

notre dame report

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the university

ceremony marks rome center restoration

Rev. Theodore M. Hesburgh, C.S.C., University President, officiated at ceremonies marking the dedication of the newly renovated architecture center in Rome Jan. 16.

Thirty-five third-year American students and six faculty members are involved in the University's Rome Studies Program, which since 1969 has offered courses in architectural design, architectural and urban studies and visual studies. The curriculum also provides for field trips to Venice, Florence, Paris and Sicily. Prof. Francesco Montana is director of the program and the center, which includes a studio, classrooms, lecture and seminar rooms; a library and offices.

snite receives drawings by french, italian masters

What has been described as the "most significant group of drawings ever presented to the University" has been received by Snite Museum of Art officials and is being prepared for a fall exhibit. The collection of Old Master through 19th century drawings represents works of several noted Italian and French artists.

Jack Reilly of The Plains, Va., who received degrees at Notre Dame in 1963 and 1964, acquired the collection which was formed by the late John Minor Wisdom, former curator at the Houston Museum of Fine Arts and the Ackland Art Museum at the University of North Carolina, Chapel Hill. The collection is on a long-term loan as a promised gift.

accounting firm pledges \$100,000 to end program

Officials of the Peat Marwick accountancy firm of Chicago have renewed a commitment to the College of Business Administration with a pledge to supply cash gifts totaling \$100,000 over the next five years.

Annual gifts of \$22,500 for a Peat Marwick Professorship in Accountancy and \$2,500 for an unrestricted gift to the Department of Accountancy are included in the pledge. The faculty member supported by the professorship would also serve as advisor to the Beta Alpha Psi honorary accountancy society on the campus.

The gift was announced at a meeting Dec. 11, attended by Maurice J. DeWald, managing partner of the Chicago office, and James P. Breen, associate manager, with Leonard M. Savoie, chairman of accountancy at Notre Dame. DeWald is a 1963 graduate of Notre Dame and Breen is a 1974 graduate.

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faculty notes

honors

Patrick Horsbrugh, professor emeritus of architecture and an honorary member of the American Society of Landscape Architects, has been appointed to represent the Society on a new coalition of the American Water Resources Association, The National Water Alliance and the American Society of Public Administration, to prepare a national program leading to the development of consistent regional and national water policies.

Douglas W. Kmiec, professor of law and director of the Thomas and Alberta White Center on Law and Government, has been appointed deputy assistant attorney general in the U.S. Department of Justice. Kmiec, who has been granted a leave of absence to accept the Washington job, is a specialist in property and land use. He served as a White House Fellow in the U.S. Department of Housing and Urban Development in 1982-83 and received HUD's highest award. He joined the Notre Dame law faculty in 1980.

Lee A. Tavis, C.R. Smith professor of business administration, has been appointed to the Inter-American Foundation Doctoral Fellowship Selection Committee.

activities

Kathleen A. Biddick, assistant professor of history, gave an invited lecture titled "Living in a Material World: Beyond the Boundaries of Medieval Archaeology and History" at the Medieval Institute, Western Michigan University, Kalamazoo, Jan. 16.

Maureen Barry McCann Boulton, assistant professor of modern and classical languages, has been reappointed to the board of advisors of the Society for Textual Studies.

Maura Aiken Daly, assistant professor of modern and classical languages, delivered the keynote lecture, "Gnosticism and Simone Weil," at a meeting of the Association pour l'etude de la pensee de Simone Weil in Paris, France, Jan. 11.

Grace D. Dawson, program associate in the Center for Gerontological Education, Research and Services, presented an invited paper, "Aging and Intelligence," for "A Symposium on the Scientific Study of Aging" at the 101st annual meeting of the Indiana Academy of Science, held at Indiana University, Bloomington, Nov. 16.

Sonia G. Gernes, associate professor of English, has received a Fulbright award to lecture in American literature at the University of Waikato, Hamilton, New Zealand.

Christopher S. Hamlin, assistant professor of history, presented a paper titled "Changing Measures of Water Quality, 1850-1900" at the annual meeting of the American Society for Environmental History at the American Historical Association meeting in New York, N.Y., Dec. 28.

Scott Mainwaring, assistant professor of government and international studies, presented a paper on "The Survival of Democracy and the Authoritarian Right" at a conference on "Opportunities and Dilemmas of the Consolidation of Democracy in Latin America" in Sao Paulo, Brazil, Dec. 17. He also chaired a panel on "Religion and Politics in Central America" at a meeting of the American Society of Church History in New York, N.Y., Dec. 28, and presented a paper on "Ecclesial Base Communities and Politics in Brazil" at the American Historical Association meetings in New York, Dec. 30.

Haynes R. Miller, professor of mathematics, presented an invited address on "The Rigidity of Classifying Spaces" at the 92nd annual meeting of the American Mathematical Society, New Orleans, La., Jan. 8.

Kenneth E. Moore, associate professor of anthropology, was an invited participant in the fourth annual Key West Literary Festival and Seminar Jan. 9-12. He was joined by poet and biographer John Malcolm Brinnin and founder and director of New Directions Press, James Laughlin, in a seminar titled, "Tennessee Williams, The Playwright as Poet."

Leonard E. Munstermann, assistant faculty fellow in biological sciences, presented a paper (co-authored by J.L. Petersen and A. Marchi) titled "Systematics of Neotropical *Sabethes* Mosquitoes: Cytogenetic Maps and Electrophoretic Variability" at the national meeting of the Entomological Society of America, Hollywood, Fla., Dec. 11.

Carl W. O'Neill, chairman and professor of anthropology, presented a paper titled "Primary and Secondary Effects of Violence Control Among the Nonviolent Zapotec" at a meeting of the American Anthropological Association, Washington, D.C., Dec. 4-8.

Michael K. Sain, Freimann professor of electrical engineering, is coauthor of two papers, "An Application of Volterra Series to the Design of Nonlinear Feedback Controls" (with Samir A. Al-Baiyat) and "Feedback Equivalence of Nonlinear Systems Using Tensor Analysis" (with Joseph A. O'Sullivan), which were presented at the 23rd Allerton Conference on Communication, Control and Computing in Monticello, Ill., in October. He also served as a panelist for "Successful Applications of Control Systems" at the Control Systems Conference of the Indiana Corporation for Science and Technology, held in Indianapolis Nov. 14, and gave a seminar on "Nonlinear Control Design with

Gas Turbine Applications" for the School of Aeronautics at Purdue University, West Lafayette, Ind., Nov. 15. He is coauthor (with Bostwick F. Wyman) of a paper titled "Zero Modules for Systems," presented at the Conference on Decision and Control of the Institute of Electrical and Electronics Engineers, held in Fort Lauderdale, Fla., Dec. 10-13.

Thomas J. Schlereth, professor of American Studies, presented a paper, "Solon S. Beman, 1853-1914: The Social History of a Midwest Architect," to the Chicago Society of Architects at The Art Institute of Chicago Dec. 12.

Robert P. Schmuhl, assistant professor of American Studies, presented remarks on "The Ethics of 'Creative Truth-Telling'" at a session of the District V conference of the Council for Advancement and Support of Education in Chicago Dec. 9.

James H. Seckinger, director of the National Institute for Trial Advocacy (NITA) and professor of law, served as faculty member for the following NITA programs: Teacher Training Program, Berkeley, Calif., Nov. 15-16; Houston Advanced Program, University of Houston (Tex.) School of Law, Nov. 17-22; Negotiation Program, Chicago, Ill., Dec. 5-7; and Gulf Coast Regional Program, New Orleans, La., Jan. 2-6. He also was a guest speaker at an executive meeting of the American Board of Trial Attorneys, Tucson, Ariz., Jan. 17, and served as a NITA faculty member at the Bishop, Liberman, Cook, Purcell & Reynolds In-House Trial Advocacy Skills Program, Washington, D.C., Jan. 22-25.

Brian Smyth, professor of mathematics, gave an invited talk on "The Geometry of Bounded Solutions of the Sinh-Gordon Equation," at the American Mathematical Society meeting held in Columbia, Mo., Nov. 1.

Lee A. Tavis, C.R. Smith professor of business administration, presented a paper and chaired a session on Multinational Corporations and Poverty at the National Bentley Conference on Business Ethics, Boston, Mass., Oct. 10, and chaired a session on "Perspectives in Teaching Cases" at the annual meetings of the Financial Management Association, Denver, Colo., Oct. 11.

M. Katherine Tillman, associate professor in the Program of Liberal Studies, presented a paper titled "Newman's Use of Imagination in Intellectual Education" at the fourth annual Newman Conference, St. Thomas of Villanova University, Miami, Fla., Jan. 6.

Chris R. Vanden Bossche, assistant professor of English, presented a paper, "Of Ruskin's, Hunt's, and Maud's Gardens and the Chivalric Ideal," at the annual meeting of the Modern Language Association, Chicago, Ill., Dec. 29.

Arvind Varma, chairman and professor of chemical engineering, presented an invited graduate seminar titled "Optimal Catalyst Activity Profiles in Pellets" at the Department of Chemical Engineering, University of Rochester, N.Y., Dec. 12.

advanced studies

current publications and other scholarly works

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

COLLEGE OF ARTS AND LETTERS

American Studies

Schlereth, Thomas J.

T.J. Schlereth. 1985. Historians and
Material Culture. Organization of Ameri-
can Historians Newsletter 13(4):3-5.

Communication and Theatre

Falkenberg, Pamela R.

P.R. Falkenberg. 1985. "Hollywood" and the
"Art Cinema" as a Bipolar Modeling System.
Wide Angle 7(3):44-53.

P.R. Falkenberg. 1985. Review of Hollywood
and the Catholic Church: The Image of Roman
Catholicism in American Movies and The
Hew in American Cinema. America 153(10):
246-247.

Economics

Bonello, Frank J.

F.J. Bonello. 1985. Government Deficits
and the Public Debt: The Endless Contro-
versy. Journal of Applied Business
Research 1:22-35.

Ghilarducci, M. Teresa

M.T. Ghilarducci and T.R. Swartz. 1985.
The Economics and Politics of Tax Reform:
A Comment on Congressman Kemp's Article.
Journal of Legislation 12(1):156-162.

Kim, Kwan S.

K.S. Kim and D.F. Ruccio. 1985. Editors.
Debt and Development in Latin America.
University of Notre Dame Press, Notre Dame,
Indiana. 226 pp.

Ruccio, David F.

See under Kim, Kwan S. 1985. Debt and
Development in Latin America.

Swartz, Thomas R.

See under Ghilarducci, M. Teresa. 1985.
Journal of Legislation 12(1):156-162.

History

Critchlow, Donald T.

D.T. Critchlow. 1985. Review of F.
Roland's, Model Research: The Nation-

- al Advisory Committee for Aeronautics, I & II. Science 230(479):130-131.
- D.T. Critchlow. 1985. Review of R.J. Lustig's, Corporate Liberalism: The Origins of Modern American Political Theory, 1890-1920. The Public Historian 7(2):98-100.

Modern and Classical Languages

- Doering, Bernard E.
B.E. Doering. 1985. Jacques Maritain's Friendship with Dorothy Day. The New Oxford Review 52(10):16-23.
- Program of Liberal Studies
- Crowe, Michael J.
M.J. Crowe. 1985. Review of S. O'Donnell's, William Rowan Hamilton: Portrait of a Prodigy. Isis 76:447-448.

- Goddu, Andre L.
A.L. Goddu. 1985. Avicenna, Avempace and Averroes--Arabic Sources of "Mutual Attraction" and Their Influence on Mediaeval and Modern Conceptions of Attraction and Gravitation. Miscellanea Mediaevalia 17:218-239.

Psychology

- Anderson, D. Chris
D.C. Anderson, C.R. Crowell and L. Siroky. 1985. Activity, Startle Magnitude, and Prolonged Food and Water Deprivation: Two Further Failures of Duplicate. Bulletin of the Psychonomic Society 23(4):423-426.
- Crowell, Charles R.
See under Anderson, D. Chris. 1985. Bulletin of the Psychonomic Society 23(4): 423-426.

Sociology

- Hallinan, Maureen T.
M.T. Hallinan. 1986. School Organization and Interracial Friendships. Chapter 9, pages 167-184 in, D. Valerian and B. Winstead, eds., Friendship and Social Interaction. Springer-Verlag, New York, New York.

Theology

- Blenkinsopp, Joseph
J. Blenkinsopp. 1985. The Documentary Hypothesis in Trouble. Bible Review 1(4):22-32.
- Coll, CSJ, Regina A.
R.A. Coll, CSJ. 1985. The Exodus of Sisters. Ishvani Kendra, Pune, India. 40 pp.
- Collins, Adela Y.
A.Y. Collins. 1985. Revelation to John, The: Punishment, Everlasting; Immortality; Heaven; Hades; Vision; Pergamum; Lord's Day; Patmos; Avenger; Smyrna; Throne; Second Death. Volume 1, pages 868-870;

- 842-843; 419-420; 365; 377; 1114-1115; 771-772; 574-575; 755-756; 81; 960-961; 1067-1068; 920-921 in, P.J. Actemeier, ed., Harper's Bible Dictionary. Harper and Row, New York, New York.

COLLEGE OF SCIENCE

Biological Sciences

- Craig, Jr., George B.
G.B. Craig, Jr. and D.B. Taylor. Undirectional Reproductive Incompatibility Between *Aedes* (Protomacleana) brelandi and *A. (P.) hendersoni* (Diptera: Culicidae). Annals of the Entomological Society of America 78:769-774.

Chemistry

- Scheidt, W. Robert
G.P. Gupta, G. Lang, W.R. Scheidt, D.K. Geiger and C.A. Reed. 1985. Mossbauer and Susceptibility Study of Inter-heme Spin Coupling in $[\text{Fe}(\text{OEP})(2\text{-MeHIm})]^+$ Dimers. Journal of Chemical Physics 83(11):5945-5952.

COLLEGE OF ENGINEERING

Aerospace and Mechanical Engineering

- Huang, Nai-Chien
N.C. Huang and S.G. Russell. 1985. Hydraulic Fracturing of a Saturated Porous Medium-I: General Theory. Theoretical and Applied Fracture Mechanics 4:201-213.
- N.C. Huang and S.G. Russell. 1985. Hydraulic Fracturing of a Saturated Porous Medium-II: Special Cases. Theoretical and Applied Fracture Mechanics 4:215-222.

Chemical Engineering

- Varma, Arvind
M. Morbidelli and A. Varma. 1985. On Parametric Sensitivity and Runaway Criteria of Pseudohomogeneous Tubular Reactors. Chemical Engineering Science 40:2165-2168.

Civil Engineering

- Gray, William G.
See under Kinnmark, Ingemar P. 1985. Advances in Water Resources 8(3):129-135.
- Kinnmark, Ingemar, P.
I.P. Kinnmark and W.G. Gray. 1985. The 2 x -Test: A Tool for Analyzing Spurious Oscillations. Advances in Water Resources 8(3):129-135.
- Spencer, Jr., Billie F.
B.F. Spencer, Jr. and L.A. Bergman. 1985. On the Reliability of a Simple Hysteretic System. ASCE Journal of Engineering Mechanics 111(12):1502-1514.

Electrical Engineering

Michel, Anthony N.

M.S. Mousa, R.K. Miller and A.N. Michel. 1985. Stability Analysis of Hybrid Composite Dynamical Systems: Descriptions Involving Operators and Differential Equations. Pages 1422-1427 in, Proceedings of the 24th IEEE Conference on Decision and Control. Fort Lauderdale, Florida.

Sain, Michael K.

B.F. Wyman and M.K. Sain. 1985. On the Design of Pole Modules for Inverse Systems. IEEE Transactions on Circuits and Systems CAS-31(10):977-988.

B.F. Wyman and M.K. Sain. 1985. Module Theoretic Zero Structures for System Matrices. Pages 514-518 in, Proceedings of the 24th IEEE Conference on Decision and Control. Fort Lauderdale, Florida.

B.F. Wyman and M.K. Sain. 1985. Poles, Zeros, and Lattices. Contemporary Mathematics 47:497-506.

Metallurgical Engineering and Materials Science

Sinha, Anil K.

A.K. Sinha and J.J. Moore. 1986. Study of Precipitation and Growth of γ' and Dislocation Structure in Inconel X-750. Metallography 19(1):75.

A.K. Sinha and J.J. Moore. 1986. Precipitation of $M_{23}C_6$ Carbides in an Aged Inconel X-750. Metallography 19(1):87.

COLLEGE OF BUSINESS ADMINISTRATION

Management

Vecchio, Robert P.

M. Sussmann and R.P. Vecchio. 1985. Conceptualizations of Valence and Instrumentality: A Fourfold Model. Organizational Behavior and Human Decision Processes 36:96-112.

LAW SCHOOL

Bauer, Joseph P.

J.P. Bauer and E.W. Kintner. 1986. 1986 Supplement to Federal Antitrust Law Treatise, Volume I. Anderson Publishing Company, Cincinnati, Ohio. 18 pp.

J.P. Bauer and E.W. Kintner. 1986. 1986 Supplement to Federal Antitrust Law Treatise, Volume II. Anderson Publishing Company, Cincinnati, Ohio. 130 pp.

J.P. Bauer and E.W. Kintner. 1986. 1986 Supplement to Federal Antitrust Law Treatise, Volume III. Anderson Publishing Company, Cincinnati, Ohio. 20 pp.

RADIATION LABORATORY

Das, Paritosh K.

K. Bobrowski and P.K. Das. 1985. Transient Phenomena in the Pulse Radiolysis of Retinyl Polyenes. 3. Radical Cations. Journal of Physical Chemistry 89:5079.

Hardwick, John L.

J.L. Hardwick and C.J. Seliskar. 1985. Sigma Bands in the Near-Ultraviolet Absorption Spectrum of $^{12}C^{34}S_2$. Journal of Molecular Spectroscopy 113:275-285.

awards received

IN THE MONTH OF DECEMBER, 1985

Department or Office	Principal	Short title	Sponsor	Dollars Months
AWARDS FOR RESEARCH				
College Science	F. Castellino	Blood Coagulation Protein-Metal Ion-Lipid Interactions	Natl. Inst. Health	165,031 12
Civil Eng.	W. Gray	Finite Element Model for Surface Flow Simulation	Natl. Sci. Fdn.	36,896 12
Mathematics	A. Sommesse	Transcendental Algebraic Geometry	Natl. Sci. Fdn.	42,700 12
Aerospace Mech. Eng.	K.T. Yang	Requisition for Computer Time on Purdue CYBER-205 Supercomputer	Natl. Sci. Fdn.	-- 12
Biological Sciences	C. Kulpa	Characterization of Microbial Consortium	Amoco Chemicals Res. Center	800 1
Government Intl. Studies	G. Loescher	Asylum Policies of Major Countries and The Refugee Regime	Inst. Study World Politics	16,250 5
Radiation Lab.	W. Huo, R. Schuler	Electron-, Photon-, and Molecule- Molecule Collision Cross Sections	Natl. Aero. Space Admin.	77,952 12
Biology	S. Carpenter	Cascading Trophic Interactions in Lake Ecosystems	Univ. Wisconsin Madison	79,372 36

AWARDS FOR FACILITIES AND EQUIPMENT

Physics	U. Garg	BGO Detector Systems	Argonne Natl. Lab.	36,000 6
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AWARDS FOR SERVICE PROGRAMS

Inst. Past. Soc. Min.	R. Pelton	Notre Dame Institute for Clergy Education	---	900 --
Inst. Past. Soc. Min.	E. Bernstein	Notre Dame Center for Pastoral Liturgy	---	8,868 --
Inst. Past. Soc. Min.	E. Bernstein	Notre Dame Center for Pastoral Liturgy-Publications	---	1,762 --
Inst. Past. Soc. Min.	S. Kelly	Programs for Church Leaders	---	1,800 --
Inst. Past. Soc. Min.	J. Gremillion	Institute for Pastoral and Social Ministry-Parish Study Phase III	---	440 --

AWARDS FOR OTHER PROGRAMS

Philosophy	M. Detlefsen	Inferential vs. a Semantical Conception of Logic	Intl. Res. Exchanges Bd.	1,900 19.5
Advanced Studies	R. Gordon	Arthur J. Schmitt Fellowship Program	A.J. Schmitt Fdn.	75,000 9

proposals submitted

IN THE MONTH OF DECEMBER, 1985

Department or Office	Principal	Short title	Sponsor	Dollars Months
PROPOSALS FOR RESEARCH				
Chemical Eng.	D. Leighton	Mechanisms of Shear Thinning	Eng. Fdn.	40,450 12
Philosophy	H. Wettstein	A Theory of Direct Reference	J.S. Guggenheim Mem. Fdn.	45,100 12
Advanced Studies	R. Gordon	Biomedical Research Support Grant 1986-87	Natl. Inst. Health	-- 12
Chemical Eng.	M. McCready	Simulation of Mass Transfer	Natl. Sci. Fdn.	49,674 12
Psychology	D. Anderson	Behavior Management Applications in the Printing Industry	The Lakeside Press	22,425 12
Biological Sciences	F. Goetz	Hormone Levels in Teleost Fish	North Atlantic Treaty Organ.	6,800 12
Biological Sciences	S. Carpenter	Cascading Trophic Interactions	Natl. Sci. Fdn.	656,356 60
Physics	V. Kenney, N. Biswas, J. Losecco	HEP Hadron-Hadron Colliding Beams/ Non-Accelerator Physics	Natl. Sci. Fdn.	1,234,570 36
Physics	W. Shephard, N. Cason, R. Ruchti	Experimental Elementary Particle Physics Research	Natl. Sci. Fdn.	1,522,198 36
Chemical Eng.	M. McCready	Study of Energy Transfer in Capillary Waves	Dept. Navy	193,450 36
Physics	S. Ruggiero	Resonant-Tunneling Effects in Multilayer Systems	Dept. Army	275,894 36
Chemistry	J. Kozak	Thermodynamic Consistency in Theories of Classical Fluids	Natl. Sci. Fdn.	265,301 36

Electrical Eng.	M. Herro	Code Performance Analysis for Antijam Communication Systems	Dept. Navy	241,029 36
Physics	J. Cushing	The Interpretation of Scientific Laws and Theories	Natl. Sci. Fdn.	40,340 14
Biological Sciences	P. Klebba	Ferric Enterobactin Receptor in <i>Escherichia coli</i>	Dept. Navy	228,113 36
Electrical Eng.	W. Davisson, J. Ubran	Simulation for Education	I.K. Mem. Grant Fund	8,666 12
Physics	W. Shephard, N. Cason, R. Ruchti	Equipment for Fermilab E687	Natl. Sci. Fdn.	76,000 12

PROPOSALS FOR FACILITIES AND EQUIPMENT

Metallurgical Eng.	Miller, Crowell, Johnson	A Learning Resource Facility for Elementary and Secondary Schools	Corvus Systems, Inc.	30,000 12
Chemical Eng.	E. Wolf, J. Carberry, A. Varma	X-ray Photoelectron Spectrometer	Dept. Energy	290,970 12
Metallurgical Eng.	T. Kosel	Advanced Chemical and Image Analysis Research Equipment	Dept. Energy	127,750 12
Electrical Eng.	W. Berry, Y. Kwor	EREG: Surface Profiler	Natl. Sci. Fdn.	35,135 12

PROPOSALS FOR INSTRUCTIONAL PROGRAMS

Cent. Educ. Oppor.	J. King, T. Broden	Upward Bound	Dept. Education	402,602 12
Electrical Eng.	J. Ubran, W. Davisson	Emulation for Education	I.K. Mem. Grant Fund	8,743 12

PROPOSALS FOR OTHER PROGRAMS

Law School	T. Broden	Law School Clinic	Legal Services Corp.	29,023 3
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summary of awards received and proposals submitted

IN THE MONTH OF DECEMBER, 1985

AWARDS RECEIVED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	6	402,751	2	16,250	8	419,001
Facilities and Equipment	0	0	1	36,000	1	36,000
Instructional Programs	0	0	0	0	0	0
Service Programs	0	0	5	13,770	5	13,770
Other Programs	1	75,000	1	1,900	2	76,900
Total	7	477,751	9	67,920	16	545,671

PROPOSALS SUBMITTED

Category	Renewal		New		Total	
	No.	Amount	No.	Amount	No.	Amount
Research	6	2,283,779	11	2,622,587	17	4,906,366
Facilities and Equipment	0	0	4	483,855	4	483,855
Instructional Programs	1	402,602	1	8,743	2	411,345
Service Programs	0	0	0	0	0	0
Other Programs	1	29,023	0	0	1	29,023
Total	8	2,715,404	16	3,115,185	24	5,830,589

notre dame report

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