

CURRICULUM VITAE

November 9, 2016

WALTER R. T. WITSCHHEY

OFFICE

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Longwood University
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Web: <http://www.longwood.edu/staff/witschheywr/>;

<http://MayaGIS.smv.org>; <http://Muyil.SMV.org>

Research Fellow, Middle American Research Institute, Tulane University

Research Fellow, Institute of Archaeology, Longwood University

Past President – Virginia Academy of Science

Past President – Association of Science-Technology Centers

Co-PI: Electronic Atlas of Ancient Maya Sites

HOME

422 Hampden Lane
Farmville, VA 23901

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EDUCATION

TULANE UNIVERSITY 1985 - 1992;

Ph.D. (Anthropology: Maya archaeology) May 1993;

M.A. (Anthropology: Maya archaeology) December 1989

Department of Anthropology Dissertation Title: **The Archaeology of Muyil, Quintana Roo, Mexico: A Maya Site on the East Coast of the Yucatan Peninsula**

Dissertation Committee: E. Wyllys Andrews V, Harvey M. Bricker, Dan M. Healan

M.A. Thesis Title: **An Architectural Seriation of the Prehispanic Structures at Muyil, Quintana Roo, Mexico**

IBM CORPORATION 1965 - 1969

(Professional development program, post-M.B.A.)

Systems design, systems analysis, computer operations, programming, scientific systems, time-sharing systems, medical computer systems applications. (600+ classroom hours)

UNIVERSITY OF VIRGINIA 1963 - 1965; M.B.A. (Operations Research)

The Colgate W. Darden Graduate School of Business Administration

Advisor: Norbert W. Enrick

Supervised Business Study title: **Graphic Solutions for a Two-Failure Queue.**

PRINCETON UNIVERSITY 1959 - 1963 B.A. (Physics)

Advisor: Gerard K. O'Neill

Senior Thesis title: **The Dependence on Pressure of Spark Location, Spark Width, and Spark Efficiency in a Spark Chamber.**

PROFESSIONAL EXPERIENCE / APPOINTMENTS

Longwood University; Secretariat of Education; Commonwealth of Virginia

- 2014-present Research Professor of Anthropology and Geography
2007-2014 Professor of Anthropology and Science Education; dual appointment to the Department of Sociology, Anthropology, and Criminal Justice Studies, and to the Department of Biological and Environmental Sciences; Cook-Cole College of Arts and Sciences.

Science Museum of Virginia; Secretariat of Education; Commonwealth of Virginia

- 2007-present Director Emeritus
1992-2007 Director (Chief Executive Officer) reporting to the Secretary of Education and the Governor. Four sites; three National Register Buildings, including two historic train stations; \$9+ million/year operating budget; \$4 million/year capital budget; \$8 million endowment; 80 full-time, 60 part-time staff; 1,100 volunteers, four 501 (c)(3) foundations, seven Boards.

University of Richmond

- 2006-2007 Leader-in-Residence, Jepson School of Leadership Studies

Virginia Commonwealth University

- 2006-2007 Professor of Life Sciences
1992-2001 Adjunct Faculty – Department of Sociology and Anthropology; and Department of Mathematical Sciences.

Tulane University

- 1985 - 1992 (while enrolled as a full-time student)
Department of Anthropology, Lecturer, 1987 - 1992
Center for Archaeology, Assistant to the Director, 1987/88
University College, Lecturer, Data Processing Curriculum consultant, 1988 - 1992
A. B. Freeman School of Business, Adjunct Instructor, 1991
And independent computer consultant

Our Lady of Holy Cross College

- 1989 - 1992, Lecturer, Microcomputer Applications

Delgado Community College

- 1989 Instructor, Word Processing, Database Management

University of Virginia

- 1985 - 1986 The Colgate W. Darden Graduate School of Business Administration, Visiting Instructor, spring semester, Computer Systems Management; Database Management.

Gatewood Company (a proprietorship)

- 1978 - present: publishing; computer systems, business, GIS, and philanthropic consulting

The Computer Company Richmond, Virginia

1969 - 1984 Co-founder, Director, CEO

1970 - 1984 President / Chief Executive Officer

1969 - 1970 Vice-President

Built the business from zero to a profitable \$35 million annual sales enterprise with 1200 employees. Specialties: Medicaid fiscal agent services and claims processing, APL time-sharing, Airline strategic decision systems, library retrospective conversion, microform production.

In 1983, arranged for the sale of the company to Blue Cross and Blue Shield of Virginia, Inc. Served as President and CEO under Blue Cross ownership from May 1983 until March 1984 when released from a three-year employment contract by my own request.

The corporation survives today as First Health Services, located in Richmond, Virginia. See http://www.firsthealth.com/news/company/fact/fh_fhscfact.html

IBM Corporation Richmond, Virginia

1965 - 1969

1967 - 1969 Schools / Colleges / Hospitals Marketing Representative

1965 - 1967 Scientific Systems Engineer

UNIVERSITY COURSES TAUGHT

Longwood University

Sustainability Failure: The Classic Maya Collapse (ANTH 295) Spring 2009
Introduction to Anthropology (ANTH 101) Fall 2008, Fall 2009, Spring 2010, Fall 2010, Spring 2011, Fall 2011, Spring 2012, Fall 2012, Spring 2013, Fall 2013, Spring 2014.
Introduction to Geographic Information Systems (EASC/GEOG 275),
Fall 2007; Spring 2008, Fall 2008, Spring 2009, Fall 2009, Spring 2010, Fall 2010, Spring 2011, Fall 2011, Spring 2012, Fall 2012, Spring 2013, Fall 2013, Spring 2014.
Comparative Early Civilizations (ANTH 275) Spring 2008
Cultural Geography (GEOG 275) Fall 2009
The Ancient Maya (ANTH 295) Fall 2007

Virginia Commonwealth University

Introduction to Computing with FORTRAN (CSC 201, Fall 1992)
Early Cities and States (ANT 391, Spring 1995)
Preconquest Maya (ANT 391, Spring 1996)
The Inca and their ancestors (ANT 391, Spring 1997)
Ancient Maya (ANT 391, Spring 1998)
America's Ancient Cities and States (Commonwealth Society, Fall 1998)
Early Civilizations (ANT 391, Spring 1999)
The Inca and their ancestors (ANT 391, Spring 2000)
The Greatest Maya Cities (ANT 391, Spring 2001)
The Maya Collapse (ANT 391, Spring 2007)

Tulane University, A. B. Freeman School of Business

Computer Information Systems (IS-478, Spring 1991)

Tulane University, University College

Early Cities and States (Anthropology 309, 1988)
Human Origins (Anthropology 101, Summer 1989, Summer 1990)
Invited lecture in "Olmec and Maya": The Archaeology of the East Coast of Quintana Roo. (1987)
Elementary COBOL Programming (CIS-140, Spring 1989, Fall 1989, Fall 1990, Spring 1991)
BASIC Programming (CIS-150, Fall 1990)
PASCAL Programming (CIS-160, Summer 1990, Summer 1991)
Introduction to Computer Information Systems (CIS-110, Fall 1989)
Seminars on PC Applications (1987/88): PC/MS-DOS; AutoCAD; WordPerfect;
Minitab; dBase II/III; AutoCAD for Archaeologists
Introduction to the AutoCAD Operating Environment (ISC18.I-PR, 1988)
Introduction to AutoCAD Systems (1988)
FORTRAN Programming (Fall 1991)
Introduction to Microcomputers (Fall 1991)

Our Lady of Holy Cross College

Computer Literacy & Microcomputers (Spring, Summer, Fall 1989, Fall 1990, Spring, Fall 1991)
Introduction to Microcomputers for Professionals (Summer, Fall 1989)
Introduction to Structured Programming: BASIC (Fall 1990)
Business Communications (Fall 1991)

Delgado Community College

Database Management (Spring 1989)
Word Processing (Spring 1989)

University of Virginia

Four invited case studies and laboratories in Computer Systems Management (1986); General Mathematics (1964)

OTHER COURSES TAUGHT

The Computer Company (1969 - 1984)

APL Programming	PERT Scheduling
FORTRAN Programming	Cost Accounting
BASIC Programming	Profit Performance
Effective Use of Visual Aids	Divisional Budget Methods
Data Base Design and Management	Linear Programming Techniques
Critical Path Method Scheduling	MEDICAID Claims Processing

Richmond Public Schools/Mathematics and Science Center (1967 - 1970)

Computers and FORTRAN

IBM Corporation (1965 - 1969)

1620 FORTRAN Programming	Critical Path Method Scheduling
1130 FORTRAN Programming	PERT Scheduling
360 FORTRAN Programming	COGO Programming for Civil Engineers
COBOL Programming	Linear Programming Techniques
APL Programming	Medical Computer Applications

Science Museum of Virginia

Sundial History and Construction 1983

COMPUTER LANGUAGE AND SYSTEMS EXPERIENCE

Machine language (IBM 1620, Intel 8088, 8086)	Minitab
Symbolic Assembly Language (IBM 1620, 1130/1800, 360/370, PC)	LPS (IBM)
FORTRAN (IBM 1620, 7040/44, 1130/1800, 360/370, 3081, PC, DEC VAX)	APL STATPAK
COBOL (IBM 360/370/3081, PC)	Wordstar, Wordperfect, Displaywrite, MS WORD
COGO (IBM 1620, 1130, 360/370)	AutoCAD, AutoLISP, ProDesign, DesignCAD
FORMAC (IBM 7044)	dBase II, III, III+, IV,
STRESS (IBM 360)	Lotus 1-2-3, Visicalc, Excel, Quattro Pro
GPSS (IBM 7044)	Communications Programs
CSMP (IBM 1130)	Graphics programs, Harvard Graphics, Powerpoint
SNOBOL (IBM PC - Minnesota)	Satellite (Digital) Imagery Processing Programs
PROLOG (IBM PC)	General Ledger Accounting Systems
LOGO (IBM PC)	Contour and Trend Surface Analysis Systems
APL (IBM 1130, 360, 370, PC)	Medicaid Claims Processing Systems
BASIC (various)	CMS
ALGOL (Burroughs 5500)	FoxPro 1, 2, 2.5 LAN
PASCAL (IBM PC, 370)	MS Access
PL/I (IBM 360/370)	MS Project
IBM 360/370 DOS, OS, VS, VM, MUSIC, CPS	Adobe Photoshop
IBM PC and compatibles, MS-DOS	Quark Express
SPSS (IBM 360)	Hypertext Markup Language / CSS
BMDP (DEC, IBM)	Adobe Frontpage and Premier
Adobe Postscript	ArcGIS through version 10.2
MindManager	iThink (systems modeling & differential equations)
Adobe Premier	AutoBox (Box-Jenkins time series forecasting)
	Keyhole Markup Language
	Python

NATURAL LANGUAGES

Adequate in Spanish; Working knowledge of Yucatec Maya; Once able to speak and read German.

RESEARCH INTERESTS

Archaeology

Settlement Pattern Theory and Application: Electronic Atlas of Ancient Maya Sites GIS Project, with Dr. Clifford Brown

Archaeology and settlement patterns of Eastern Mexico (lowland Maya), especially the east coast of Quintana Roo.

Computational methods, statistical methods, satellite and aerial remote sensing and computer preparation and presentation of archaeological data, artificial intelligence.

Computer Systems

Geographic Information Systems; Data base design, graphics systems and displays, personal computer applications and techniques; neural network applications.

Science Education

Informal science education; formative and summative evaluation; management of the non-collecting museum; brain development; science standards of learning science centers as classroom extensions.

Business Management

Quantitative Analysis, Management Information Systems, Entrepreneurship, Ethics, Management of Not-for-profit enterprises, GIS analysis of factors underlying real estate transactions.

ARCHAEOLOGICAL FIELD RESEARCH

Electronic Atlas of Ancient Maya Sites (co-PI with Clifford T. Brown) 1995 - ongoing

Investigación Arqueológica del Centro del Estado de Yucatán (Clifford T. Brown & Carlos Peraza L.)

for tests of survey techniques, data gathering equipment, and field mapping aids, and the location of some two dozen new Maya sites as a test of the Electronic Atlas of Ancient Maya Sites, and implications drawn for settlement pattern density. 2005-2006.

Five-mile Lock, James River & Kanawha Canal, Richmond, Virginia
Project Director

Cactus Hill, Nottoway River, Virginia
visiting Field Crew

Muyil (Chunyaxché), Quintana Roo, Mexico

Project Director, survey, mapping, settlement pattern studies, excavations, ceramic analysis, ecological reconnaissance; Tulane University's Middle American Research Institute and the Quintana Roo Regional Center of the Mexican National Institute of Anthropology and History.

Field research May - June 1987 (professional staff of 4, plus 12 laborers);

May - June 1988 (professional staff of 7, plus 24 laborers);

January-May 1990 (professional staff of 5, plus 15 laborers)

August 1991 (professional staff of 2).

Jean Lafitte National Park, New Orleans, Louisiana

Survey party chief, eight colonial house sites. January 1990

Ek Balam, Yucatan, Mexico

Survey party chief, mapping, excavation crew chief. (Project Director - William R. Ringle.) May - June 1986.

(un-named) Coles Creek site, Louisiana
Survey party chief, mapping. (William R. Ringle, Director) May 1986.

Fredericksburg Battlefields Park
Reconstruction and field reconnaissance of 19th century property boundaries for the National Park Service.
(Site of Stonewall Jackson's death.) Spring 1981.

STUDENT FELLOWSHIPS AND GRANTS FOR ARCHAEOLOGICAL RESEARCH

Tinker Foundation, Tulane University (3)
Mesoamerican Ecology Institute, Tulane University (3)
Middle American Research Institute, Tulane University (3)
Tulane University Graduate Student Support Fund
Anonymous Private Grant

CONDUCTED LECTURE TOURS TO ARCHAEOLOGICAL SITES

December 2015	“The Inca and their ancestors-selected archaeological sites in Peru and Bolivia”
March 2008	Longwood Alumni tour in Mexico, Guatemala, and Belize: “The Maya World”
March 2000	Science Museum tour in Egypt: “Exploring Egypt”
April 1998	Science Museum tour in Greece: “Greece before the Greeks”
November 1996	Science Museum tour in Peru: “The Inca and their ancestors”
March 1995	Science Museum tour in Mexico: “Mysterious Maya”
March 1987	Science Museum tour in Mexico: “Ancient Maya sites”

PUBLICATIONS, MONOGRAPHS, AND CONFERENCE PAPERS

Publications

2015	Encyclopedia of the Ancient Maya. (Editor, print & ebook) Lanham, MD. Rowman & Littlefield.
2015	Turnbull, Geoffry K, Bennie D. Waller, _____, and Velma Zahirovic-Herbert. The Impact of Historical Rehabilitative Tax Credits on the Marketing Outcomes of Neighboring Properties. Conference paper at the American Real Estate Society Annual Meeting, April 15-18, 2015, Fort Myers, FL. Winner of the Practitioner Research Award.
2012	_____, and Clifford T. Brown. “5,000 Sites and Counting: the Inspiration of Maya Settlement Studies”. In The Ancient Maya of Mexico : reinterpreting the past of the Northern Maya, edited by Geoffrey E. Braswell, pp. 170-190. Approaches to Anthropological Archaeology, Thomas E. Levy, general editor. Equinox Publishing Ltd., Bristol, Conn.
2012	Wood, Cynthia, and _____. Wildflower Zones at Holliday Lake State Park. A wall map of GPS-determined wildflower plants. For Virginia Department of Conservation and Recreation. Richmond, Va.
2012	_____, and Clifford T. Brown. <i>Historical Dictionary of Mesoamerica</i> . (446 pp.) (print & ebook) Toronto, Scarecrow Press.
2008	Tikal (ancient Maya site) entry for the Encyclopædia of Latin American History and Culture, 2nd ed., June 2008 Thompson Gale.
2007	Quirigua (ancient Maya site) entry for the Encyclopedia of Latin American History and Culture, 2nd ed., June 2008 Thompson Gale.
2007	Takalik Abaj (ancient Maya site) entry for the Encyclopedia of Latin American History and Culture, 2nd ed., June 2008 Thompson Gale.
2006	Clifford T. Brown (Florida Atlantic University), Carlos Peraza Lope (Centro INAH Yucatán), Walter R. T. Witschey (Science Museum of Virginia) and Rhianna Rogers (Florida Atlantic University) Results of Survey in Central Yucatán, México. Presented at the Symposium “Regional and Community Organization in the Northern Lowlands: Papers in Honor of the Life and Legacy of Ed Kurjack” celebrated at 76 th Annual Meeting of the Society for American Archaeology San Juan, Puerto Rico, April 29th, 2006
2006	_____, Howell J. Parry, Eugene Maurakis, David Hagan, Maia Werner-Avidon, Charles Howarth, Don

- Pohlman, and Clark Dodsworth. Museums in Transition: Technologies as tools for free-choice learning. *The Informal Learning Review* No. 81, Nov. – Dec. 2006. Washington, DC.
- 2006 A Lifetime of Memories: the 2005 Science Columns of Walter R. T. Witschey, Gatewood Co., Richmond VA.
- 2005 Muyil: an early start and late finish in East Coast Settlement. In *Quintana Roo Archaeology*, edited by Justine M. Shaw and Jennifer P. Mathews, 127-143. Tucson, University of Arizona Press.
- 2005 Volume maps for *Quintana Roo Archaeology*, edited by Justine M. Shaw and Jennifer P. Mathews, Tucson, University of Arizona Press.
- 2005 Brown, Clifford T., _____, and Larry S. Liebovitch. The Broken Past: Fractals in Archaeology. *Journal of Archaeological Method and Theory*, Vol. 12, No. 1, March 2005, Pages 37-78..
- 2004 Bat Bashing & Plate Smashing: the 2004 Science Columns of Walter R. T. Witschey. Gatewood Company, Richmond, VA.
- 2003 Your face seems familiar: the 2003 Science Columns of Walter R. T. Witschey. Gatewood Company, Richmond, VA.
- 2003 Brown, Clifford T., and ____ The fractal geometry of ancient Maya settlement. *Journal of Archaeological Science*, Volume 30, Issue 12 , December 2003 , Pages 1619-1632.
- 2002 On Sausages and Kings: the 2002 Science Columns of Walter R. T. Witschey. Gatewood Company, Richmond, VA.
- 2001 Fried Hard, Yellow Busted, and Turned Over: the 2001 science columns of Walter R. T. Witschey, Gatewood Company, Richmond, VA.
- 2001 Tulum. [encyclopedia entry for] the Oxford Encyclopedia of Mesoamerican Cultures. Oxford University Press.
- 2001 Many Roles to Play: the Science Center as a Community Powerhouse. *ASTC Dimensions*, Jan./Feb. 2001. Washington , DC.
- 2000 Exploding Charcoal; the 2000 Science Columns of Walter R. T. Witschey. Gatewood Company, Richmond, Virginia.
- 1999 Trainload of Trumpeters: the 1999 Science Columns of Walter R. T. Witschey. Gatewood Company, Richmond, Virginia.
- 1999 — , and Roger Wulff, How to ensure quality and cut costs with cultural institution value methodology: A case study of Value Engineering on an historic renovation project at the Science Museum of Virginia. *Museum Management and Curatorship*, Vol. 17, No.1, pp. 65-83, 1998
- 1998 A cat called telomere: the 1998 Science Columns of Walter R. T. Witschey. Gatewood Company, Richmond, Virginia
- 1997 No tickets for breaking Newton's Laws: the 1997 Science Columns of Walter R. T. Witschey. Gatewood Company, Richmond, Virginia
- 1996 [Eleven entries about Maya sites for] Encyclopedia of Latin American history and culture, Barbara A. Tenenbaum, editor in chief, New York : C. Scribner's Sons ; London : Simon & Schuster : Prentice Hall International, 1996.
- 1996 (contributor to) Of the Manners of Speaking the Old Ones Had: The Metaphors of Andrés de Olmos *Arte para Aprender la Lengua Mexicana*. (1547, The Tulane University Latin American Library Manuscript). by Judith M. Maxwell and Craig H. Hanson, University of Utah Press.
- 1993 The Archaeology of Muyil, Quintana Roo, Mexico: A Maya Site on the East Coast of the Yucatan Peninsula (dissertation). University Microfilms 9325992, Tulane University.
- 1991 Maya inheritance patterns: The transfer of real estate and personal property in Ebtun, Yucatan, Mexico (1560-1830). *Estudios de Cultura Maya* Vol. XVIII.
- 1991 (with Elia del Carmen Trejo) Proyecto Chunyaxché: Investigaciones en la zona arqueológica de Muyil) (report on the third Field Season at Muyil, Quintana Roo, Mexico. *Boletín del Consejo Arqueología 1990*. Instituto Nacional de Antropología e Historia, Mexico.
- 1991 (with Elia del Carmen Trejo A.) Mini-guide to the ruins of Muyil. (English/Spanish) Instituto Nacional de Antropología e Historia, Mexico.
- 1990 Review of "Lines to the mountain Gods: Nazca and the mysteries of Peru" in Latin America in Books, Charles M. Nissly (ed.) Vol. XI, Nº 1 January 1988. University of New Orleans.
- 1989 An Architectural Seriation of the Prehispanic Structures at Muyil, Quintana Roo, Mexico (Master's thesis). University Microfilms 1339708, Tulane University.
- 1989 (with Elia del Carmen Trejo) Muyil: Puerto de los mayas antiguos en Sian Ka'an. *Boletín de Amigos de Sian Ka'an*, No. 5, December 1989. Cancun.

- 1988 Recent Investigations at the Maya Inland Port City of Muyil (Chunyaxché), Quintana Roo, Mexico. Mexicon, Vol. X, No. 6, November 1988, Berlin.
- 1988 Field survey and data-handling techniques of the 1987 Chunyaxché Project. Human Mosaic 22(1&2):118-142, Tulane University.
- 1986 Review of "Maya ruins of Central America in color: Tikal, Copán and Quiriguá" in Latin America in Books, Charles M. Nissly (ed.) Vol. IX N° 2:4 July 1986. University of New Orleans.
- 1981 6000 Years of Sundials. SPECTRUM Vol. 3, No. 1, Science Museum of Virginia, Richmond, Virginia.
- 1980 Locating Land Described in Colonial Patents by Computer Analysis. The Virginia Magazine of History and Biography, Vol. 88, No. 2, April, 1980, Richmond, Va.
- 1978 The Thurmonds of Virginia. Gatewood Company, Richmond, Virginia (300 pp.).
- 1978 (editor) Two Views of Thurmond (West Virginia), Gatewood Company, Richmond, Va.

Unpublished Circulated Manuscripts

- 2012 Beadles, Richard L. and _____ Virginia Rail Corridor Condition and Capacity, Map/Analysis for the Virginia Rail Policy Institute.
- 2012 Reinventing ANTHRO 101: a personal adventure in classroom technologies.
- 2007 Digitizing the MARI Map: The Map of the Archaeological Sites in the Maya Area (1940) Walter R. T. Witschey, Longwood University, and Clifford T. Brown, Florida Atlantic University, Fellows of the Middle American Research Institute.
- 1991 COBOL 85 Supplement for use with Advanced Structured COBOL, Batch, On-line, and DataBase Concepts by Tyler Welburn. (Consultant's Report)
- 1990 Analysis and recommendations regarding the entry level course(s) for Computer Information Systems at Tulane's University College. (Consultant's Report)
- 1989 The Archaeology of Muyil, Quintana Roo, Mexico: A Maya Site on the East Coast of the Yucatan Peninsula, unpublished Masters thesis, Tulane University, New Orleans.
- 1988 Proyecto Chunyaxché: Informe interino de la temporada de 1988. Unpublished. The archives of the Instituto Nacional de Antropología e Historia (SEP) Mexico.
- 1988 (with Elia del Carmen Trejo) Proyecto Chunyaxché: Informe de la temporada de 1987 Parte B -- Cerámica. Unpublished. The archives of the Instituto Nacional de Antropología e Historia (SEP) Mexico and the Latin American Library, Tulane University, New Orleans. 1988.
- 1987 Proyecto Chunyaxché: Informe de la temporada de 1987 Parte A -- Mapas. Unpublished. The archives of the Instituto Nacional de Antropología e Historia (SEP) Mexico and the Latin American Library, Tulane University, New Orleans.
- 1987 Proyecto Chunyaxché: Informe preliminar de la temporada de 1987. Unpublished. The archives of the Instituto Nacional de Antropología e Historia (SEP) Mexico and the Latin American Library, Tulane University, New Orleans.
- 1982 Antique Streetcar Exhibit. A feasibility study for the Science Museum of Virginia, Richmond, Virginia.
- 1981 Fairfield of Caroline County, Virginia: Computer Reconstruction of Nineteenth Century Property Boundaries. A research monograph for the National Park Service, Fredericksberg Battlefields Park. (the site of Stonewall Jackson's death).
- 1965 Graphic Solutions for a Two-Failure Queue, a Supervised Business Study in partial fulfillment of requirements for the M.B.A. degree. University of Virginia, Charlottesville, Va.
- 1963 The Dependence on Pressure of Spark Location, Spark Width, and Spark Efficiency in a Spark Chamber. Senior Thesis, in partial fulfillment of requirements for A.B. degree, Princeton, NJ.

Conference sessions and invited papers

- Oct. 26, 2013 A Japanese View of Dinosaurs. Keynote Address. Interdisciplinary Thinking Conference: 21st century Visualization. Longwood University, Farmville, Va.
- Apr. 16, 2011 The Ancient Maya meet Modern GIS: Geographic Information Systems and Maya Site Locations in the Electronic Atlas of Ancient Maya Sites. Invited conference session at Maya at the Lago Conference, Davidson, N.C.

- Apr. 17, 2010 5,000 sites and counting: the inspiration of Maya settlement studies in 2010. Symposium: The Ancient Maya of Yucatan: papers in honors of E. Wyllys Andrews V. Society for American Archaeology 75th Annual Meeting. St. Louis, MO.
- Mar. 19, 2010 The World will end in 2012: What does the collapse of ancient societies say to us about sustainability and personal action today? Opening Address. Towards a Culture with a Conscience: reflections on Sustainability: Economy, Social Justice, Environment. Conference at Longwood University, Farmville, VA.
- Oct. 19, 2009 Overflight Archaeology: a driver for user-directed learning? Blackwell Lecture Series. Longwood University. Farmville, VA.
- Sep. 17, 2009 New History of an Ancient American Story: Unlocking the Secret Code of the Maya. Virginia Historical Society, Richmond, VA.
- Sep. 13, 2009 Throw out the old rules. Convocation 2009, Longwood University, Farmville, VA.
- Apr. 19, 2009 Leadership in Crisis. Phi Kappa Phi Induction Ceremony, Longwood University, Farmville, VA.
- Mar. 31, 2009 No trowels, no shovels: remote sensing in archaeology. Peter Francisco Chapter, Archaeological Society of Virginia. Farmville, VA.
- Mar. 30, 2008 Excellence at the Speed of Light. Phi Kappa Phi Induction Ceremony, Longwood University, Farmville, VA.
- Feb. 11, 2008 Hallmarks of Ancient Maya Greatness: Hieroglyphs, Calendar, and Architecture. Three class series for the Osher Institute, University of Richmond, Richmond, VA.
- Nov. 7, 2007 Achieving Immortality. Charles H. Fisher Lecture Series. Roanoke College, Salem, Va.
- Oct. 16, 2007 Reconciling Science and Faith—why it matters to the Church. Seminar for Science, Theology & Ethics, Virginia Conference of the United Methodist Church, Blackstone, Va.
- May 17, 2007 Commencement Address. Longwood University. Farmville, VA
- Feb. 12, 2007 Science to Change Your Life. Invited remarks at The Woman’s Club, Richmond, Va.
- Aug. 28-29, 2006 Staff Development Program keynote address (4,000 teachers), Chesterfield County Public Schools. “The Crossover—when computer power exceeds brain power—technology trends in 2006.
- June 9-10, 2006 Four invited session presentations at the Annual Conference of ECSITE (the European Science Center Association): How to enhance science center impact. How to attract science center volunteers. How a mother science center benefits from its satellites. The top three challenges fancy the science center CEO. Mechelen, Belgium.
- Dec. 14, 2005 Am I an Intelligent Design? Lunch-break Science Lecture Series. Science Museum of Virginia, Richmond.
- Sept. 28, 2005 The satellite search for ancient Maya pyramids. Lunch-break Science Lecture Series. Science Museum of Virginia, Richmond.
- August 24, 2005 Back to the Bush: New Maya Archaeology. Lunch-break Science Lecture Series. Science Museum of Virginia, Richmond.
- June 29, 2005 Herculaneum and Pompeii: disaster and discovery. Lunch-break Science Lecture Series. Science Museum of Virginia, Richmond.
- March 9, 2005 Tsunami in the Aegean: the Minoan Tragedy. Lunch-break Science Lecture Series. Science Museum of Virginia, Richmond.
- December 8, 2004 The Archaeology of Ancient Water Management. Lunch-break Science Lecture Series. Science Museum of Virginia, Richmond.
- December 1, 2004 The final days of the Sun and Earth. Lunch-break Science Lecture Series. Science Museum of Virginia, Richmond.
- June 9, 2004 Deciphering the Maya Script. Lunch-break Science Lecture Series. Science Museum of Virginia, Richmond.
- May 19, 2004 The Origins of Writing. Lunch-break Science Lecture Series. Science Museum of Virginia, Richmond.
- April 28, 2004 The Ancient Age of the Universe: How Old and How do we Know. Lunch-break Science Lecture Series. Science Museum of Virginia, Richmond.
- April 14, 2004 The Inca and their Ancestors. Lunch-break Science Lecture Series. Science Museum of Virginia, Richmond.
- March 3, 2004 Reading the Maya Calendar. Lunch-break Science Lecture Series. Science Museum of Virginia, Richmond.
- February 11, 2004 DNA—the past 50 years; the next 50 years. Lunch-break Science Lecture Series. Science Museum of Virginia, Richmond.
- January 14, 2004 Dinosaurs and the Ancient Maya. Lunch-break Science Lecture Series. Science Museum of Virginia, Richmond.

- October 18, 2003 Invited Keynote Address, Fall Undergraduate Research Meeting, Virginia Academy of Science, Richmond, Va.
- October, 2003 Echoes from an Ancient Past, a four-lecture series for the Woman's Club of Richmond, Virginia on the age of the universe, the age of the planet, ancient DNA in the human genome, and ancient civilizations.
- June 2, 2003 "Chicxulub, Challenger, and Human-courting Ostriches: the best and worst of modern science--a wide-ranging, occasionally irreverent review of modern science, science education and human hubris." Keynote address to the International Organization of Science and Technology Educators (IOSTE), College of William and Mary, Williamsburg, VA.
- May 29, 2003 "New Searches for Lost Cities: the Electronic Atlas of Ancient Maya Sites." Annual meeting of the Virginia Academy of Science, Charlottesville, VA.
- May 29, 2003 (Eugene Maurakis and _____) "Creating a Geographical Information System for Freshwater Crabs and Fishes in Greece." Annual meeting of the Virginia Academy of Science, Charlottesville, VA.
- April 12, 2003 (with Clifford T. Brown) "Fractal Fragmentation of Archaeological Ceramics." Fractals in Archaeology Symposium, Society of American Archaeology, Milwaukee, WI.
- April 2, 2003 (with Geoff Platt and Nan Miller) "Working with the MOB: collaborative community initiatives" conference session for Leadership Metro Richmond.
- Feb. 28, 2003 "The Uniqueness of the American Volunteer." The Annual Lettie Pate Whitehead Evans lecture. Westminster-Canterbury Foundation, Richmond, Va.
- Feb. 10, 2003 "The new search for lost cities." Woman's Club, Richmond, Va.
- Jan. 31, 2003 "Creativity in the Educational Enterprise." Moderator of a panel discussion with Dr. Richard Florida ("The Rise of the Creative Class") at the inaugural Henry A. McGee Distinguished Lecture Series, Virginia Commonwealth University.
- Nov. 16, 2002 Closing remarks. Summative Session ECSITE (European Collaborative for Science, Industry, and Technology Exhibitions) Annual Conference: Sharing Ideas, Developing Skills, Building Networks, Hosted by The Natural History Museum & Science Museum, London.
- Nov. 16, 2002 Motivating and Developing Staff (panel presentation) ECSITE Annual Conference: Sharing Ideas, Developing Skills, Building Networks, London.
- Nov. 15, 2002 A Free Admission: Implications and Consequences (panel presentation) ECSITE Annual Conference: Sharing Ideas, Developing Skills, Building Networks, London.
- October 10, 2002 Chair, CEO Forum, Association of Science-technology Centers, "Major Issues Confronting Science Centers", Phoenix, Arizona.
- Sept. 14, 2002 Keynote address al V Coloquio Asociación Mexicana de los Museos y Centros de Ciencia y Tecnología. Saltillo, Mexico.
- June 4, 2002 Keynote address al VI Reunión Nacional Directores de Centros de la Ciencia Y Planetarios, Madrid, Spain.
- March 22, 2002 (with Clifford T. Brown) The Electronic Atlas of Ancient Maya Sites. Symposium on Current Applications of Remote Sensing and GIS in North America and Mesoamerican Archaeology, 67th Annual Meeting of the Society for American Archaeology, Denver, CO.
- March 6, 2002 A GIS Atlas of Ancient Maya Sites. International Geographic Honor Society, Virginia Commonwealth University, Richmond, VA.
- February 15, 2002 Conference Conclusions. Plenary Session V, III Science Centre World Congress, Canberra, Australia.
- February 13, 2002 "Learning from our Buildings III Science Centre World Congress, Canberra, Australia..
- February 12, 2002 The Roles of a Modern Science Center: Community Powerhouse. III Science Centre World Congress, Canberra, Australia.
- February 12, 2002 Session Chair and Speaker. Plenary Session II, "What global trends and demographics are impacting on science centers? How will these shape science centres in the future?" III Science Centre World Congress, Canberra, Australia.
- Nov. 1, 2001 GIS: a multi-disciplinary approach for the student; (invited panel presentation) in GIS-related Education Issues and Opportunities in Virginia, at the 12th Annual Virginia GIS Conference, Virginia Association of Planning District Commissions, Roanoke Virginia.
- May 24, 2001 Twenty-first century brains and the end of the cutting edge: some observations on human culture, evolution, the human genome project, and science education in Virginia. (invited lecture) Sydney Negus Memorial Lecture at the 89th Annual Meeting of the Virginia Academy of Science, James Madison University.
- May 15, 2001 Education needs for new technologies – Invited remarks to the Virginia Workforce Council – High Technology Workforce Training Needs and Job Ready and Emerging Workforce Roundtable. Science Museum of Virginia, Richmond, Virginia.

- April 2001 (with Clifford T. Brown) Building a GIS System of Ancient Lowland Maya Settlement, Society for American Archaeology. New Orleans, LA.
- April 10, 2001 New technologies – New Brains. Invited address to Richmond Academy of Medicine. Richmond, VA.
- April 4, 2001 Environmental Education: Virginia's Needs. Plenary Session, Environment Virginia (Annual Conference) by invitation. Virginia Military Institute, Lexington, VA.
- March 20, 2001 (with Geoff Platt; Charles Bryan; and Nan Miller) Collaborating with the MOB: A Richmond Museum Endeavor. Virginia Association of Museums 2001 Annual Conference, 'Capitol' Ideas for Museums in the Real World. Richmond, VA
- January 2001 Many Roles to Play: the Science Center as a Community Powerhouse. ASTC Dimensions, Jan./Feb. 2001. Washington , DC.
- January 2001 (with Clifford T. Brown) The Geographic Analysis of Ancient Maya Settlement and Polity, Electronic Cultural Atlas Initiative Conference, City University, Hong Kong.
- May 18, 2000 (with Geoff Platt and Wally Stettinius) Working with the MOB--A Multi-Museum Collaboration in Richmond, Virginia; session at the 2000 Annual Meeting of the American Association of Museums.
- Apr. 8, 2000 (with Clifford T. Brown), Building a GIS System of Ancient Lowland Maya Settlement, Society for American Archaeology Annual Meeting.
- Aug. 6, 1999 Carl Howie Center for Science, Art, and Theology Conference, Presbyterian School of Christian Education – Union Theological Seminary, “Science meets Theology in Ancient Egypt”
- Nov. 19, 1998 Jepson Leadership School University of Richmond Investiture Ceremony Keynote Address, “So you want to be a leader?”
- Nov. 17, 1998 Roanoke Junior Achievement Business Leadership Awards Keynote Address, “Brain development and the education challenge.
- Nov. 12 1998 Celebration 2007 Logistics Committee, “Maglev technology for the Chesapeake Crescent”
- Nov. 5, 1998 Va. Business Council Education Task Force, “Status of Science Education”
- Oct. 30, 1998 Virginia Association of Science Teachers Annual Meeting Keynote Address, “Science at the Center”
- Oct. 19, 1998 Association of Science-Technology Centers session chair "Armchair Tour of New Science Centers"
- Oct. 5, 1998 Virginia Executive Institute, Williamsburg, panelist, “Leadership Qualities”
- Sept. 26, 1998 Virginia Commonwealth University, School of Engineering, Career Fair Keynote Address, “Jobs of the Future”
- June 25, 1998 National Association of Fund Raising Executives panel moderator, “How to develop and keep an active fund-raising board”
- May 21, 1998 SPHEX (Lynchburg), “Future Technologies: products and possibilities of the 21st century”
- May 16, 1998 John Tyler Community College Commencement Address
- Apr. 16, 1998 Virginia Power Company Retirees Association Annual Meeting Address: “A Brief History of Technology”
- Feb. 26, 1998 Richmond Engineers Council Annual Meeting Address, “Future Engineering: the products and possibilities of the third millennium”
- Nov. 11, 1997 Richmond Academy of Medicine, “What we don’t know yet.”
- Nov. 1, 1997 United Network for Organ Sharing/SMV Bioethics Conference Keynote Address
- October 19, 1997 ASTC Annual Conference St. Louis, "Advisories as Part of the Museum Mission - Success & Failures"
- Aug. 10, 1997 Shenandoah Valley Discovery Museum, “The Maya Cosmos”
- March 2 - 4, 1997 Annual Conference of Virginia Association of Museums, "Resources for the Small Museum"
- March 1996 Armagh, Northern Ireland, (invited) keynote speaker for Science Alive! Conference in Northern Ireland, "Partnerships for Science Education."
- 1991 (with Elia del Carmen Trejo and Enrique Torrones) Stones the Old Ones Called: Settlement Patterns on the East Coast of Quintana Roo. Conference Paper for the 47^o Congreso Internacional de Americanistas, July 1991.
- 1990 (with Elia del Carmen Trejo) Muiyil settlement patterns: a model for the east coast of Quintana Roo. Society for American Archaeology 55th Annual Meeting; Las Vegas, Nevada, April 19, 1990.
- 1989 Recent investigations at the Maya inland port city of Muiyil, Quintana Roo, Mexico. Annual meeting of the Society for American Archaeology, April, 1989, Atlanta
- 1988 Proyecto Chunyaxché: resultados interinos de la temporada del campo de 1988. Report presented at the invitation of the Centro Regional de Quintana Roo, INAH-SEP (Cancun, Mexico).
- 1988 The curious case of Chunyaxché. Invited lecture to the Mesoamerican Ecology Institute, Tulane University.
- 1987 (with William R. Ringle, Craig Hanson, Christopher von Nagy, and George Bey) Continuing investigations of Ek Balam, Yucatan, Mexico. Paper presented at the 52nd Annual Meeting of the Society

- for American Archaeology. Toronto, Canada.
- 1987 Field survey and data-handling techniques of the 1987 Chunyaxché Project. Invited lecture to the Graduate Anthropology Colloquium, Tulane University.
- 1986 (with Craig Hanson and Christopher Von Nagy) Investigations at Ek Balam, Yucatan, Mexico. Invited paper before the Mesoamerican Ecology Institute, 1986
- 1983 Smokin' Guns and Smokeless Coal. Second Annual New River Symposium, Department of the Interior, National Park Service, Oak Hill, West Virginia.
- 1982 Preparing for the Future in an Age of Computers. Virginia Congress of Parents and Teachers 77th Annual Convention, Roanoke, Virginia.

Editorial

- 2006-present Editorial Advisory Board, Encyclopedia Virginia, Virginia Foundation for the Humanities.
- 2001 Chair/Editor for the Report of the Governor's Virginia Environmental Education Advisory Committee, submitted electronically, and published on the web. (<http://VEEAC.SMV.org>).
- 1999 Editor of Magical Acts, Hypercubes and Pi: Meanderings through science, medicine and mathematics. Author Beverly Orndorff; Science Museum of Virginia & Science Museum of Virginia Foundation, Inc.
- 1988 Volume Editor of Human Mosaic, Vol. 22, Nos. 1 and 2. Tulane University.

WEB sites published and supported, and WEB-only publications

- 2008-2011 The Virginia Rail Policy Institute. <http://www.VaRPI.org>
- 2007-present personal web site; <http://www.Longwood.edu/staff/WitscheyWR>
- 2001-present Muyil, an Ancient Maya Site on the East Coast of Yucatan, Quintana Roo, Mexico. <http://Muyil.SMV.org>
- 2001-present An Electronic Atlas of Ancient Maya sites <http://MayaGIS.SMV.org>
- 2005 DNA Research in 2005: Will 2005 be the year of the haplotype map? www.richmond.com January 12, 2005.
- 2004 Fast Flying Virginian. www.richmond.com Nov. 29, 2004.
- 2004 What's Scary about Science? www.Richmond.com November 10, 2004.
- 2004 Who cares about Mars? www.Richmond.com October 11, 2004.
- 2004 DNA fingerprinting is not just for humans. www.Richmond.com September 28, 2004.
- 2004 New fossils suggests early upright bipedalism. www.Richmond.com September 9, 2004.
- 2001-2003 The Virginia High Speed Rail Development Committee. <http://www.vhsr.com>
- 2001-2004 Report of the Virginia Environmental Education Committee to Governor James Gilmore III
<http://VEEAC.SMV.org>
- 2001-2007 Strategic Plan of the Science Museum of Virginia <http://SMVPlan.SMV.org>

General interest and popular science

- 2009 Will big computers outthink big brains? [Richmond Times - Dispatch](#); June 2, 2009. Richmond, Virginia.
- 2009 Is the Carolina Wren our cousin? [Richmond Times - Dispatch](#); May 19, 2009. Richmond, Virginia.
- 2009 Living on the edge. [Richmond Times - Dispatch](#); May 5, 2009. Richmond, Virginia.
- 2009 Wind power demands 'Smart Grid.' [Richmond Times - Dispatch](#); Apr. 21, 2009. Richmond, Virginia.
- 2009 Not easy to believe the earth is round. [Richmond Times - Dispatch](#); Apr. 7, 2009. Richmond, Virginia.
- 2009 Signs of Spring send clear signals. [Richmond Times - Dispatch](#); Mar. 24, 2009. Richmond, Virginia.
- 2009 Nitrogen marginally better than air in tires. [Richmond Times - Dispatch](#); Mar. 10, 2009. Richmond, Virginia.
- 2009 Scientists shake roots of Tree of Life. [Richmond Times - Dispatch](#); Feb. 24, 2009. Richmond, Virginia.
- 2009 Much has been learned using Darwin's theories. [Richmond Times - Dispatch](#); Feb. 10, 2009. Richmond, Virginia.
- 2009 Element is widely used by Doctors. [Richmond Times - Dispatch](#); Jan. 27, 2009. Richmond, Virginia.
- 2009 Of Modern Humans and others. [Richmond Times - Dispatch](#); Jan. 13, 2009. Richmond, Virginia.
- 2008 Organs and traffic jams show science of waves. [Richmond Times - Dispatch](#); Dec 30, 2008. Richmond, Virginia.
- 2008 Now! In your house! See the winter solstice. [Richmond Times - Dispatch](#); Dec 16, 2008. Richmond, Virginia.
- 2008 Coffee offers lessons. [Richmond Times - Dispatch](#); Dec 2, 2008. Richmond, Virginia.
- 2008 New insights offered on climate change, DNA. [Richmond Times - Dispatch](#); Nov. 18, 2008. Richmond, Virginia.
- 2008 The uneasy mingling of deer and humans. [Richmond Times - Dispatch](#); Nov. 4, 2008. Richmond, Virginia.
- 2008 Recipe for great sunsets depends on physics. [Richmond Times - Dispatch](#); Oct 21, 2008. Richmond, Virginia.
- 2008 Dry spell for sunspots not unusual. [Richmond Times - Dispatch](#); Oct 7, 2008. Richmond, Virginia.
- 2008 Hummingbird in garage hatches science lesson. [Richmond Times - Dispatch](#); Sept. 23, 2008. Richmond, Virginia.
- 2008 Amateur Scientists Make Important Discoveries. [Richmond Times - Dispatch](#); Sept. 9, 2008. Richmond, Virginia.
- 2008 Bumblebees defy odds with swimming and flight. [Richmond Times - Dispatch](#); August 25., 2008. Richmond, Virginia.
- 2008 Ancient Bible Manuscript find home on the web. [Richmond Times - Dispatch](#); August 11, 2008. Richmond, Virginia.
- 2008 Black holes remain a source of fascination. [Richmond Times - Dispatch](#); July 29, 2008. Richmond, Virginia.
- 2008 Fireflies are not alone in ability to produce light. [Richmond Times - Dispatch](#); July 15, 2008. Richmond, Virginia.
- 2008 Jupiter's moons show big picture. [Richmond Times - Dispatch](#); July 1, 2008. Richmond, Virginia.
- 2008 Are more droughts on the way? Probably. [Richmond Times - Dispatch](#); June 17, 2008. Richmond, Virginia.
- 2008 Recovering industrial heritage. [Richmond Times - Dispatch](#); June 3, 2008. Richmond, Virginia.
- 2008 Eastern Fence Lizard is predator and prey. [Richmond Times - Dispatch](#); May 8, 2008. Richmond, Virginia.
- 2008 DNA and race: an issue charged with emotion. [Richmond Times - Dispatch](#); April 24, 2008. Richmond, Virginia.
- 2008 Dust devils are found on Earth and on Mars. [Richmond Times - Dispatch](#); April 24, 2008. Richmond, Virginia.
- 2008 The breadth and curiosity of scientists. [Richmond Times - Dispatch](#); April 10, 2008. Richmond, Virginia.
- 2008 Volcanic pressure, heat gives birth to crystals. [Richmond Times - Dispatch](#); Mar 27, 2008. Richmond, Virginia.
- 2008 Opportunity, frustration at a Maya temple site. [Richmond Times - Dispatch](#); Mar 27, 2008. Richmond, Virginia.
- 2008 Peepers' loud chorus a sign spring is near. [Richmond Times - Dispatch](#); Mar 13, 2008. Richmond, Virginia.
- 2008 Tracks show we share land with many animals. [Richmond Times - Dispatch](#); Feb 28, 2008. Richmond,

- Virginia.
- 2008 New Finds on Walking Upright. [Richmond Times - Dispatch](#); Feb 28, 2008. Richmond, Virginia.
- 2008 What's on maps directs us to new discoveries. [Richmond Times - Dispatch](#); Jan 31, 2008. Richmond, Virginia.
- 2008 NASA is still getting data from robotic explorers on Mars. [Richmond Times - Dispatch](#); Jan 24, 2008. Richmond, Virginia.
- 2008 The sun doesn't usually rise in the absolute east. [Richmond Times - Dispatch](#); Jan 17, 2008. Richmond, Virginia.
- 2008 Scientists take note of how birds learn to sing. [Richmond Times - Dispatch](#); Jan 3, 2008. Richmond, Virginia.
- 2007 A revolution in ideas on evolution. [Richmond Times - Dispatch](#); Dec 27, 2007. Richmond, Virginia.
- 2007 Is saving the world's coral reefs possible? [Richmond Times - Dispatch](#); Dec 20, 2007. Richmond, Virginia.
- 2007 Icy art from water vapor takes special conditions.; [Richmond Times - Dispatch](#); Dec 6, 2007. Richmond, Virginia.
- 2007 Knowledge about DNA evolves.; [Richmond Times - Dispatch](#); Nov 22, 2007. Richmond, Virginia.
- 2007 Persimmon pucker returns with autumn. [Richmond Times - Dispatch](#); Nov 22, 2007. Richmond, Virginia.
- 2007 Ceiling-trotting geckos follow a trail of science. [Richmond Times - Dispatch](#); Nov. 7, 2007. Richmond, Virginia.
- 2007 Conscious awareness studied; [Richmond Times - Dispatch](#); Oct 25, 2007. Richmond, Virginia.
- 2007 Molecules of water create surface tension; [Richmond Times - Dispatch](#); Oct 25, 2007. Richmond, Virginia.
- 2007 There's plenty of detail in the shadows we see; [Richmond Times - Dispatch](#); Oct 11, 2007. Richmond, Virginia.
- 2007 Chemistry drives fall foliage; [Richmond Times - Dispatch](#); Sep 27, 2007. Richmond, Virginia.
- 2007 Everything drains to the Chesapeake Bay; [Richmond Times - Dispatch](#); Sep 27, 2007. Richmond, Virginia.
- 2007 Scientist Nikola Tesla was a little-known hero; [Richmond Times - Dispatch](#); Sep 13, 2007. Richmond, Virginia.
- 2007 Scientists strive for cleaner water. [Richmond Times - Dispatch](#); Aug. 30, 2007. Richmond, Virginia.
- 2007 Human diet changed digestion. [Richmond Times - Dispatch](#); Aug 23, 2007. Richmond, Virginia.
- 2007 Mantises aren't praying; they're waiting for prey. [Richmond Times - Dispatch](#); Aug. 16, 2007. Richmond, Virginia.
- 2007 Keeping yourself cool is critical to survival. [Richmond Times - Dispatch](#); Aug. 2, 2007. Richmond, Virginia.
- 2007 Interrupter protects us to a fault. [Richmond Times - Dispatch](#); Jul. 26, 2007. Richmond, Virginia.
- 2007 Will more poison ivy soon cover Virginia? [Richmond Times - Dispatch](#); Jul. 19, 2007. Richmond, Virginia.
- 2007 Save the roses from a destructive intruder; [Richmond Times - Dispatch](#); Jul. 5, 2007. Richmond, Virginia.
- 2007 Making toothpaste takes special scientific recipe; [Richmond Times - Dispatch](#); Jun 21, 2007. Richmond, Virginia.
- 2007 Ask your mother for some 'fish-eye salad'; [Richmond Times - Dispatch](#); Jun. 7, 2007. Richmond, Virginia.
- 2007 Summer fun with the sun (but don't look at it); [Richmond Times - Dispatch](#); May 24, 2007. Richmond, Virginia.
- 2007 Teen years vital in brain development; [Richmond Times - Dispatch](#); May 24, 2007. Richmond, Virginia.
- 2007 Simple steps lead to smaller carbon footprint; [Richmond Times - Dispatch](#); May 10, 2007. Richmond, Virginia.
- 2007 Some ideas just ahead of their time; [Richmond Times - Dispatch](#); Apr 26, 2007. Richmond, Virginia.
- 2007 You can 'fly' to volcano, other spots around Earth; [Richmond Times - Dispatch](#); Apr 26, 2007. Richmond, Virginia.
- 2007 It's possible to make new plants at home; [Richmond Times - Dispatch](#); Apr 12, 2007. Richmond, Virginia.
- 2007 Ticks and people meet outdoors in warm weather; [Richmond Times - Dispatch](#); Mar 29, 2007. Richmond, Virginia.
- 2007 Solar power won't shine for a while; [Richmond Times - Dispatch](#); Mar 22, 2007. Richmond, Virginia.
- 2007 Mexico's Maya marked the magic of March; [Richmond Times - Dispatch](#); Mar 15, 2007. Richmond, Virginia.
- 2007 A strange world indeed when it comes to ice; [Richmond Times - Dispatch](#); Mar 1, 2007. Richmond, Virginia.
- 2007 Doubt fades on global warming; [Richmond Times - Dispatch](#); Feb 22, 2007. Richmond, Virginia.

- 2007 Loss of ice threatens polar bears; Richmond Times - Dispatch; Feb 15, 2007. Richmond, Virginia.
- 2007 Global-warming research calls to all students. [Richmond Times - Dispatch](#); Feb 1, 2007. Richmond, Virginia.
- 2007 Comets: Stellar shows with return engagements. [Richmond Times - Dispatch](#); Jan 18, 2007. Richmond, Virginia.
- 2007 Science provides tools to predict the future. [Richmond Times - Dispatch](#); Jan 4, 2007. Richmond, Virginia.
- 2006 Parents may pass along not just DNA. [Richmond Times - Dispatch](#); Dec 28, 2006. Richmond, Virginia.
- 2006 Why does winter come? It's in the stars for us. [Richmond Times - Dispatch](#); Dec 21, 2006. Richmond, Virginia.
- 2006 Large transportation takes much horsepower, thrust. [Richmond Times - Dispatch](#); Dec 7, 2006. Richmond, Virginia.
- 2006 A wealth of squirrels and acorns - but why? [Richmond Times - Dispatch](#); Nov 23, 2006. Richmond, Virginia.
- 2006 Both sides find value in creation. [Richmond Times - Dispatch](#); Nov 23, 2006. Richmond, Virginia.
- 2006 This science experiment is a really slow pitch. [Richmond Times - Dispatch](#); Nov 9, 2006. Richmond, Virginia.
- 2006 Bored by science? No chance. [Richmond Times - Dispatch](#); Oct 26, 2006. Richmond, Virginia.
- 2006 If you're looking for old cities, seek oxbows. [Richmond Times - Dispatch](#); Oct 26, 2006. Richmond, Virginia.
- 2006 Colors tell light's tales, from here to the cosmos. [Richmond Times - Dispatch](#); Oct 12, 2006. Richmond, Virginia.
- 2006 Cicadas may be small, but they're really noisy. [Richmond Times - Dispatch](#); Sep 28, 2006. Richmond, Virginia.
- 2006 Richmond's talking science. Richmond Times - Dispatch; Sep 28, 2006. Richmond, Virginia.
- 2006 Many human actions destroy animal habitats. [Richmond Times - Dispatch](#); Sep 14, 2006. Richmond, Virginia.
- 2006 Most radiation is harmless, but watch out for three things. [Richmond Times-Dispatch](#). August 31, 2006, Richmond, Virginia.
- 2006 When the research is homegrown, it tastes best. [Richmond Times-Dispatch](#). August 24, 2006, Richmond, Virginia.
- 2006 Drink your juice: vitamin C is required for good health. [Richmond Times-Dispatch](#). August 17, 2006, Richmond, Virginia.
- 2006 Stem cell moral issues important. [Richmond Times-Dispatch](#). July 27, 2006, Richmond, Virginia.
- 2006 Synthetic fibers help to advance modern science. [Richmond Times-Dispatch](#). July 20, 2006, Richmond, Virginia.
- 2006 Learning geography on a magic carpet ride. [Richmond Times-Dispatch](#). July 6, 2006, Richmond, Virginia.
- 2006 In the U.S., values trump results. [Richmond Times-Dispatch](#). June 22, 2006, Richmond, Virginia.
- 2006 Solid as a rock? Nature can change their nature. [Richmond Times-Dispatch](#). June 22, 2006, Richmond, Virginia.
- 2006 Supercomputers handle a supervariety of tasks. [Richmond Times-Dispatch](#). June 8, 2006, Richmond, Virginia.
- 2006 Old tools can teach a lesson. [Richmond Times-Dispatch](#). May 25, 2006, Richmond, Virginia.
- 2006 Containers have many uses in making our lives simpler. [Richmond Times-Dispatch](#). May 25, 2006, Richmond, Virginia.
- 2006 A lesson in the food chain: it begins with sunshine. [Richmond Times-Dispatch](#). May 11, 2006, Richmond, Virginia.
- 2006 Folding clothes is a chore. Folding paper is an art. [Richmond Times-Dispatch](#). April 27, 2006, Richmond, Virginia.
- 2006 Someday brain waves will control computers. [Richmond Times-Dispatch](#). April 27, 2006, Richmond, Virginia.
- 2006 Counting tree rings can tell you a lot of history. [Richmond Times-Dispatch](#). April 13, 2006, Richmond, Virginia.
- 2006 DNA's message: we're more alike than different. [Richmond Times-Dispatch](#). March 30, 2006, Richmond, Virginia.
- 2006 Multiplier effect spurs innovation. [Richmond Times-Dispatch](#). March 22, 2006, Richmond, Virginia.

- 2006 Exponential growth: its everywhere we go. Richmond Times-Dispatch. March 16, 2006, Richmond, Virginia.
- 2006 How old is that fossil? Varied methods can tell. Richmond Times-Dispatch. March 2, 2006, Richmond, Virginia.
- 2006 Intelligent Design – a cultural code phrase. Presbyterian Outlook . February 27, 2006. Richmond, Virginia.
- 2006 Science + technology = sweet music. Richmond Times-Dispatch, February 23, 2006. Richmond, Virginia.
- 2006 Women play big role in life of Mars rovers. Richmond Times-Dispatch, February 16, 2006. Richmond, Virginia.
- 2006 temperature affects all forms of life on earth. Richmond Times-Dispatch, February 2, 2006. Richmond, Virginia.
- 2006 Quest for immortality continues. Richmond Times-Dispatch, January 26, 2006. Richmond, Virginia.
- 2006 There are times gravity can lighten your load. Richmond Times-Dispatch, January 19, 2006. Richmond, Virginia.
- 2006 the sky’s color palette depends on several factors. Richmond Times-Dispatch, January 5, 2006. Richmond, Virginia.
- 2005 Peer review gives test of reliability. Richmond Times-Dispatch, December 22, 2005. Richmond, Virginia.
- 2005 Will rocks float? Answer depends on several things. Richmond Times-Dispatch, December 22, 2005. Richmond, Virginia.
- 2005 Driving in snow? It helps to know Newton’s Law. Richmond Times-Dispatch, December 8, 2005. Richmond, Virginia.
- 2005 Warm water, rotation spur hurricanes. Richmond Times-Dispatch, November 24, 2005. Richmond, Virginia.
- 2005 Busy month is world’s culture wars. Richmond Times-Dispatch, November 24, 2005. Richmond, Virginia.
- 2005 Just how hard is it? Here’s a way to find out. Richmond Times-Dispatch, November 10, 2005. Richmond, Virginia.
- 2005 Vibrations can be either pleasant or destructive. Richmond Times-Dispatch, October 27, 2005. Richmond, Virginia.
- 2005 Science Museum is much more than a museum. Richmond Times-Dispatch, October 16, 2005. Richmond, Virginia.
- 2005 Light: s straight shot, except when it’s not. Richmond Times-Dispatch, October 13, 2005. Richmond, Virginia.
- 2005 Collectors’ motives can differ. Richmond Times-Dispatch, September 29, 2005. Richmond, Virginia.
- 2005 T-shirts celebrate miracle year. Richmond Times-Dispatch, September 25, 2005. Richmond, Virginia.
- 2005 True-or-false tests occupy expert’s time. Richmond Times-Dispatch, September 22, 2005. Richmond, Virginia.
- 2005 Kitchen experiments can really taste good. Richmond Times-Dispatch, September 15, 2005. Richmond, Virginia.
- 2005 Questions to Answer and Discoveries to Make. Richmond Times-Dispatch, September 1, 2005. Richmond, Virginia.
- 2005 Vigilance is required for science. Richmond Times-Dispatch, August 25, 2005. Richmond, Virginia.
- 2005 Thunderstorms capable of a double whammy. Richmond Times-Dispatch, August 18, 2005. Richmond, Virginia.
- 2005 The Maya Indians used a much different calendar. Richmond Times-Dispatch, August 5, 2005. Richmond, Virginia.
- 2005 Research can be hazardous to health. Richmond Times-Dispatch, July 28, 2005. Richmond, Virginia.
- 2005 Why we need to keeopo the water table clean. Richmond Times-Dispatch, July 21, 2005. Richmond, Virginia.
- 2005 Imaging shows two ways to look inside your body. Richmond Times-Dispatch, July 7, 2005. Richmond, Virginia.
- 2005 Science and Faith needn’t be enemies. Richmond Times-Dispatch, June 23, 2005. Richmond, Virginia.
- 2005 State schoolgirl displays some political leverage. Richmond Times-Dispatch, June 23, 2005. Richmond, Virginia.
- 2005 Changing the Channel? It’s a stream’s story. Richmond Times-Dispatch, June 9, 2005. Richmond, Virginia.
- 2005 Ancient food frozen for 2,000 years. Richmond Times-Dispatch, May 26, 2005. Richmond, Virginia.
- 2005 Pulling it together? It’s the power of attraction. Richmond Times-Dispatch, May 26, 2005. Richmond,

- Virginia.
- 2005 Here's why a sharp pencil falls but you stand tall. [Richmond Times-Dispatch](#), May 12, 2005. Richmond, Virginia
- 2005 Shedding light on lightning. [Richmond Times-Dispatch](#), April 28, 2005. Richmond, Virginia
- 2005 Composting can help stop damage of erosion. [Richmond Times-Dispatch](#), April 26, 2005. Richmond, Virginia.
- 2005 You can feel the breeze as air molecules move. [Richmond Times-Dispatch](#), April 14, 2005. Richmond, Virginia
- 2005 Cat tongue has twist of its own. [Richmond Times-Dispatch](#), March 31, 2005. Richmond, Virginia.
- 2005 Reversal of magnetic field underway? [Richmond Times-Dispatch](#), March 24, 2005. Richmond, Virginia.
- 2005 Follow the bouncing ball for a lesson on energy. [Richmond Times-Dispatch](#), March 17, 2005. Richmond, Virginia.
- 2005 Our wake-sleep cycle is important to wellness. [Richmond Times-Dispatch](#), March 3, 2005. Richmond, Virginia.
- 2005 The memory to preserve memories. [Richmond Times-Dispatch](#) February 24, 2005. Richmond, Virginia.
- 2005 The facts right down to the bone. [Richmond Times-Dispatch](#), February 17, 2005. Richmond, Virginia.
- 2005 Skin detects temperature changes as heat flows. [Richmond Times-Dispatch](#), February 3, 2005. Richmond, Virginia.
- 2005 Icy driving a refresher on Newton. [Richmond Times-Dispatch](#), January 27, 2005. Richmond, Virginia.
- 2005 Clear view of fog's details. [Richmond times-Dispatch](#), January 20, 2005. Richmond, Virginia.
- 2005 Mummies reveal much about ancient history. [Richmond Times-Dispatch](#), January 13, 2004 Richmond, Virginia.
- 2004 Energy always changes, and shifts can be sudden. [Richmond Times-Dispatch](#), December 23, 2004 Richmond, Virginia.
- 2004 Science, Faith Need not be Opponents. [Richmond Times-Dispatch](#), December 23, 2004 Richmond, Virginia.
- 2004 Sun won't last forever, but we have lots of time. [Richmond Times-Dispatch](#), Dec. 9, 2004 Richmond, Virginia.
- 2004 A new diet requires new teeth. [Richmond Times-Dispatch](#), Nov. 25, 2004 Richmond, Virginia.
- 2004 A Huygens holiday for a Saturn Satellite. [Richmond Times-Dispatch](#), Nov 25, 2004. Richmond, Virginia.
- 2004 A small discovery is big news. [Richmond Times-Dispatch](#), Nov. 11, 2004. Richmond, Virginia.
- 2004 Pumpkins carve out their niche. [Richmond Times-Dispatch](#), Oct. 28, 2004 Richmond, Virginia.
- 2004 This enormous mountain just keeps getting taller. [Richmond Times-Dispatch](#), Oct. 28, 2004 Richmond, Virginia
- 2004 With robots on Mars, NASA hits a home run. [Richmond Times-Dispatch](#), Oct. 14, 2004. Richmond, Virginia
- 2004 New clues here in Virginia take us back in time. [Richmond Times-Dispatch](#), September 30, 2004 Richmond, Virginia
- 2004 The Science of Farming Raises Issues. [Richmond Times-Dispatch](#), September 23, 2004, Richmond, Virginia.
- 2004 Wind Turbines: More answers are necessary. [Richmond Times-Dispatch](#), August 26, 2004, Richmond, Virginia.
- 2004 An Up Close Look at the New Earth. [Richmond Times-Dispatch](#), July 29, 2004. Richmond, Virginia
- 2004 Computer Studies Branch Out. [Richmond Times-Dispatch](#), June 24, 2004. Richmond, Virginia.
- 2004 The Power and History of Writing. [Richmond Times-Dispatch](#) May 27, 2004. Richmond, Virginia.
- 2004 Giving new meaning to tossing pots [Richmond Times- Dispatch](#) April 22, 2004. Richmond, Virginia.
- 2004 Is the Hubble not worth servicing. [Richmond Times- Dispatch](#) March 25, 2004. Richmond, Virginia.
- 2004 Darwin is not really so topical. [Richmond Times- Dispatch](#) February 26, 2004. Richmond, Virginia.
- 2004 Red planet missions test curse. [Richmond Times- Dispatch](#) January 22, 2004. Richmond, Virginia.
- 2003 Computer crossword puzzle solvers challenge human insight [Richmond Times- Dispatch](#) December 25, 2003. Richmond, Virginia.
- 2003 Wright Brothers were a product of their culture. [Richmond Times- Dispatch](#) November 27, 2003. Richmond, Virginia.
- 2003 It is easier to find a pot of gold than to find the end of a rainbow. [Richmond Times- Dispatch](#) October 23, 2003. Richmond, Virginia.
- 2003 A quick return to normal – it's the way of the human race. [Richmond Times- Dispatch](#) September 25,

2003. Richmond, Virginia.
- 2003 Japan's Earth Simulator raises debate in U.S. on computers. [Richmond Times- Dispatch](#) August 28, 2003. Richmond, Virginia.
- 2003 If it has many useful functions, why do we call it junk DNA?. [Richmond Times- Dispatch](#) July 24, 2003. Richmond, Virginia.
- 2003 We can recognize hundreds, perhaps thousands of faces. [Richmond Times- Dispatch](#) June 26, 2003. Richmond, Virginia.
- 2003 Skin is first line of defense—protects us from a hostile world. [Richmond Times- Dispatch](#) May 22, 2003. Richmond, Virginia.
- 2003 DNA milestone—an ending and the start of another race. [Richmond Times- Dispatch](#) April 24, 2003. Richmond, Virginia.
- 2003 It's not a typical vacation photo from Mexico, but it's fascinating. [Richmond Times- Dispatch](#) March 27, 2003. Richmond, Virginia.
- 2003 How long can you breathe in a closed room? [Richmond Times- Dispatch](#) February 27, 2003. Richmond, Virginia.
- 2003 We really are what we eat - and what our ancestors ate. [Richmond Times- Dispatch](#) January 23, 2003. Richmond, Virginia.
- 2002 Don't look now, houseguests, but there's pi in your pizzas. [Richmond Times- Dispatch](#) December 26, 2002. Richmond, Virginia
- 2002 A Light and Dark Tale: the Wonder of the Eye. [Richmond Times-Dispatch](#) November 28, 2002, Richmond, Virginia.
- 2002 Baseball: Its not just a game or a pastime—It's Physics. [Richmond Times-Dispatch](#) October 24, 2002. Richmond, Virginia.
- 2002 Complex systems coupled with hubris equals disaster. [Richmond Times- Dispatch](#) September 26, 2002. Richmond, Virginia.
- 2002 Two great minds leave legacy of remarkable scientific ideas. [Richmond Times- Dispatch](#) August 22, 2002. Richmond, Virginia.
- 2002 What if the water stops? [Richmond Times- Dispatch](#) July, 2002. Richmond, Virginia.
- 2002 The 1,300-hour day. [Richmond Times- Dispatch](#) June, 2002. Richmond, Virginia.
- 2002 Alzheimer's. [Richmond Times- Dispatch](#) May, 2002. Richmond, Virginia.
- 2002 Back to the lab with Jesse Beams. [Richmond Times- Dispatch](#) April, 2002. Richmond, Virginia.
- 2002 It's not too late to find ruins of ancient lost cities. [Richmond Times- Dispatch](#) March 28, 2002. Richmond, Virginia.
- 2002 Australia's abundant marsupials are evidence of 'plate tectonics'. [Richmond Times- Dispatch](#) February 28, 2002. Richmond, Virginia.
- 2002 Dancing Sausages: Cooking breakfast is great way to observe the laws of physics. [Richmond Times- Dispatch](#) January 24, 2002. Richmond, Virginia.
- 2001 The human species took a long time to develop and it's not over. [Richmond Times- Dispatch](#) December 27, 2001. Richmond, Virginia.
- 2001 Don't send leaves to landfills, instead, turn them into mulch. [Richmond Times- Dispatch](#) November 22, 2001. Richmond, Virginia.
- 2001 With help from tools of science, tiny unseen world becomes clear. [Richmond Times- Dispatch](#) October 25, 2001. Richmond, Virginia.
- 2001 Photovoltaic effect is no longer too inefficient for practical use. [Richmond Times- Dispatch](#) August 23, 2001. Richmond, Virginia.
- 2001 Pendulum's swing tests trust one has in 'laws' of physics. [Richmond Times- Dispatch](#) July 26, 2001. Richmond, Virginia.
- 2001 Marvel of math, history, design: Behind the music of the piano. [Richmond Times- Dispatch](#) June 28, 2001. Richmond, Virginia.
- 2001 From Inca to Internet, the edge is from technology, accidents. [Richmond Times- Dispatch](#) May 24, 2001. Richmond, Virginia.
- 2001 Genomic research can build better brains and extend lives. [Richmond Times- Dispatch](#) Apr. 26, 2001. Richmond, Virginia.
- 2001 Will humans survive the next mass extinction? [Ramifications: a newsletter of the Richmond Academy of Medicine](#) Vol. XIII No. 12 April 2001, Richmond, Virginia.
- 2001 Development of eggs, in dinosaurs or birds, is miraculous process. [Richmond Times- Dispatch](#) Mar. 22,

2001. Richmond, Virginia.
2001 The human brain wasn't meant to withstand rapid deceleration. [Richmond Times-Dispatch](#) Feb 22, 2001. Richmond, Virginia.
- 2001 Shock waves, vapor trail, provoke lively discussion. [Richmond Times-Dispatch](#) Jan 25, 2000. Richmond, Virginia.
- 2000 Best, worst of science in 2000 receives recognition it deserves. [Richmond Times-Dispatch](#) Dec. 28, 2000. Richmond, Virginia.
- 2000 Screens' moiré fringes reminder of grandmother, Thanksgiving. [Richmond Times-Dispatch](#) Nov. 23, 2000. Richmond, Virginia.
- 2000 With so many kinds of smarts, can you measure intelligence? [Richmond Times-Dispatch](#) Oct. 26, 2000. Richmond, Virginia.
- 2000 There's a gauge for everything to satisfy human need to know. [Richmond Times-Dispatch](#) Sept. 28, 2000, Richmond, Virginia.
- 2000 Good old summertime visit to aunts yields creamy reward. [Richmond Times-Dispatch](#) July 27, 2000. Richmond, Virginia.
- 2000 Proposed SOL revisions inspire a feeling of testiness. [Richmond Times-Dispatch](#) June 22, 2000. Richmond, Virginia.
- 2000 Aswan High Dam is both blessed and cursed by modern Egyptians. [Richmond Times-Dispatch](#) May 25, 2000. Richmond, Virginia.
- 2000 Quiet digging at Cactus Hill quarry unearths explosive prehistoric find. [Richmond Times-Dispatch](#) Apr. 27, 2000. Richmond, Virginia.
- 2000 It counts to know the history behind mathematics, science, [Richmond Times-Dispatch](#) Mar. 23, 2000. Richmond, Virginia.
- 2000 When you pay attention to patents you see results of applied science. [Richmond Times-Dispatch](#) Feb. 24, 2000. Richmond, Virginia.
- 2000 All around us growth confounds, deceives, rewards and intrigues, [Richmond Times-Dispatch](#) Jan. 27, 2000. Richmond, Virginia.
- 1999 Gene therapy may stimulate fifth revolution in brain's development, [Richmond Times-Dispatch](#) Dec. 23, 1999. Richmond, Virginia.
- 1999 Poisson's clever formula tells how likely and unlike thing will happen, [Richmond Times-Dispatch](#) Nov. 25, 1999. Richmond, Virginia.
- 1999 From jet engines to hip joints, titanium is the metal of choice, [Richmond Times-Dispatch](#) Oct. 28, 1999. Richmond, Virginia.
- 1999 The first day of fall arrives today, in an otherwise ordinary day, [Richmond Times-Dispatch](#) Sep. 23, 1999. Richmond, Virginia.
- 1999 Turbulent cultural climate on teaching science prompts a review of process, [Richmond Times-Dispatch](#) Aug. 26, 1999. Richmond, Virginia.
- 1999 Caught in time warp on Mississippi without global positioning system, [Richmond Times-Dispatch](#), Thursday, July 22, 1999, Richmond, Virginia.
- 1999 Bring me the brain of Einstein and think of critical first 7 years Thursday, [Richmond Times-Dispatch](#) June 24, 1999, Richmond, Virginia.
- 1999 Reflections on the many ways we see things with fresh clarity, [Richmond Times-Dispatch](#) Thursday, May 27, 1999, Richmond, Virginia.
- 1999 Father of American archaeology unearthed Virginia geological features, [Richmond Times-Dispatch](#) Thursday, April 22, 1999, Richmond, Virginia.
- 1999 Virginia Doppler weather radar is carefully tuned to do its job, [Richmond Times-Dispatch](#) Thursday, March 25, 1999, Richmond, Virginia.
- 1999 If spring is here, it stands to reason stored energy won't be far behind, [Richmond Times-Dispatch](#) Thursday, February 25, 1999, Richmond, Virginia.
- 1999 Many of author's 'Profiles of Future' now old enough to be assessed, [Richmond Times-Dispatch](#) Jan. 28, 1999, Richmond, Virginia.
- 1998 Einstein's theory: Do we really celebrate on time? [Richmond Times-Dispatch](#) Dec. 24, 1998
- 1998 New Orleans menu includes deep-fried turkey and alligator, [Richmond Times-Dispatch](#) Nov. 26, 1998, Richmond, Virginia.
- 1998 A puzzle that's worthy of decoding in the tradition of Holmes, Legrand, [Richmond Times-Dispatch](#) Oct. 29, 1998, Richmond, Virginia.

- 1998 Many three-dimensional scenes rely on flat views for visual data, Richmond Times-Dispatch Sep. 24, 1998, Richmond, Virginia.
- 1998 Why do numbers come out like that? There ought to be a law; there is, Richmond Times-Dispatch Aug. 27, 1998, Richmond, Virginia.
- 1998 Despite a battery of changes, Volta's invention sparks charge, Richmond Times-Dispatch Jul. 23, 1998, Richmond, Virginia.
- 1998 Students tackle fun, amusement park physics, Fermi questions, Richmond Times-Dispatch Jun. 25, 1998, Richmond, Virginia.
- 1998 Water-handling infrastructure has simple, marvelous history, Richmond Times-Dispatch May 28, 1998, Richmond, Virginia.
- 1998 Now hear this: Sounds can be felt and seen as well as heard, Richmond Times-Dispatch Apr. 23, 1998, Richmond, Virginia.
- 1998 It doesn't take a heavyweight to make a deep impression, Richmond Times-Dispatch Mar. 26, 1998, Richmond, Virginia.
- 1998 The organic stuff of which we're made doesn't wear out, Richmond Times-Dispatch Feb. 26, 1998, Richmond, Virginia.
- 1998 Have to lift a car by yourself? Try this simple, clever device, Richmond Times-Dispatch Jan. 22, 1998, Richmond, Virginia.
- 1997 On Interstate 64, form frustrates function with traffic, winter sunrise, Richmond Times-Dispatch Dec. 25, 1997, Richmond, Virginia.
- 1997 Youthful project recalls Tesla, unlucky man, electrical genius, Richmond Times-Dispatch Nov. 27, 1997, Richmond, Virginia.
- 1997 Friction teaches many lessons: from Magic door to oiling doors, Richmond Times-Dispatch Oct. 23, 1997, Richmond, Virginia.
- 1997 "Eureka!" describes astonishment when an enormous object floats, Richmond Times-Dispatch, Sep. 25, 1997, Richmond, Virginia.
- 1997 Newton never knew he had so many lessons to teach young drivers, Richmond Times-Dispatch, Aug. 28, 1997, Richmond, Virginia.
- 1997 The geology of the Southwest hints at the real age of the Earth, Richmond Times-Dispatch, Jul. 24, 1997, Richmond, Virginia.
- 1997 64 data-collecting buoys help to decipher El Niño challenges, Richmond Times-Dispatch, Jun. 26, 1997, Richmond, Virginia.
- 1997 Ancient Maya, magic of science linked in a small piece of wood, Richmond Times-Dispatch, May 22, 1997, Richmond, Virginia.
- 1997 Air pressure experiments refuted idea that nature abhors a vacuum, Richmond Times-Dispatch, Apr. 24, 1997, Richmond, Virginia.
- 1997 Codes—from schoolmate's note to genetic intricacies—intrigue, Richmond Times-Dispatch, Mar. 27, 1997, Richmond, Virginia.
- 1997 Laser light technology key part of today's communications world, Richmond Times-Dispatch, Feb. 27, 1997, Richmond, Virginia.
- 1997 Martian Research has a tendency to spin off lessons that are twofold, Richmond Times-Dispatch, Jan. 23, 1997, Richmond Virginia.
- 1984 Honduras: Poverty Amid Ancient Culture. Richmond News Leader, Dec. 7, 1984, Richmond, Virginia.
- 1983 By Water: Boat Traverses Picturesque Avon. Richmond News Leader, Sept. 9, 1983, Richmond, Virginia
- 1983 (contributor) America's Wild and Scenic Rivers, National Geographic Society, Washington.

PROFESSIONAL ASSOCIATIONS

Active Membership

Virginia Academy of Science – Past President and Honorary Life Member
Research Fellow of the Middle American Research Institute, Tulane University
Archaeological Society of Virginia
American Association for the Advancement of Science
Society for American Archaeology
Sigma Xi
Virginia Rail Policy Institute
Virginians for High Speed Rail

Past Member

Association of Science-Technology Centers
American Association of Museums
Richmond Council of Museums
Association for Systems Management
Association for Computing Machinery
Data Processing Management Association
American Anthropological Association

OTHER CIVIC AND PROFESSIONAL ACTIVITIES

Board Member, Longwood University Foundation, 2016-
President, Virginia Rail Policy Institute 2008-2011
Committee Member: Mission, Governance, and Administration Compliance, SACS Compliance Certification 2011-13
Faculty Advisory Committee, Hull Springs Farm of Longwood University 2008-12
Chair, Community Ideas Stations Science Discovery Community Team / Science Matters 2008-2012
Leader-in-Residence, University of Richmond, Jepson School of Leadership Studies 2006-2007
Professor of Life Sciences, Virginia Commonwealth University 2006-2007
Member, Editorial Advisory Board, Encyclopedia Virginia, Virginia Foundation for the Humanities.
Charlottesville, Va. 2006-present.
Delegate, ECSITE (European Science Centers) 2006 Annual Conference, Brussels, Belgium.
Immediate Past President and Member, Executive Committee, Association of Science-Technology Centers, 2003 – 2005
Designee of Mayor L. Douglas Wilder to the Virginia General Assembly's Joint Sub-committee to Examine the cost and
feasibility of relocating the Museum and White House of the Confederacy
Past President and Member, Executive Committee, Virginia Academy of Science, 2004-2005.
Delegate, ECSITE (European Science Centers) 2004 Annual Conference, Barcelona, Spain
Program Committee, IV Science Center World Congress (Rio de Janeiro)
2003 Virginia Biotechnology Educator of the Year Award, Virginia Biotechnology Association
Founding Director, Belmont Bay Science Center Foundation, Inc.
Founding Director, Mountain Empire Science Center, Inc. Bristol, Va.
Founding Director, Virginia Aviation Museum Foundation, Inc.
Delegate for the National Science Foundation, Third Conference on the Public Understanding of Research, Tokyo, July 2003
President, Virginia Academy of Science, May 2003-2004
President, Association of Science-Technology Centers, 2001- 2003
Association of Science-Technology Centers, Chair, Site Visitation Committee Chair, Techniquest, Cardiff, Wales, UK, 2002.
Association of Science-Technology Centers, Chair, Site Visitation Committee Chair, Heureka, the Finnish Science Center,
Helsinki, Finland, 2002
Delegate, ECSITE (European Science Centers) 2002 Annual Conference, London, England
FIRST Regional Robotics Competition, Board Member 2002-2003
Member, Council of Affiliates, American Association of Museums, 2001-2003
President-elect, Virginia Academy of Science, 2002-2003
Gubernatorially-appointed Member, Historic Falls of the James Scenic River Advisory Board 2002-2003

Richmond Downtown Light Rail Feasibility Study: Selection Committee
Virginia Commonwealth University 2001 Humanities and Sciences Distinguished Adjunct Award
- Division of Social Sciences
FIRST Regional Robotics Competition, Judge, 2002
Habitat for Humanity – volunteer builder, Richmond, VA. 2001
Chair, Governor’s Environmental Education Commission, 2002-2004
Chair, Governor’s Environmental Education Advisory Committee, 2000-2001
Chair, Richmond Friends of Rail, a program of the Virginia High Speed rail Development Committee, 2000-
Member, RTAB, the Regional Transportation Advocacy Board of the Richmond Chamber of Commerce, 2000
Elder, First Presbyterian Church, 2000-2003
Chairman, Museums on the Boulevard, 1999-2001
Director, Virginia High Speed Rail Development Committee, 1999
Vice President, Association for Science-Technology Centers, 1999-2001
Member, As Hoc Committee on Governance; Member, and former chair, Audit Committee
Voting Member, Sign Richmond Partnership, 1999-2001
Director, Virginia Math-Science Coalition, 1999-2006
Member, United Network for Organ Sharing Capital Campaign Steering Committee
Member, Virginia Commonwealth University MCE Industrial Advisory Board, 1998 - 2002
Governor’s School for Government and International Studies Capital Campaign Steering Committee, 1998
American Association of Museums, Site Visitation Committee, Accreditation Review, xxx Museum, 1998
American Association of Museums, Site Visitation Committee, Accreditation Review, yyy Museum, 1998
Member, Professional Development Committee, Association of Science-Technology Centers 1998-2001
Member, Museums on the Boulevard, 1997-2007
Member, Virginia High Speed Rail Development Committee, 1997
Member, Steering Committee, coordinator, Culture, Performing Arts, and Museums,
Metropolitan Area Project Strategies 1997-2001
Member of the Executive Committee, Association for Science-Technology Centers 1997-2006
Secretary-Treasurer, Association for Science-Technology Centers 1997-1999
Member of the Board, Association of Science-Technology Centers 1996-2005
Member, Education Committee, Association of Science-Technology Centers 1996-1998
Member of Council and member of Resources Committee, Virginia Association of Museums 1997-1999
Member, Advisory Committee, Center for Environmental Studies, Virginia Commonwealth University, 1996 - 1998
Member, Advisory Committee for the formation of the
Appomattox Regional Governor’s School for Art and Technology, 1997
Metro Richmond Science Fair, Judge, 1994
Outstanding Adjunct, University College, Tulane University 1992
Trustee, Louisiana Science Centre, 1985-1990
Cenote of Sacrifice Exhibit, Louisiana Science Centre; proposed and hosted the scholarly lecture series. 1988
Director, Science Museum of Virginia Foundation, 1981-1985; ex officio 1986-1990
Chairman, Exhibits Committee;
Archaeological Interpreter for the Yucatan Field Trip;
designer/builder of "The World's Largest Sundial" - (Guinness Record, 1982-87)
designer of the “Mary Morton Parsons Earth-Moon Sculpture” Guinness Record 2004-
President and Director, Richmond-on-the-James (heritage tourism) 1985
Chairman, Professional Division, United Way of Greater Richmond, 1978
Member, Metropolitan Richmond Chamber of Commerce, 1970-83
Member, Central Richmond Association, 1970-83
Member, Major Gifts Committee, Central Virginia Educational Television, 1984
Member, Advisory Board, Richmond Department of Planning and Community Development, Downtown Master Plan
(Chairman, Transportation Committee), 1984-85
Secretary and Director, Richmond Community High School Policy Board (Development Committee) 1982-85
Chairman, Richmond Downtown Parking Strike Force, 1985
Volunteer, Richmond Cerebral Palsy Center, 1984-85
Director, Highland Data Services, 1982-85
Consultant, Federated Arts Council Capital Budget Requirements to acquire a Public Radio Station
Consultant to the Essex Group on business management of two computer industry subsidiaries

Chairman, Graduate Anthropology Colloquia, Tulane University, 1986-88
Representative and Treasurer, Graduate School Student Association, Tulane University, 1985-88
Representative, Tulane University Judicial Hearing Board, 1987-89
Member, St. Charles Avenue Baptist Church, 1989-1992
Member and Ruling Elder, Bon Air Presbyterian Church, 1981-85
Member, Tulane University Ad Hoc Committee on the establishment of an AutoCAD training center, 1988
Newcomb Fellow (1991/92) Tulane University
Standing Committee on the Tulane University College Computer Information Systems Curriculum (1991/94)
Chairman, Curriculum Advisory and Resource Committee,
Virginia Commonwealth University School of Business, 1975

PERSONAL DATA

Born: 19 June 1941, Charleston, West Virginia (U.S. Citizen, current passport)
f. Robert E. Witschey (d.), CPA, President, American Institute of CPAs - 1963
m. Elizabeth Thurmond (d.), Concert Pianist

Married to: Joan DuRelle Vincent, Danville, Virginia (Human Resources director (ret.); professional vocalist)

Children: Anne Elizabeth Witschey Adams, (B.F.A. Studio Art, magna cum laude, Tulane University; Owner-Publisher–Editor *The Highland and Bath County Recorder*, Monterey, VA);
Schon Roberts Parris, (Elon College, Virginia Commonwealth University; Automatic Data Processing, Atlanta, GA)
Sarah Catherine Witschey Brauner, (B.S. Math Education; University of New Orleans;, Mathematics Department, Jesuit High School, New Orleans);
Walter Robert Thurmond Witschey II, (Ph.D., Biological Physics-Magnetic Resonance Imaging, Assistant Professor of Radiology, Department of Radiology, University of Pennsylvania) ;
Benjamin Hart Vincent Witschey (community volunteer, Farmville, VA)

Eleven grand-children.