



*H. Anderson*  
*Gen. Research*

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# Notre Dame

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# R E P O R T

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September 14, 1990

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1990-91

# The University

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## Cannon Named Associate Provost

Dominican Sister Kathleen Cannon, assistant professor of preaching and communication at Catholic Theological Union in Chicago, has been named associate provost at the University. She takes over the position left vacant by the appointment of Eileen Kolman as dean of the Freshman Year of Studies.

Cannon's duties as associate provost will include advising the provost on a range of academic matters including women's concerns, academic liaison with Saint Mary's College and coordination of personnel matters for regular faculty. She also will be involved in affirmative action deliberations and will chair both the commencement committee and the faculty/student committee on women.

Cannon received her bachelor's degree in mathematics from Ohio Dominican College in 1965, her M.A. in religious studies from Providence College in Rhode Island in 1975 and her D.Min. from Catholic University of America in Washington, D.C., in 1982. She has been a lecturer in religious studies at Princeton Theological Seminary, Ohio Dominican College in Columbus and Albertus Magnus College in New Haven, Conn., where she served for two years as chair of the religious studies department. Her varied career also has included 10 years in Catholic secondary education, as well as extensive experience in pastoral and religious formation work. She will continue to pursue her interest in liturgy and liturgical preaching, fields in which she has written and lectured extensively.

Cannon has served as a member of the General Council of the Dominican Sisters and the boards of Albertus Magnus and Ohio Dominican Colleges. She is a member of the Catholic Theological Society of America, the Academy of Homiletics, the Dominican Leadership Conference and Pax Christi.

## Ancient Figurines Donated to Snite

A collection of ancient ceramic figurines from Mexico and Central America has been purchased for the Snite Museum by Mr. and Mrs. Judd Leighton of Niles, Mich.

The 41-piece collection of Preclassic period figurines (1500 B.C. to 200 A.D.) includes the finest known examples of several different figural styles and reflects the richness and extent of the Olmec civilization, the mother culture of Mesoamerica. Since 1986, several important Preclassic figurines have been acquired by the Snite Museum, most notably those comprising the Rev. Edmund P. Joyce, C.S.C., Collection of Ritual Ballgame Sculpture. Several of the Olmec figurines in the Leighton Collection also depict players of the ancient Mesoamerican ballgame "ulama," from which many scholars believe contemporary football is descended. In addition to those ballplayers, there are figurines of seated rulers, earth mothers and several multifaceted representations of the Olmec pantheon.

## Wetherbee To Receive Corby Award

Commander James D. Wetherbee, U.S.N., American astronaut and Notre Dame's first graduate to make a space flight, will receive the Rev. William Corby, C.S.C., Award from the Alumni Association.

Wetherbee, a 1974 graduate who majored in aerospace engineering, was the pilot of the space shuttle Columbia during its mission January 9-20 of this year. Among Wetherbee's personal effects during the mission was the University's Laetare Medal of 1925. The University's highest honor and the most prestigious award given to Catholic Americans, the Laetare Medal was presented that year to Albert F. Zahm, a professor of mathematics and a pioneer of aeronautical study.

The Corby Award is given annually by the Alumni Association to a graduate who has done exemplary service in the nation's armed forces. It memorializes a Holy Cross priest who served as Notre Dame's third and sixth president. Father Corby was among the seven priests from Notre Dame to serve the Union Army as chaplains during the Civil War. He is particularly remembered for his ministry among Catholic Union soldiers during the battle of Gettysburg, where he imparted a general absolution to members of New York's Irish Brigade.

Wetherbee will receive the Corby Award during halftime ceremonies of the Notre Dame vs. Air Force football game October 13.

# Faculty Notes

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## Appointments

Kathleen Halischak, adjunct assistant professor in the Freshman Writing Program and part-time assistant professional specialist in the Gender Studies Program, has been appointed special assistant to the executive vice president and director of academic advising for varsity athletics. Her responsibilities include overseeing the daily operation of the office which monitors academic progress of student athletes, attending to matters of compliance with NCAA rules regarding academics and assisting the executive vice president in matters relating to athletics.

Rev. James A. Rigert, C.S.C., associate professor of earth sciences, has been named chairman of the Department of Earth Sciences. His specialty is math and physics application in geology, in such courses as geostatistics, structural geology and geophysics. His research includes work at the Naval Research Lab and serving as a visiting scientist at the Los Alamos National Laboratory.

## Honors

Vincent P. DeSantis, professor emeritus of history, has been awarded a Fulbright Professorship to India from January through May 1991.

Gary A. Lamberti, assistant professor of biological sciences, was appointed chairman of the Award of Excellence Committee of the North American Benthological Society. This committee selects the recipient of the highest award in benthic science presented by the society.

George A. Lopez, associate professor of government and international studies and faculty fellow in the Institute for International Peace Studies, was named a research associate for 1990-92 for the project "Explaining Root Causes of Human Rights Violations" of the Center for the Study of Social Conflicts, University of Leiden, Netherlands. The project brings together about one dozen Latin American, European and North American researchers to produce a series of conferences and monographs on human rights violations and human rights monitoring.

Alasdair MacIntyre, McMahan/Hank professor of philosophy, received the honorary degree of Doctor of the University from the University of Essex, England, during the ceremonies celebrating the 25th anniversary of the University's foundation, July 12.

Frank K. Reilly, Hank professor of business administration, was elected second vice president of the Midwest Finance Association. He was reappointed to the Council of Examiners for the Institute of Chartered Financial Analysts. The council creates the exam for candidates working toward the CFA designation.

Rev. Oliver F. Williams, C.S.C., associate provost and associate professor of management, was awarded a plaque presented in recognition of his outstanding contributions as National Division Chairperson for 1989-1990 of the Social Issues in Management Division of the Academy of Management at the annual meeting in San Francisco, Calif., Aug. 14.

## Activities

Neal M. Cason, professor of physics, gave the invited seminar titled "Photoproduction of Charmed Mesons" at Indiana University, Bloomington, Ind., April 24, and at Brookhaven National Laboratory in Upton, N.Y., May 31.

Kevin J. Christiano, associate professor of sociology, presented the paper "The Catholic Church and Recent Immigrants to the United States: A Review of Research" in the session on Vatican II and American Catholicism at the annual meeting of the Association for the Sociology of Religion in Washington, D.C., Aug. 11. He was selected program chair for the association's 1991 annual meeting in Cincinnati, Ohio. He participated as a panelist in the roundtable discussion "The Church and New Immigrants" sponsored by the section on Race and Ethnicity at the annual meeting of the American Sociological Association in Washington, D.C., Aug. 14.

Alan Dowty, professor of government and international studies, gave the paper "Nationalism and Minority Rights in Jewish and Israeli Politics" at the annual meeting of the Association for Israel Studies held at Gratz College in Melrose Park, Pa., June 11.

Denis Goulet, O'Neill professor of Education for Justice, Department of Economics, and in the Kellogg Institute, delivered a lecture on "International Ethics and Human Rights" to the summer seminar for Upper-Level Management sponsored by Ecole Nationale d'Administration Publique at the Université de Quebec at Estrie, Quebec, Canada, Aug. 17.

William G. Gray, chairman and Massman professor of civil engineering, gave a lecture titled "On the Equations for Multiphase Flow" at the Department of Mathematics at the University of the German Armed Forces in Neubiberg, Germany, June 26. He gave the lecture titled "Tidal Modeling by the Finite Element Method" at the IBM Scientific Center in Heidelberg, Germany, July 13.

Lynn S. Joy, associate professor of philosophy, gave a public lecture titled "What is the History of Philosophy the History Of?" and taught a series of seminars for university teachers of the NEH Summer Institute, The Philosophical Uses of Historical Traditions, at Clemson University in Clemson, S.C., June 20-22.

## Faculty Notes

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**Eric J. Jumper**, associate professor of aerospace and mechanical engineering, served as chairman of the aerospace division of the American Society for Engineering Education for 1989-90. He was an invited dinner speaker on the Shroud of Turin at the American Society of Engineering Educators Aerospace Division in Toronto, Canada, June 2.

**Douglas Kinsey**, professor of art, art history and design, served as a juror in the annual June Art Exhibition of the Wassenberg Art Center in Van Wert, Ohio, May 23.

**Craig Lent**, assistant professor of electrical engineering, presented the talk titled "Transport in Semiconductor Nanostructures" and "Finite Element Techniques for Travelling Wave Problems" at Amoco Technologies in Naperville, Ill., Aug. 15.

**George A. Lopez**, associate professor of government and international studies and faculty fellow in the Institute for International Peace Studies, participated in a working conference of the Hewlett Foundation and the Hewlett funded centers for teaching and research in conflict resolution held at Estes Park, Colo., June 14-17. He gave the talk "Reflections on Peace and International Cooperation in the 1990s" at the board of directors meeting of the John D. and Catherine T. MacArthur Foundation in Chicago, Ill., July 11.

**Juan C. Migliore**, associate professor of mathematics, gave the talk titled "A Generalization of Schwartz's Liaison Addition" at the conference on the Geometry of Complex Projective Varieties, Cetraro, Italy, May 29. He presented "Generalizzazione della Liaison Addition di Schwartz" and "Sul numero di generatori minimali di una curva in  $P^3$ " at the University of Catania, Catania, Italy, May 23, 25. He lectured on "Curves with Natural Cohomology" at the University of Trento, Trento, Italy, Aug. 3.

**Karamjit S. Rai**, professor of biological sciences, participated in discussions with the Departments of Science of Religion and Hindu Studies at the University of Durban-Westville in Durban, South Africa, June 1. He presented "Genetics of Mosquitoes: Progress, Prospects and Future Directions" at the Sugarcane Association of South Africa in Mount Edgecombe, South Africa, June 4. He gave "Teachings of the Sikh Religion" and "Parasites and Vectors of Human Disease: Natural History, Distribution and Epidemiology" at the University of Durban-Westville in Durban, South Africa, June 5. He presented "Application of Molecular Techniques in Vector Genetics" at Witwatersrand University in Johannesburg, South Africa, June 8. He lectured on "American Perceptions on the Future of Biological Sciences" at the University of Orange Free State in Bloemfontein, South Africa, June 13. He gave "Graduate Education and Training in the United States" and "Publish or Perish: An American Syndrome" at the

University of Durban-Westville in Durban, South Africa, June 21-22. He gave the dinner lecture "The Research Enterprise in the U.S.: Evolution of the Publish and Perish Syndrome" and the keynote address "Genome Evolution in Mosquitoes" at the Genetics Society of South Africa biannual meeting in Helderfontein, Bryanston, South Africa, June 27-28. He presented "Dengue Research at the University of Notre Dame" at the Parasitology Society of South Africa biannual meeting in Mkuze, Natal, South Africa, July 4.

**Frank K. Reilly**, Hank professor of business administration, presented the paper titled "The Effect of Dual Listing: The Case of the Tokyo Stock Exchange" and attended the board of trustees meeting of the Eastern Finance Association in Charleston, S.C., April 5. He served as a panelist for "Investment Analysis and Risk Assessment of High Yield 'Junk Bonds' - A Portfolio Manager's Perspective" for the Investment Analysts Society of Chicago, Ill., April 26. He was a member of the CFA Exam grading staff for the Institute of Chartered Financial Analysts at the University of Virginia in Charlottesville, Va., June 16-22.

**Eugene Rochberg-Halton**, associate professor of sociology, was an invited participant in the symposium "The Future of Research Libraries" sponsored by the American Academy of Arts and Sciences at the University of Chicago, Chicago, Ill., June 5-6. He gave the invited lecture "Citymobile: The Airstream as Sign Vehicle" at the conference on the Socio-Semiotics of Objects held at the University of Toronto, Toronto, Canada, June 22-24. He presented the paper "The Corruption of Parametric Liberalism" at the American Sociological Association meeting in Washington, D.C., Aug. 12. He served as discussant for the session on social theory at that meeting.

**Rev. Timothy R. Scully**, C.S.C., assistant professor of government and international studies and senior faculty fellow in the Kellogg Institute, presented "Descontinuidades Historicas y la Politica Chilena" with David Collier of the University of California, Berkeley, at a conference given at CIEPLAN in Santiago, Chile, July 26.

**Michael M. Stanisc**, assistant professor of aerospace and mechanical engineering, presented the papers "Preliminary Design of an Exoskeleton Shoulder Joint Without Dead Position" and "Kinematic Mapping Between the EXOS Handmaster and the UTAH/MIT Dextrous Hand" at the IEEE international conference on Systems Engineering in Pittsburgh, Pa., Aug. 9.

**G.N.R. Tripathi**, professional specialist in the Radiation Laboratory, gave the paper "Transient Raman Studies of Chemical Reactions: OH Oxidation of Simple Aromatics" at the international conference on Laser Applications in Life Sciences held in Moscow, U.S.S.R., Aug. 27-31.

# The Graduate School

## Current Publications and Other Scholarly Works

Current publications should be mailed to the Research  
Division, Room 312, Main Building.

### COLLEGE OF ARTS AND LETTERS

#### Anthropology

Murphy, Martin F.

M.F. Murphy. 1990. The Need for a Re-evaluation of  
the Concept 'Informal Sector': The Dominican Case.  
Pages 161-181 in, M.E. Smith, ed., *Perspectives on the  
Informal Economy*. University Press, Lanham,  
Maryland.

#### Economics

Goulet, Denis A.

D.A. Goulet. 1989. Ethical and Ecological Consider-  
ations in Economic Development: The Survival of  
the Future. *Futures Research Quarterly* 5(4):5-21.

#### Government and International Studies

Mainwaring, Scott P.

S.P. Mainwaring. 1990. Democratization, Socio-  
Economic Disintegration, and the Latin-American  
Churches after Puebla. Pages 143-167 in, E.L. Cleary,  
ed., *Born of the Poor: The Latin American Church  
Since Medellin*. University of Notre Dame Press,  
Notre Dame, Indiana.

#### Romance Languages and Literatures

Doering, Bernard E.

B.E. Doering. 1990. The Philosopher and the  
Provocateur, Jacques Maritain and Saul Alinsky.  
*Commonweal* 117(11):345-348.

## Program of Liberal Studies

Crowe, Michael J.

M.J. Crowe. 1990. Duhem and the History and  
Philosophy of Mathematics. *Synthese* 83:431-447.

M.J. Crowe. 1990. History of Science: A Guide for  
Undergraduates (Preliminary Edition). History of  
Science Society, Worcester, Massachusetts. 20 pp.

Tillman, M. Katherine

M.K. Tillman. 1990. The Philosophical Habit of Mind:  
Aristotle and Newman on the End of Liberal  
Education. *Paideusis* 3(2):17-27.

### COLLEGE OF SCIENCE

#### Physics

Cushing, James T.

J.T. Cushing. 1990. Is Scientific Methodology  
Interestingly Atemporal? *British Journal for the  
Philosophy of Science* 41:177-194.

### LAW SCHOOL

Phelps, Teresa G.

T.G. Phelps. 1990. Narratives of Disobedience:  
Breaking/Changing the Law. *Journal of Legal  
Education* 40:133-143.

### RADIATION LABORATORY

Carmichael, Ian C.

I.C. Carmichael. 1990. Ab Initio Coupled-Cluster  
Calculations of Isotropic Hyperfine Splitting in Some  
Diatomic Hydrides. *The Journal of Physical Chemistry*  
94(15):5734-5740.

Weir, Douglas J.

D.J. Weir. 1990. Spectroscopy and Intermolecular  
Charge-Transfer Reactivities of Excited-State Radicals  
with Cyano Substituents. *Journal of Physical Chemistry*  
94(15):5870.

# The Graduate School

## Awards Received and Proposals Submitted

### AWARDS RECEIVED

In the period July 1, 1990, through July 31, 1990

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	3	487,139	21	1,337,537	24	1,824,676
Facilities and Equipment	0	0	1	22,033	1	22,033
Instructional Programs	1	84,498	2	9,425	3	93,923
Service Programs	0	0	8	45,372	8	45,372
Other Programs	<u>1</u>	<u>60,000</u>	<u>3</u>	<u>882,485</u>	<u>4</u>	<u>942,485</u>
Total	5	631,637	35	2,296,852	40	2,928,489

### PROPOSALS SUBMITTED

In the period July 1, 1990, through July 31, 1990

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	3	239,945	12	5,221,763	15	5,461,708
Facilities and Equipment	0	0	0	0	0	0
Instructional Programs	0	0	1	151,235	1	151,235
Service Programs	0	0	0	0	0	0
Other Programs	<u>0</u>	<u>0</u>	<u>1</u>	<u>111,753</u>	<u>1</u>	<u>111,753</u>
Total	3	239,945	14	5,484,751	17	5,724,696

# The Graduate School

## Awards Received

In the period July 1, 1990, through July 31, 1990

Department or Office	Principal	Short Title	Sponsor	Dollars Months
AWARDS FOR RESEARCH				
Aerospace and Mech. Eng.	Huang	Flow Field Modelling of Oil Formation	Shell Development Co.	25,000 12
Aerospace and Mech. Eng.	Nelson	Vortical Flow Interactions	McDonnell Douglas Corp.	32,930 12
Aerospace and Mech. Eng.	Nelson	Unsteady Surface Pressure on a Delta Wing	Department of the Air Force	28,686 12
Aerospace and Mech. Eng.	Lee	Post-Bifurcation Behavior of Wrinkles in Sheet Metal Forming	National Science Foundation	91,162 12
Biological Sciences	Lodge	ROA: Predation, Herbivory, and Disturbance	National Science Foundation	25,000 12
Biological Sciences	O'Tousa	Genetic Analysis of Retinal Degeneration in <i>Drosophila</i>	National Institutes of Health	125,210 12
Civil Engineering	Irvine	Immobilized Enzyme Treatment of Xenobiotic Organic Compounds	Occidental Chemical Corp.	75,000 37
Chemical Engineering	Varma	Optimal Design of Catalyst Pellets	North Atlantic Treaty Organization	7,800 12
Chemical Engineering	Wolf	STM Studies of Pt Catalysts	National Science Foundation	103,982 24
Chemistry and Biochemistry	Castellino	Mutant Fibrinolytic Proteins	National Institutes of Health	286,929 12
Chemistry and Biochemistry	Plashko, Helquist	Analysis of Mint Oil Components	Wm. Leman, Inc.	4,000 12
Government Intl. Studies	Loescher	Refugees and International Security	Intl. Institutes Strategic Studies	38,870 12
Government Intl. Studies	Loescher	The Unprotected: Internally Displaced People	Ford Foundation	50,000 12
History	Dolan	Hispanic Catholics in the 20th Century United States	Lilly Endowment, Inc.	294,775 36
Mathematics	Connolly, Wilczynski	Geometric Topology	National Science Foundation	46,100 24

# The Graduate School

Materials Science and Engineering	McGinn	Critical Current Density in Textured Superconductors	Purdue University	115,097 12
Materials Science and Engineering	Choudhary, Ruggiero	Study of Compositional Modulation in High Tc Superconductors	Purdue University	122,787 12
Physics	Tomasch, Blackstead	Microwave Dissipation in High Temperature Superconductors	Purdue University	174,983 12
Physics	Aprahamian	Nuclear Structure Research	National Science Foundation	52,653 12
Physics	Kolata	Grant Supplement Request	National Science Foundation	20,000 12
Program of Liberal Studies	Power	Moral Education for the New Millennium	J.D. and C.T. MacArthur Fdtn.	25,000 12
Program of Liberal Studies	Nicgorski	The Moral and Political Philosophy of Cicero	Earhart Foundation	9,657 4
Program of Liberal Studies	Crowe, Turpin	Calendar of the Correspondence of Sir John Herschel	National Science Foundation	58,870 12
Psychology	Anderson	Behavior-Based Health-Care Plan for the Elderly	The Laureate Group	10,185 12

## AWARDS FOR FACILITIES AND EQUIPMENT

Biological Sciences	Fuchs	Small Instrumentation Grant	National Institute of Health	22,033 12
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## AWARDS FOR INSTRUCTIONAL PROGRAMS

Biological Sciences	Lodge	REU Supplement: Predation, Herbivory and Disturbance	National Science Foundation	4,425 12
Cent. Educational Opportunities	Smith, Nelson	Minorities In Communications (Project Mass Comm)	Bowsher Booher Foundation	5,000 3
Psychology	Borkowski, Whitman	Research Training in Mental Retardation	National Institute of Health	84,498 12

## AWARDS FOR SERVICE PROGRAMS

Center for Social Concerns	McNeill	Center for Social Concerns	Various Others	2,000 1
Center for Social Concerns	McNeill	Center for Social Concerns	Various Others	2,796 1
ND Center for Pastoral Liturgy	Bernstein	Center for Pastoral Liturgy	Various Others	230 1
ND Center for Pastoral Liturgy	Bernstein	Center for Pastoral Liturgy - Publications	Various Others	444 1



# The Graduate School

Cent. Continuing Formation Min.	Pelton	Center for Continuing Formation in Ministry	Various Others	37,808 1
Inst. Pastoral and Social Ministry	Pelton	IPSM-Marketing Account	Various Others	1,004 1
Inst. Pastoral and Social Ministry	Pelton	IPSM-Dynamic Parish	Various Others	1,025 1
Latin/N. American Church Conc.	Pelton	LANACC	Various Others	65 1

## AWARDS FOR OTHER PROGRAMS

Electrical and Computer Eng.	Bernstein	IBM Technical Gifts Program	Intl. Business Machines	200,000 12
College of Arts & Letters	Hatch	Evangelical Scholars Project	Pew Charitable Trusts	667,485 37
Kellogg Institute Intl. Studies	Bartell	The Transition to Democracy in Paraguay	Inter-American Legal Services	15,000 12
Graduate School	Hatch	Arthur J. Schmitt Foundation	A.J. Schmitt Foundation	60,000 9

## Proposals Submitted

In the period July 1, 1990, through July 31, 1990

Department or Office	Principal	Short Title	Sponsor	Dollars Months
PROPOSALS FOR RESEARCH				
Aerospace and Mech. Eng.	Yang	Flow Stabilities in Box Heated from Below	Natl. Center for Supercomputing	0* 18
Aerospace and Mech. Eng.	Sen	Dispersion of Contaminants in Buildings	Center for Indoor Air Research	313,971 36
Aerospace and Mech. Eng.	Yang	Fire and Smoke Spread in Spaces	Natl. Center for Supercomputing	0* 12
Civil Engineering	Irvine, Gray, Brennecke, Varma, Serianni, Scheidt	CESRM	Environmental Protection Agency	3,750,000 36
Chemical Engineering	Varma, Miller	Synthesis of Reaction-Bonded Silicon Nitride	American Chemical Society	87,660 44

# The Graduate School

Chemical Engineering	Varma, Miller	Synthesis of Reaction-Bonded Silicon Nitride	Department of Energy	437,070 36
Chemistry and Biochemistry	Bumpus	Biodegradation of Jet Fuel	Department of the Air Force	329,919 36
Electrical and Computer Eng.	Antsaklis	Autonomous Space Craft Control Using Neural Networks	Jet Propulsion Laboratory	20,000 12
English	Robinson	Space and Time in Shakespeare's Later Plays	Natl. Endowment for the Humanities	81,717 12
Government Intl. Studies	Loescher	Refugees and International Security	Intl. Institute Strategic Studies	46,761 12
Government Intl. Studies	Loescher	The Unprotected: Internally Displaced People	Ford Foundation	60,150 12
Government Intl. Studies	Scully, Mainwaring	Building Democratic Institutions in Latin America	Ford Foundation	26,959 12
Romance Lang./Lit.	Olivera-Williams	Contemporary Women Fiction of the Southern Cone Countries	Natl. Endowment for the Humanities	51,767 13
Mathematics	Shaw	Solvability, Regularity and Embeddability of CR Structures	National Science Foundation	15,789 12
Physics	Newman	Studies of Ordering In Ternary and Multinary Semiconductors	Department of the Navy	239,945 36

## PROPOSALS FOR INSTRUCTIONAL PROGRAMS

O.S.I.P.A.	Borelli	NDSETS	National Science Foundation	151,235 19
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## PROPOSALS FOR OTHER PROGRAMS

Aerospace and Mech. Eng.	Lucey, Berger, Sen, Yang	NDEADC	University City Science Center	111,753 12
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# Notre Dame

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# R E P O R T

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**September 14, 1990**

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