczyk and S. Elsner. 1987. The Effects of Upstream Shear and Endplates on the Pressure Distribution Around a Rectangular Cylinder. Volume 2, Pages 152-153 in, Proceedings of the Canadian Congress of Applied Mathematics. University of Alberta, Edmonton, Alberta, Canada.

Yang, Kwang-Tzu

See under Sen, Mihir. 1987. Pages 21-26 in, K. Vafai, V. Prasad and I. Catton, eds., Heat Transfer in Geophysical and Geothermal Systems, HTD-Volume 76. American Society of Mechanical Engineers, New York.

H.Q. Yang, K.T. Yang and J.R. Lloyd. 1987. Three-Dimensional Finite-Difference Calculations of Buoyant Flow in Arbitrary Parallelepiped Enclosures Using Curvilinear Non-Orthogonal Coordinates. Pages 1169-1181 in, Proceedings of the 5th International Conference on Numerical Methods in Thermal Problems. Pineridge Press, G.B., Montreal, Canada.

# awards received

IN THE PERIOD AUGUST 1, 1987 THROUGH AUGUST 31, 1987

Department or Office	Principal	Short Title	Sponsor	Dollars Months
AWARDS FOR RESEARCH				
Biological Sciences	Martin	Stem Cell Differentiation	Natl. Sci. Fdn.	50,000 24
Biological Sciences	Fennwald	Inhibitors of Site-Specific Recombination	Natl. Inst. Health	12,176 10
Biological Sciences	Klebba	Structure/Function of Ferric Enterobactin Receptor	Natl. Inst. Health	97,948 12
Civil Eng.	Bierman	Tributary Loading Methods	Water Resource Research Cent.	22,000 12
Chemical Eng.	Wolf	Kinetic Studies of Carbon Deposition	Bendix Corp.	41,805 12
Chemistry	Nowak	NMR Studies of Metals in Kin- ases and Isolated Enzymes	Natl. Inst. Health	186,660 12
Chemistry	Basu	Glycolipid Metabolism in Normal and Pathological Tissues	Natl. Inst. Health	152,436 12
Communication Theatre	Falkenberg	Open Land	Indiana Arts Commission	3,000 3
Communication Theatre	Falkenberg	Open Land	Center for New Television	1,500 3
Elect. Comp. Eng.	Costello	Error Control Techniques for Satellite & Space Communication	NASA - Goddard Space Flight	8,962 9
Elect. Comp. Eng.	Antsaklis	Artificial Intelligence/Control Theory Relationships	McDonnell Douglas Corp.	8,000 3
Mathematics	Shaw	Tangential Cauchy-Riemann Operators	Natl. Sci. Fdn.	19,187 21
Mod. Class. Languages	Welle	Pasolini and Postwar Italian Culture	Natl. Endow. Humanities	750 1
Physics	Johnson, Sapirstein	Weak Interactions in Heavy Atoms	Natl. Sci. Fdn.	* 12
Sociology	Hallinan	Determinants of Students' Interracial Friendliness	Natl. Inst. Health	90,025 12
So. Bend Cent. Med. Educ.	Cole, Kingsley	Interactions of Human VZV and Non-human CNS Cells in Vitro	I.U. School Medicine	20,405 12
Civil Eng.	Silliman	Movement of Microorganisms in the Subsurface	Water Resource Research Cent.	17,000 12
Chemistry	Miller	New Approaches to Beta-Lactams and Other Natural Products	Natl. Inst. Health	50,112 12
Chemistry	Miller	Microbial Iron Chelators and Analog: Synthesis and Study	Natl. Inst. Health	166,578 12
Materials Sci. Eng.	McGinn	Sintering of High Tc Superconductors	Natl. Sci. Fdn.	43,633 12
AWARDS FOR SERVICE PROGRAMS				
Inst. Past. Soc. Min.	Bernstein	Center for Pastoral Liturgy- Publications	Various Others	4,101 1

Inst. Past. Soc. Min.	Bernstein	Center for Pastoral Liturgy	Various Others	2,970 1
Inst. Past. Soc. Min.	Pelton	Notre Dame Center for Continu- ing Formation in Ministry	Various Others	14,182 1
Inst. Past. Soc. Min.	McNeill	Center for Social Concerns	Various Others	306 1
Inst. Past. Soc. Min.	Pelton	Latin and North American Church Concerns	Various Others	3,025 1
Inst. Past. Soc. Min.	Pelton	IPSM Parish Study-Phase III	Various Others	905 1
Inst. Past. Soc. Min.	Kelly	Programs for Church Leaders	Various Others	11,466 1

AWARDS FOR OTHER PROGRAMS

Aerospace Mech. Eng.	Szewczyk	XVIII Biennial Fluid Dynamics Symposium	Natl. Sci. Fdn.	1,049 1
Graduate School	Le	Graduate Research Fellowship Support Grant	Natl. Sci. Fdn.	18,300 60

\*Supercomputer Time.

## proposals submitted

IN THE PERIOD AUGUST 1, 1987 THROUGH AUGUST 31, 1987

<u>Department or Office</u>	<u>Principal</u>	<u>Short Title</u>	<u>Sponsor</u>	<u>Dollars Months</u>
PROPOSALS FOR RESEARCH				
Chemistry	Fehlner	Inorganometallic Precursors to Alloy Thin Films	JS Guggenheim Mem. Fdn.	* 8
Communication Theatre	Falkenberg	Open Land	Indiana Arts Commission	3,399 3
Communication Theatre	Falkenberg	Open Land	Center for New Television	9,991 3
Radiation Lab.	Schuler	Effects of Radiation Laboratory	Dept. Energy	13,070,000 36
Theology	Brooks	Who Owns the Land of Israel?	H.F. Guggen- heim Fdn.	60,180 12
School Architecture	Stamper	The Urban Boulevard: Past and Present; Its Form and Analysis	Natl. Endow. Arts	10,000 12
Biological Sciences	Fuchs	Reproductive Physiology of Aedes Mosquitoes	Natl. Inst. Health	148,877 12
Civil Eng.	Bierman	Heavy Metals in the Great Lakes	Natl Oceanic & Atmos. Admin.	61,494 24
Chemical Eng.	Carberry	Catalysis and Surface Analyses over Metal Alloys	Amer Chem Soc Petro Res Fund	90,559 36
Chemistry	Gellene	Neutralized Ion-Beam Studies of Transient Species	Natl. Sci. Fdn.	294,705 36
Chemistry	Fehlner	Organized Assemblies of Clusters	Amer Chem Soc Petro Res Fund	91,320 36
Earth Sciences	Rigby, Wasowski	Digital 3-D Classification	Natl. Sci. Fdn.	86,070 24

Earth Sciences	Rigby	Geology of Northern McCone Co., MT	Natl. Sci. Fdn.	149,306 24
Elect. Comp. Eng.	Cohn, Hubscher	Intelligent Work Stations	Intl. Business Machines	348,347 12
Reilly Center	Menninga, McKim, McMullin	From Disagreement Toward Consensus in Science	Natl. Sci. Fdn.	19,786 8
Materials Sci. Eng.	McGinn	Plasma Spraying of Ceramic Superconductors	FMC Corp.	31,514 4
Physics	Dow	Theory of Superlattices	Dept. Navy	118,274 6
Mathematics	Sommese	Transcendental Algebraic Geometry	Natl. Sci. Fdn.	195,733 36

\*Dollar amount to be determined.

## summary of awards received and proposals submitted

IN THE PERIOD AUGUST 1, 1987 THROUGH AUGUST 31, 1987

### AWARDS RECEIVED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	8	674,872	12	317,305	20	992,177
Facilities and Equipment	0	0	0	0	0	0
Instructional Programs	0	0	0	0	0	0
Service Programs	0	0	7	36,955	7	36,955
Other Programs	0	0	2	19,349	2	19,349
Total	8	674,872	21	373,609	29	1,048,481

### PROPOSALS SUBMITTED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	3	13,337,151	15	1,452,404	18	14,789,555
Facilities and Equipment	0	0	0	0	0	0
Instructional Programs	0	0	0	0	0	0
Service Programs	0	0	0	0	0	0
Other Programs	0	0	0	0	0	0
Total	3	13,337,151	15	1,452,404	18	14,789,555

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## notre dame report

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**Darlene Cutrona, Editor**  
**John Furnari, Layout**  
Publications and Graphic Services  
415 Administration Building  
Notre Dame, Ind. 46556  
(219) 239-5337

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