Garland R. Upchurch, Jr.

Associate Professor of Biology Curator of Paleobotany

Texas State University-San Marcos, San Marcos, Texas 78666 (512) 245-2178

I. Academic/Professional Background

Education

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B.S.	1975	Botany	University of Nebraska, Lincoln
M.S.	1978	Botany	University of Michigan, Ann Arbor
Ph.D.	1981	Botany	University of Michigan, Ann Arbor
		Lower Cretaceous Potos	of the cuticle in early angiosperm leaves from the mac Group (Atlantic Coastal Plain, U.S.A.). co-chaired by James Doyle & Charles Beck.
Postdoctoral	1981–91	Botany, Geology, & Global Change	Smithsonian Institution, Indiana University, U.S. Geological Survey, University of Colorado, and National Center for Atmospheric Research

Professional Experience

University of Nebraska, Lincoln	Teaching & Herbarium Assistant School of Life Sciences	1974–1975
University of Michigan, Ann Arbor	Teaching Assistant Division of Biological Sciences	1975–1981
Smithsonian Institution, Washington, D.C.	Postdoctoral Fellow Department of Paleobiology (with Drs. Leo Hickey & Francis Hueber)	1981–1983
Indiana University, Bloomington	NSF-funded Postdoctoral Researcher Department of Biology (with Dr. David Dilcher)	1983–1984
U.S. Geological Survey, Denver, CO	National Research Council Postdoctoral Research Associate (with Drs. Jack Wolfe & Douglas Nichols)	1984–1986
University of Colorado, Boulder	NSF-funded Research Associate University Museum (with Dr. Erle Kauffman)	1986–1988

National Center for Atmospheric Research	Postdoctoral Fellow Advanced Study Program (with Dr. Starley Thompson)	1988–1991
Colorado Department of Highways	Contract Paleontologist	1991
Texas State University-San Marcos	Assistant Professor Department of Biology	1991–1999
Texas State University-San Marcos	Associate Professor Department of Biology	1999–2015

Grants, Fellowships, Honors and Awards

Grants (only	funded and pending proposals listed)
1986–1988	National Science Foundation, Systematic Biology Program. Project entitled, "Patterns in plant extinction and environmental change at the Cretaceous-Tertiary boundary, North America, Part I." G.R. Upchurch, Jr., Principal Investigator, E.G. Kauffman, Co-principal Investigator. \$90,000. (Grant made to the University of Colorado.)
1988	National Science Foundation, Division of Polar Studies. Project entitled, "Campanian to Eocene dispersed plant cuticles from Seymour Island, Antarctica." Subcontract to project entitled "Campanian to Eocene floral history of the James Ross Island Basin, Antarctica." R.A. Askin, Principal Investigator. \$9,617. (Grant made to the University of Colorado.)
1990	National Science Foundation, Paleontology and Stratigraphy Program. Project entitled, "Analysis of leaf debris in the Mahakam Delta." Subcontract to project entitled "Phytotaphonomy of hydrocarbon precursors, Mahakam Delta, Kalimantan." R.A. Gastaldo, Principal Investigator. \$4,500. (Grant made to the University of Colorado.)
1991–94	National Science Foundation, Biotic Survey and Inventory Program. Project entitled, "Paleofloristic data for the study of global change and biotic extinction." G.R. Upchurch, Jr., Principal Investigator. \$100,000. (Grant made to Texas State University-San Marcos.)
1994	Texas State University-San Marcos, Office of Research and Sponsored Projects, Research Enhancement Grant. Project entitled, "Simulating climate change during mass extinction." One year, \$3,850.
1994–96	Texas Higher Education Coordinating Board, Advanced Research Program. Project entitled, "Paleovegetation and Global Climate Change Across the Cretaceous-Tertiary Boundary." G.R. Upchurch, Jr., Principal Investigator, \$40,873. (Grant made to Texas State University-San Marcos.) (A companion proposal submitted by B. Otto-Bliesner and C. Scotese, UT-Arlington, was funded for \$27,000. Supercomputer time funded separately through UT-Arlington and the National Center for Atmospheric Research)

	1997–1998 Texas State University-San Marcos, special research funds for the Freeman Ranch property. Project entitled, "Paleobotanical survey of the Freeman Ranch". One year, \$850.
1998–2000	National Institutes of Health, Phase II grant for small businesses, "Identification of plants using neural network technology". With F. Wadleigh, C. Meachem, G. Cottrell, & V. Hildebrand through Netrologic, Inc. Frank Wadleigh, Principal Investigator, G.R. Upchurch, project member/domain expert. Mix of academic & corporate scientists, total for everyone = \$736,922. (Grant made to Netrologic Inc.)
2005	Texas State University-San Marcos, Research Enhancement Program. Project entitled, "Paleogeography of the Late Miocene: Testing the uplift hypothesis of climatic change". One year, \$5,950.
2007–2008	Library Research Grant, Texas State University. One year, \$2,935. (With David Lemke)
2008–2009	Library Research Grant, Texas State University. One year, \$2,025.
2009–2010	Texas State University-San Marcos, Research Enhancement Program. Project entitled, "New records of karstic landscape evolution, fossil plant assemblages, and paleohydrology as preserved in an ancient Appalachian sinkhole lakebed." \$4,500. (With Benjamin Schwartz)
2009–2010	Library Research Grant, Texas State University. One year, \$1,870.
2010–2012	Cave Conservancy of the Virginias, Project entitled, "New records of karstic landscape evolution, fossil plant assemblages, and paleohydrology as preserved in an ancient Appalachian sinkhole lakebed." \$9,838 (With Ben Schwartz)
2010–2011	Library Research Grant, Texas State University. One year, \$2,000.
2013–2015	National Science Foundation, Major Research Instrumentation Program, Project entitled, "MRI: Acquisition of a High Resolution Computed Tomography System for Research and Education." 2 years, \$1,007,690, with a 30% institutional cost share. Daniel Wescott, PI; Garland Upchurch, Jonathan Lohse, and Martha Spradley, Co-PIs.
2013–2014	National Science Foundation, Predoctoral Fellowship for Jon Richey. 3 years, \$132,000. Garland Upchurch, PI (account manager for Year 1).

Graduate Grants

1976	Rackham Summer Research Grant, University of Michigan, "Cuticular anatomy of early angiosperm leaves: Preliminary studies."
1978–1979	Scott Turner Awards in the Earth Sciences #1 and #2, University of Michigan, "Cuticle evolution in early flowering plants."
1978–1980	Rackham Block Grants for Summer Dissertation Research #1, #2 and #3, University of Michigan, "Evolution of the cuticle in early angiosperm leaves from the Lower Cretaceous Potomac Group of Virginia and Maryland."

Postdoctoral fellowships (competitive)

1981-1983 Postdoctoral Fellowship, Smithsonian Institution, "Systematics, evolution, and paleoecology of early angiosperm leaves from the Lower Cretaceous Potomac Group (Atlantic Coastal Plain)." National Research Council Postdoctoral Research Associateship, U.S. 1984-1986 Geological Survey, "Foliar analysis of the terminal Cretaceous event, Raton Basin." 1988-1991 Postdoctoral Fellowship, National Center for Atmospheric Research, Boulder, Colorado.

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	Colorado.
Honors and	awards
1975	Weber-Ernst Award, Outstanding Undergraduate Major in Botany, University of Nebraska, Lincoln.
1981–1983	Smithsonian Institution Postdoctoral Fellowship.
1984–1986	National Research Council Postdoctoral Research Associateship, U.S. Geological Survey.
1986	Society of Economic Paleontologists and Mineralogists, Excellence in Presentation Award (shared with D.J. Nichols, R.F. Fleming, R.H. Tschudy, and C.L. Pillmore).
1988–1991	Postdoctoral Fellowship, National Center for Atmospheric Research, Boulder, Colorado.
1992	Listed in Who's Who In The West.
1995	Listed in Who's Who In The World.
1996	Listed in Who's Who In Science and Engineering, 3rd Edition.
1998	Listed in Who's Who in America and Who's Who in the World
1999	Presidential Seminar, Texas State University-San Marcos
	Listed in Who's Who in the World
2001	Biographee, "2000 Outstanding Scientists of the 21st Century". Cambridge, International Biographical Centre, Melrose Press Ltd.
	Listed in International Scientist of the Year 2001
2002	Nominee, Presidential Award for Excellence in Service, College of Science, Texas State University, San Marcos

Biographee, "2000 Outstanding Scientists of the 21st Century". Cambridge,

International Biographical Centre, Melrose Press Ltd.

Teaching Honors and Awards

1996	Alpha Delta Pi Favorite Professor, Texas State University
1997	Alpha Delta Pi Favorite Professor, Texas State University
1998	Alpha Delta Pi Favorite Professor, Texas State University
2004	Alpha Delta Pi Favorite Professor, Texas State University Delta Gamma Favorite Professor, Texas State University
2005	Alpha Delta Pi Favorite Professor, Texas State University

Courses Taught

University of Nebraska, Lincoln

1974	Introductory Botany	Laboratory (1 offering)
1975	Plant Morphology and Evolution	Laboratory (1 offering)

University of Michigan

1975–81	Biology for Majors	Laboratory & Discussion (5 offerings)
1976–78	Introductory Botany	Laboratory (3 offerings)
1978	Biology for Non-majors	Discussion (1 offering)
1979	Plant Systematics	Laboratory (1 offering)

Indiana University

Special Topics in Paleobotany class (series of 6 lectures).

Texas State University, San Marcos

1991–2000	Biology 1410 Introductory Botany	Lecture (30 offerings) (Fall, Spring, and Summer semesters)
1992–2014	Biology 4411/5411 Plant Morphology	Lecture & Laboratory (11 offerings) (Spring semester)
1993–2013	Biology 4412/5412 Plant Anatomy	Lecture & Laboratory (11 offerings) (Spring semester)
1999–2014	Biology 5110E/7102	Seminar (8 offerings)
2001	Biology 5319E History of Vegetation & Climate	Lecture & Discussion (1 offering) (Spring Semester)
2001–2013	Biology 1320 Modern Biology I (non-majors)	Lecture (>12 offerings) (Fall, Spring, and Summer semesters)
2001–2013	Biology 1421	Lecture (>14 offerings)

Modern Biology II (non-majors) (Fall, Spring, and Summer semesters)

2006–2012 Biology 7308/5308 Lecture with student projects (4 offerings)

History of Vegetation and Climate

Mentorship, external advising, and related items

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Postdoctoral	
2006–2007	Dr. Sergey Vikulin, Fulbright Research Fellow, Komorov Botanical Institute, Russian Academy of Sciences. Project: Early Tertiary floras of the Arctic
2010–2012	Dr. Emilio Estrada-Ruiz, CONACyT Postdoctoral Research fellow, Mexico. Project: Late Cretaceous fossil wood floras from North America.
Student	
1991–2012	Supervision of student volunteers and grant workers. Duties include laboratory preparation of plant tissue samples, field assistance, curatorial work, computer programming, and database organization.
1995	Thesis advisor, honors student Kristi Dunn. Thesis entitled, "Biofilm enhancement of leaf fossilization potential" (published in <i>Geology</i>)
1996–1997	Andrea Wakefield, graduate research on a Late Cretaceous fossil forest."
	Karl Hagenbuch, undergraduate research student on Cretaceous conifers from the McRae Formation of New Mexico
1997–1998	Jennifer Mittelhauser, undergraduate research student on leaf economics and cuticular anatomy
1998	Rebecca Smith, graduate research on biomass abundance for a latest Cretaceous fossil forest.
1997–2001	Informal supervision and direct involvement in research of Ph.D. student Barry Lomax, University of Sheffield, UK (thesis advisor: David Beerling).
1997–1999	M.S. thesis advisor for Robert Cowie. Thesis entitled, "Reconstructing stomatal gas exchange in the fossil conifer <i>Pseudofrenelopsis varians</i> ."
1999–2005	Research advisor for Jacqueline Scherer, summer teacher intern through SMTEI (Science Math Technology Education Institute).
2001	English language editor for Ph.D. thesis of Anke Steppuhn, University of Tübingen, Germany (thesis advisor: Volker Mosbrugger).
2001–2003	External member for Ph.D. committee of Kevin Carpenter, University of California, Davis. (thesis advisor: Geraat Vermeij).
2006	Ph.D. student projects on paleobotany of the latest Cretaceous, BIO 7308 Amanda Birnbaum, undergraduate research on the systematics of <i>Zingiberopsis</i>
	Crystal Mathisrud, University of Wisconsin, River Falls. Flora of Jurassic Park.
2007	M.S. student projects on paleobotany of the latest Cretaceous, BIO 7308
2007–2008	Mark Gorman, University of Colorado, origin of latest Cretaceous amber
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2008 Renee Hardin, systematics of latest Cretaceous cycads. J. Michael Tapp, University of Alaska, Fairbanks. Phytodebris floras of the Prince Creek Formation (Upper Cretaceous), North Slope of Alaska. Emilio Estrada-Ruiz, UNAM, Mexico City, Mexico. Late Cretaceous floras of the Olmos Formation of Mexico, and adjacent regions of North America. Patricia Valella, University of Denver. The diet of Matschie's tree kangaroo from Papua New Guinea. 2008-2010 Ph.D. thesis advisor, Patricia Valella 2009 Plant Anatomy (BIO 5412) student projects (3 projects) 2010-2011 Thesis advisor, undergraduate Honors Students Jon Richey and Dori Thompson Class projects, BIO 7308 2011-2012 Thesis advisor, undergraduate Honors Student Dori Thompson Class projects, BIO 7308 2011-2014 M.S. thesis advisor, Jon Richey (graduated 8/2014) 2011-2015 Ph.D. thesis advisor, Joan Parrott External member for Ph.D. committee of Jacqueline Scherer, University of 2013-2014 Texas at San Antonio (graduated 8/2014) 2013–2015 External member, M.S. committee of Alejandra Sainz, National Polytechnic University of Mexico, Mexico City, Mexico Informal supervision and direct involvement in graduate research of Dori Contreras, University of California, Berkeley • Alexandra Lee, University of Nottingham, UK Sinem Tanrikulu, University of California, Davis 2014 External thesis examiner for Ph.D. student Tamara Fletcher, University of Queensland, Australia Member of three M.S. committees, Texas State University Assisted laboratory visitor Ludovic Renard with thesis work on fossil epiphyllous fungi. 2015 Member of two M.S. committees, Texas State University Member of M.S. committee, Museum Studies, University of Colorado, Boulder RESESS Mentor, University of Colorado, Boulder (with Karen Chin)

Organizations

Professional

- American Geophysical Union
- Botanical Society of America
- Geological Society of America
- International Organization of Palaeobotany
- SEPM (Society of Economic Paleontology and Mineralogy)

Museum, exhibits, collections, and related experience

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1974–1975	Nebraska State Museum, Herbarium Assistant (both modern and fossil plants)
1975–1981	University of Michigan, Museum of Paleontology, graduate experience with paleobotanical collections (research and expansion of collections)
1981–1983	U.S. National Museum, postdoctoral experience with paleobotanical collections (research and expansion of collections)
1983–1984	Indiana University, postdoctoral experience with paleobotanical collections (now at Florida State Museum) (research and expansion of collections)
1986–1991	University of Colorado Museum, postdoctoral experience with paleobotanical collections (research and expansion of collections)
1987	Co-leader of paleobotanical field trip, annual meeting, Botanical Society of America
1990	Co-leader of paleobotanical field trip, annual meeting, Botanical Society of America
1990–1991	Paleobotanical consultant, Denver Museum of Natural History. Included collections evaluation, leading field trips for the general public, and minor collections expansion
1990–1995	External Advisory Committee, Hall of Mesozoic Life, Nebraska State Museum.
1990–1995	External Advisory Group, exhibit entitled, "Prehistoric Journey", Denver Museum of Natural History (now Denver Museum of Nature and Science).
1991	Co-producer of Colorado Department of Highways Exhibit: <i>The Littleton Railroad Depression Paleoflora</i> .
1991–2015	Development and curation of paleobotanical research collections, Texas State University, San Marcos (>10,000 specimens). Includes supervision of field crews, student curatorial assistants, student researchers, and volunteers. Emphasis is on plant megafossils from the Cretaceous-Tertiary boundary.
1997	Exhibit on Cretaceous plants, Texas State University Biology Department
2001	Leader of two-day paleobotanical field trip, annual meeting, Botanical Society of America
2004	Academic consultant on paleobotany for film entitled, "Austin Past and

	Present: A Multimedia Documentary about the History of Austin".
2005	Leader of paleobotanical field trip, annual meeting, Botanical Society of America
2005–2015	Curator of Paleobotany, Texas State University, San Marcos, TX
2012–2015	Curator Adjoint, University of Colorado Museum, Boulder, CO (unpaid position)

Service

Honors and Awards

2002 Nominee, Presidential Award for Excellence in Service, Texas State University

Department of Biology

Committee work

1991-2004	Chair, Seminar Committee
1995–1997	Member, Natural Science Center Committee
1997–2002	Student Colloquium Committee
1998	Member, Molecular Systematics Search Committee
1999–2015	Personnel Committee
2001–2005	Budget Committee
2002	Assistance with proposal writing of tenure-track faculty for the Research Enhancement Program
2002-2003	Geology & Hydrology Search Committees
	Planning Committee
2002–2005	Undergraduate Research Committee
2003	Chair, ad hoc committee to determine future of Introductory Botany
2004–2006	Chair, ad hoc committee on biological collections.
2005–2012	Greenhouse committee (for the construction of a new research greenhouse)
2008	Hydogeologist Search Committee

Teaching servi	ce
1991–2013	Teaching large freshman sections with >50 students (up to 4 sections per year).
1997	Overload teaching, extra lecture and lab section, Biology 5412, Plant Anatomy.
1999	Overload teaching, Biology 5110E, seminar on Mass Extinction Guest lectures for Biology 5318, Special Topics in Biology
2001	Development of three (3) new courses as part of the Biology 2000 curriculum (BIO 1320, 1421, and 5319E)
2002	Overload teaching, two laboratory sections, Biology 4412/5412, Plant Anatomy

2003, 2005	Overload teaching, laboratory sections of Biology 4411/5411, Plant Morphology.
2006	Development of Biology 5308/7308, History of Vegetation and Climate.
1997–2009	Teaching evening classes, BIO 1320, BIO 4411, BIO 4412, BIO 7308
2011–2014	Seminar in Paleobotany and Paleoclimatology, BIO 5110/7102, average two sections per year.
	Guest lectures on History of Life, BIO 4301, Evolution; and BIO 7353, Biogeography.
Other service	
2005	Setup of Paleobotanical Collections Facility, Department of Biology. Facility includes: 1) Collections Range with >10,000 specimens, 2) Macrophotography Facility with digital and film capabilities, and 3) Photomicrography Facility with Brightfield, Phase-contrast, and Epifluorescence capabilities.
2005–2015	Curator of Paleobotany, Texas State University, San Marcos
2007–2012	Ordered >400 books and monographs for the Texas State University Library
2008–2009	Made pdfs of career publications (including high-resolution photographic plates) and placed them on Ecommons
2010–2012	Rebuilt greenhouse teaching collections, planned teaching gardens (esp. palms & cycads)
College of So	eience
1997, 2001, 2002	Research Enhancement Program (REP), Proposal Review Panel, College of Science (included assisting tenure-track faculty in proposal preparation)
University C	ommittees
1999	Search Committee, Associate Vice President of Academic Affairs for Research & Sponsored Projects, representative from the College of Science
2000–2002	Graduate Scholarship Selection Committee, representative from the College of Science
2002–2005	Presidential Seminar Selection Committee, representative from the College of Science (Chair from 2003 to 2005).
2002–2003	Undergraduate Research Council, representative from the College of Science (Chair: Billy Covington).
2004	Undergraduate Academic Center committee, representative, College of Science.
2005–2006	Pecos Hall renovation committee
Service to co	mmunity and other universities Judge, Montgomery County, Maryland, Gem and Mineral Show
1988	Lecture, Western Interior Paleontological Society, Denver, Colorado
	Lecture, Colorado Native Plants Society, Fort Collins, Colorado
	Lecture, dinosaur extinction, Milehicon 1988 (Denver science fiction convention)

1992–1993	Presentations on fossils, Crockett Elementary School, San Marcos
1994–1995	Cub Scout Pack 118, San Marcos, assisted with Sights & Sounds and July 4 sales.
1999	James Madison High School, San Antonio, TX, co-leader of field trip for environmental science class of Jackie Scherer
2001	Ex officio member, Climate Modeler Search Committee, University of Texas at Austin, Department of Geology (resulted in the hiring of Zong-Liang Yang)
	James Madison High School, San Antonio, TX, judge of Science Fair projects

National (Professional) Service

Paleobotanical	Section,	Botanical	Society	of America.
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1984	Annual Meeting, Botanical Society of America, session chair.
1985	Annual Meeting, Botanical Society of America, session chair.
1988	Annual Meeting, Botanical Society of America, co-organizer of field trip to collect fossil plants from the early Tertiary of California.
1990	Annual Meeting, Botanical Society of America, co-organizer of field trip to collect fossil plants from the Early Cretaceous of Virginia
	Session chair, Annual Meeting, Botanical Society of America
	Judge of best student paper in paleobotany, Annual Meeting, Botanical Society of America
1992–1993	Member, ad hoc committee on policies regarding future use of the Paleobotanical Section's endowments.
1996–1997	Chair of section
1997–2005	Representative to the Association of North American Paleontological Societies (ANAPS). ANAPS plans the North American Paleontological Convention.
2001	Botany 2001, annual meeting of the Botanical Society of America, leader of two-day field trip entitled, "Paleoecology of the Cretaceous-Tertiary boundary in the Raton Basin, New Mexico and Colorado".
2005	Botany 2005, annual meeting of the Botanical Society of America, leader of one-day field trip to the Tertiary of Texas.
2007	Chair of ad hoc committee to establish an outstanding achievement award, Paleobotanical Section, Botanical Society of America.
2012	Chaired 2 sessions, Annual Meeting, Botanical Society of America
2013	Judge, Outstanding Student Presentation, American Geophysical Union Fall Meeting, San Francisco, CA

Symposium organization

1992 Co-organizer of symposium entitled, "The Origin of Modern Terrestrial

Ecosystems: The late Mesozoic and Cenozoic." North American
Paleontological Convention V, Chicago, IL, June, 1992. (With R.L. Stuckey)
Co-organizer of two sessions on Cretaceous climates, American Geophysical
Union Fall Meeting, San Francisco, CA (With A. Fiorillo, G. Ludvigsen, and
P.J. McCarthy)
Co-organizer and convener of two scientific sessions on early flowering plants,
9th European Palaeobotany Palynology Conference, Padova, Italy, August 26–
31, 2014 (with Barry Lomax and Jiri Kvacek).

II. Publications

Books

2001

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Monogra	phs
1981	Upchurch, G.R., Jr. <i>The evolution of the cuticle in early angiosperm leaves from the Lower Cretaceous Potomac Group (Atlantic Coastal Plain, U.S.A.).</i> Doctoral thesis, University of Michigan, Ann Arbor, 180 p.
1990	Upchurch, G.R., Jr., and Dilcher, D.L. Cenomanian angiosperm leaf megafossils, Dakota Formation, Rose Creek locality, Jefferson County, southeastern Nebraska. <i>U.S. Geological Survey Bulletin</i> 1915, 55 p. + 31 pls.
1994	Upchurch, G.R., Jr., Crane, P.R., and Drinnan, A.N. The megaflora from the Quantico locality (Middle to Upper Albian), Lower Cretaceous Potomac Group of Virginia. <i>Virginia Museum of Natural History Memoir</i> 4: 58 p.
Chapters	in books
1981	Upchurch, G.R., Jr., and Doyle, J.A. Paleoecology of the conifers <i>Frenelopsis</i> and <i>Pseudofrenelopsis</i> (Cheirolepidiaceae) from the Cretaceous Potomac Group of Maryland and Virginia. In Romans, R.C., ed. <i>Geobotany II</i> . New York, Plenum Press, p. 167–202.
1987	Upchurch, G.R., Jr., and Wolfe, J.A. Mid-Cretaceous to Early Tertiary vegetation and climate: Evidence from fossil leaves and wood. In Friis, E.M., W.G. Chaloner, and P.R. Crane, eds., <i>The origins of angiosperms and their biological consequences</i> . Cambridge, Cambridge University Press, p. 75–105.
1989	Upchurch, G.R., Jr. Terrestrial environmental changes and extinction patterns at the Cretaceous-Tertiary boundary, North America. In Donovan, S.K., ed., <i>Mass Extinction: Processes and Evidence</i> . London, Belhaven Press, p. 195–216; printed in the United States by Columbia University Press.
1990	Kauffman, E.G., Upchurch, G.R., Jr., and Nichols, D.J. The Cretaceous-

Tertiary boundary interval at South Table Mountain, near Golden, Colorado. In Kauffman, E.G., and Walliser, O.H., eds., *Extinction events in Earth History*.

Upchurch, G.R., Jr. Climate-Modelling using Fossil Plants. In Briggs, D.E.G.,

Heidelberg, Springer-Verlag, p. 365–392.

and Crowther, P.R., eds., *Palaeobiology II*. Oxford, Blackwell Science Ltd, p. 483–485. (This is the "how to" guide of paleobiology.)

2009 Upchurch, G.R., Jr. Mass Extinction: Role of Climates. In Gornitz, V., ed., *Encylopedia of Palaeoclimatology and Ancient Environments*. Encyclopedia of Earth Sciences Series, Kluwer Academic Publishers, p. 547–550.

Custom Textbooks and Curriculum

1995	Upchurch, G.R., Jr. <i>Biology 1410: Course Study Guide</i> . Wm. C. Brown Publishers, Dubuque, Iowa. 144 p. + 22 p. appendix.
1997–2004	Upchurch, G.R., Jr. <i>Laboratory Exercises for Biology 4412/5412, Plant Anatomy</i> . Published through the Texas State University Bookstore (1997-2002) and supplied through Blackboard (2004).
1998	Upchurch, G.R., Jr. <i>Biology 1410: Course Study Guide, Second Edition, Parts 1–4.</i> Published through Texas State University Bookstore.
	Upchurch, G.R., Jr. <i>Introductory Plant Biology Course Study Guide, Seventh Edition</i> . McGraw Hill Companies, 206 p.+ 30 p. appendix.
2000	Upchurch, G.R., Jr. <i>Introductory Plant Biology Course Study Guide, Eighth Edition</i> . McGraw Hill Companies, 206 p.+ 30 p. appendix.
2000–2005	Upchurch, G.R., Jr. <i>Laboratory Manual, Biology 4411/5411, Plant Morphology</i> . Published through Texas State University bookstore (2000-2003) and supplied through Blackboard (2005).
2002–2009	Upchurch, G.R., Jr. <i>Blackboard & TRACS: Biology 1320, Modern Biology-1</i> (lecture notes, review materials, sample exams, old exams, and answer keys).
2002–2009	Upchurch, G.R., Jr. <i>Blackboard & TRACS: Biology 1421, Modern Biology-2</i> (lecture notes, review materials, sample exams, old exams, and answer keys).
2004–2009	Upchurch, G.R., Jr. <i>Blackboard & TRACS: Biology 4412/5412, Plant Anatomy</i> (laboratory exercises, study guides, and digital image library).
2006–2007	Upchurch, G.R., Jr. <i>Blackboard: Biology 5308/7308, History of Vegetation and Climate</i> (powerpoint lectures and extensive supplemental readings).

Articles

2008

Journal Articles

1984 Upchurch, G.R., Jr. The cuticular anatomy of early angiosperm leaves from the Lower Cretaceous Potomac Group of Virginia and Maryland, Part 1, Zone 1 leaves. *American Journal of Botany* 71: 192–202

lectures, supplemental readings, laboratory exercises).

Upchurch, G.R., Jr. Cuticular evolution in Early Cretaceous angiosperms from the Potomac Group of Virginia and Maryland. *Annals of the Missouri Botanical Garden* 71: 518–546.

Blackboard: Biology 4411/5411, Morphology of Vascular Plants. (powerpoint



and Johnson, C.C., eds., The evolution of Cretaceous ocean/climate systems.

Geological Society of America Special Paper 332: 407–435.

2000

Lomax, B.H., Beerling, D.J., Upchurch, G.R., Jr., and Otto-Bliesner, B.L. Terrestrial ecosystem responses to global environmental change across the Cretaceous-Tertiary boundary. *Geophysical Research Letters* 27: 2149–2152.

Scott, A.C., Lomax, B.H., Collinson, M.E., Upchurch, G.R., and Beerling, D.J. Fire across the K/T boundary: Initial results from the Sugarite Coal, New Mexico, USA. *Palaeogeography, Palaeoclimatology, Palaeoecology* 164: 381–395. (Special issue entitled, "Fire and the Palaeoenvironment", edited by A.C. Scott, J. Moore, and B. Brayshay).

Knaus, M.J., Upchurch, G.R., Jr., and Gillespie, W.H. *Charbeckia macrophylla* gen. et sp. nov. from the Price (Pocono) Formation of southeastern West Virginia. *Review of Palaeobotany and Palynology* 111: 71–92.

2001

Beerling, D.J., Lomax, B.H., Upchurch, G.R., Jr., Nichols, D.J., Pillmore, C.L., Handley, L., and Scrimgeour, C.M. Evidence for recovery of terrestrial ecosystems ahead of marine primary production following a biotic crisis at the Cretaceous-Tertiary boundary. *Journal of the Geological Society of London* 158: 737–740.

Lomax, B.H., Beerling, D.J., Upchurch, G.R., Jr., and Otto-Bliesner, B.L. Rapid (10-yr) recovery of terrestrial productivity in a simulation study of the terminal Cretaceous impact event. *Earth and Planetary Science Letters* 192: 137–144.

2002

Beerling, D.J., Lomax, B.H., Royer, D.L., Upchurch Jr., G.R., and Kump, L.R. An atmospheric *p*CO₂ reconstruction across the Cretaceous-Tertiary boundary from leaf megafossils. *Proceedings of the National Academy of Sciences USA* 99: 7836–7840.

2007

Upchurch, G.R., Jr., Lomax, B.H., and Beerling, D.J. Paleobotanical Evidence for Climatic Change across the Cretaceous-Tertiary Boundary, North America: Twenty Years after Wolfe and Upchurch. In: Jarzen, David M., Manchester, Steven R. Retallack, Gragory J., and Jarzen, Susan A (Eds), Advances in Angiosperm Paleobotany and Paleoclimatic Reconstruction: Contributions Honouring David L. Dilcher and Jack A. Wolfe. *Courier Forschungsinstitut Senckenberg* 258: 57–74. (Invited)

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2012

Upchurch, G.R., Mack, G., Estrada-Ruiz, E., Wheeler, E., Parrott, J., Thompson, D., and Richey, J. Late Cretaceous Plant Macrofloras From South-Central New Mexico: A Preliminary Report. Botany 2012, Abstract 340.

Thompson, D., Upchurch, G.R., Parrott, J., Estrada-Ruiz, E., and Mack, G. Reconstructing a Redwood from Multiple Organs: New material from the Upper Cretaceous Jose Creek Member, McRae Formation of south-central New Mexico. Botany 2012, Abstract 595.

Parrott, J., Estrada-Ruiz, E., Thompson, D., Upchurch, G.R., Wheeler, E., and Mack, G. The conifer wood flora of the Upper Cretaceous Jose Creek Member, McRae Formation, south-central New Mexico: A preliminary report. Botany 2012, Abstract 408.

Richey, J., and Upchurch, G.R. Inference of pCO₂ Levels During the Late Cretaceous Using Fossil Lauraeae. Botany 2012, Abstract 1335.

2013

Upchurch, G.R. Potomac Group angiosperm leaves: A new look at an old problem. Themes of land plant evolution, a celebration of the contributions of Leo J. Hickey. Botany 2013, Abstract 423. (Invited)

Contreras, D., Upchurch, G. and Mack, G. New data on the structure and phylogenetic position of an extinct Cretaceous redwood. Botany 2012, Abstract 749. (Presentation won the best student paper award, Paleobotanical Section.)

Parrott, J., Upchurch, G., Wheeler, E. and Mack, G. Forest of Giants: An in situ angiosperm forest of Late Cretaceous south-central New Mexico. Botany 2013, Abstract 451.

Lomax, B., Smilie, I., Knight, C., and Upchurch, G. Genome size and the early angiosperms. Botany 2013, Abstract 514.

Upchurch, G.R., Jr. Paleobotany and Cretaceous Arctic warming: A combined empirical and mechanistic perspective. Geological Society of America 2013 Annual Meeting, Paper No. 406-9. (Invited)

Richey, J., Upchurch, G.R., Joeckel, R., Smith, J., Ludvigson, G.A., and Lomax, B.H. Atmospheric carbon dioxide and its relation to carbon cycle perburbations during Ocean Anoxic Event 1d: A high resolution record from dispersed plant cuticle. Geological Society of America 2013 Annual Meeting, Paper No.128-11 (poster).

Scherer, J., Suarez, M.B., Bush, J., and Upchurch, G.R. Jr. Testing a paleoprecipitation proxy across Texas floras. Geological Society of America 2013 Annual Meeting, Paper No. 328-9.

Richey, J., Upchurch, G.R., Joeckel, R., Smith, J., Ludvigson, G.A., and Lomax, B.H. Atmospheric carbon dioxide and its relation to carbon cycle perburbations during Ocean Anoxic Event 1d: A high resolution record from dispersed plant cuticle. American Geophysical Union Fall Meeting, PP33B-1919 (poster).

Upchurch, G.R., Richey, J., Joeckel, R.M., Suarez, M., Ludvigson, G., and Smith, J. Stratigraphy of the Rose Creek Pit, Dakota Formation of Nebraska: Implications for the minimum age of Pentapetalae and Lauraceae. 9th European Palaeobotany and Palynology Conference, 26-31 August 2014, Padova Italy, Abstract Book: 284

Lee, A., Upchurch, G.R., Murchie, E., and Lomax, B. Dark and disturbed for just disturbed? Modelling thermal tolerance to determine habitat preference in early angiosperms. 9th European Palaeobotany and Palynology Conference, 26-31 August 2014, Padova Italy, Abstract Book: 133–134.

Lomax, B., Smillie, I., Knight, C. and Upchurch, G.R. Genome size and angiosperm evolution. 9th European Palaeobotany and Palynology Conference, 26-31 August 2014, Padova Italy, Abstract Book: 146 (poster).

Richey' J.D., Upchurch, G.R., Suarez' M.B., Joeckel' R.M., Smith' J.J., Ludvigson' G.A., and Lomax, B.H. Changes in CO₂ during OAE1d: A Comparison to Other Carbon Cycle Perturbations of the Mesozoic. American Geophysical Union, Fall Meeting, PP13A-1401 (poster).

Scherer, J., Suarez, M., and Upchurch, G.R. Comparison of paleoprecipitation estimates from stable carbon isotope analysis of fusain at two Cretaceous fossil sites. 2014 Geological Society of America Annual Meeting in Vancouver, British Columbia, Paper No. 251-9.

2014

III. Scholarly Activities

Invited Talks, Symposia, and Lectures

1982	Seminar, Paleontological Society of Washington, Washington, D.C.
1985	Seminar, Systematics and Evolution Discussion Group, San Diego Museum of Natural History.
1986	Seminar, Department of Botany, Colorado State University, Fort Collins.
	North American Paleontological Convention IV, Boulder, Colo. Symposium entitled, "Death by earthly causes: A no-nonsense approach to mass extinction." (With Jack A. Wolfe.)
1986	Geological Society of America, Annual Meeting, theme session on the end- Cretaceous extinctions. (Paper presented by Jack A. Wolfe.)
1987	Speaker, Smithsonian Institution, Evolution of Terrestrial Ecosystems Group, conference on paleobotany, paleoclimatology, and the origin of coal.
	Annual meeting, Geological Association of Canada. Symposium entitled, "Evolution of the Western Interior Basin." (With Jack A. Wolfe.)
	Annual Meeting, American Association of Stratigraphic Palynologists. Symposium entitled, "The paleobotany of spores." (Paper presented by Douglas J. Nichols.)
	Bingham Seminar, Department of Geology, Yale University, New Haven, CT.
1988	The Third International Conference on Global Bioevents: Abrupt Changes in the Global Biota. Talks entitled, "Terrestrial environmental changes and plant extinction patterns at the Cretaceous-Tertiary boundary, North America," and "Reinvestigation of the Cretaceous-Tertiary boundary interval at South Table Mountain, Golden, Colorado."
	Climate Club Seminar, National Center for Atmospheric Research.
1989	Speaker, MIT Knight Fellows Symposium on Climate Change, National Center for Atmospheric Research, Boulder, Colorado (for members of the press).
	Speaker at workshop, "Extinction in the Geologic Record." 28th International Geological Congress, Washington, D.C.
	Speaker at workshop, "The Analysis of Phytodebris." Sponsored by the Paleobotanical Section, Botanical Society of America. 1989 Annual Meeting of the Botanical Society of America, Toronto, Canada.
1991	Seminar, Department of EPO Biology, The University of Colorado, Boulder.
	Geological Society of America, 1991 Annual Meeting, theme session on terrestrial extinction at the end of the Cretaceous, San Diego, California.
	Seminar, Department of Botany, The University of Georgia, Athens.

1992 North American Paleontological Convention V, Chicago, IL. Symposium entitled, "The Origin of Modern Terrestrial Ecosystems: The late Mesozoic and Cenozoic." Seminar, Institute for Geophysics, The University of Texas at Austin. Seminar, Department of Geology, The University of Texas at Arlington. 1993 XV International Botanical Congress, Tokyo, Japan. Symposium entitled, "The Impact of Environmental Change on Angiosperm Evolution." (With J.A. Doyle.) Seminar, University of Texas Marine Science Institute, Port Aransas. 1994 Geological Society of America, 1994 Annual Meeting, Coal Geology Symposium. Symposium entitled, "The origin and compositional characteristics of Tertiary coals: Palynological, paleobotanical, and paleoecological aspects." 1994 Seminar, Department of Botany, The University of Texas at Austin. 1995 Speaker, Second Genesis User's Workshop, National Center for Atmospheric Research, Boulder, Colorado. (Conference supported by the Environmental Protection Agency.) 1996 Seminar, Lamont-Doherty Earth Observatory, Columbia University, New York Seminar, Biology Department, Texas State University-San Marcos North American Paleontological Convention-96, Washington, D.C. Symposium entitled, "Reconciling fossil and geochemical data and model results for periods of global warmth" (with B.L. Otto-Bliesner and C. Scotese). Seminar, Department of Ecology, Population, and Organismal Biology, University of Colorado, Boulder. 1997 Seminar, Department of Geology, Southern Methodist University, Dallas, Texas. Royal Society of London, London, England, discussion meeting entitled, "Vegetation-climate-atmosphere interactions: past, present, and future". New Mexico Museum of Natural History, Albuquerque, NM, Annual Symposium on New Mexico Paleontology. 1998 American Geophysical Union, 1998 Spring Meeting, Boston, Massachusetts, symposium on reconciling paleoclimate model output and the paleoclimatic record. Seminar, Paleontological Society of Washington, Washington, D.C. 1999 Presidential Seminar, Texas State University-San Marcos. XVI International Botanical Congress, St. Louis, MO. Symposium entitled, "Paleobotanical approaches to paleoclimate". (With B.H. Lomax, D.J., Beerling, and B.L. Otto-Bliesner). Seminar, Department of Biology, Trinity University, San Antonio, TX

2000	VI International Organization of Paleobotany meeting, Qinhuangdao, China. Symposium entitled, "Paleoclimate and its interaction with vegetation". Seminar, Department of Biology, University of Nebraska at Omaha. Seminar, Institute for Paleontology, University of Bonn, Germany.
	Seminar, Institute and Museum for Geology and Paleontology, University of Tübingen, Germany.
2001	Seminar, Department of Geology, University of Texas at Austin, February 2001.
	Seminar, Department of Geology, Texas A&M University, College Station.
2002	Seminar, Department of Biology, Texas State University-San Marcos.
	Invited participant, NSF-sponsored Workshop on Cretaceous Climate and Ocean Dynamics, Florissant, Colorado.
2003	Seminar, Department of Biology, Texas State University-San Marcos.
2005	XVII International Botanical Congress, Vienna, Austria. Symposium entitled, "Understanding the early diversification of the eudicots" (Susana Magallon and Sara Hoot, organizers).
	Seminar on "How to become a scientist", Department of Biology, Texas State University-San Marcos.
2006	Invited speaker for symposium entitled, "Advances in Paleobotany–Recognizing the Contributions of David L. Dilcher and Jack A. Wolfe on the Occasion of Their 70 th Birthday". Florida Museum of Natural History, Gainesville, Florida (Steven Manchester and Robert Spicer, organizers).
	Invited speaker for symposium on Mesozoic Climate, 7th European Palaeobotany – Palynology Conference, Prague, Czech Republic (Jiri Kvacek and Alexi Herman, organizers).
2007	Speaker, "Half-baked ideas" seminar, Dept. of Biology, Texas State University
2008	Joint Meeting, Geological Society of America, symposium entitled, "Ancient Polar Ecosystems and Environments: Proxies for Understanding Climate Change and Global Warming" (Paper presented by Mike Tapp)
	Joint Meeting, Geological Society of America, symposium entitled, "Gulf of Mexico Coastal Plain Paleontology" (Paper presented by Sergio Cevallos).
2009	Seminar, Department of Geology, University of Texas at Arlington
2010	Seminar, Department of Geology, Baylor University
2012	Seminar, Department of Geology, University of Nebraska, Lincoln, NE
2013	Invited speaker for theme session entitled, "Themes of land plant evolution, a celebration of the contributions of Leo J. Kickey." Botany 2013, New Orleans, LA.

	Invited speaker for topical session entitled, "Ancient polar ecosystems and climate history in deep time". Geological Society of America Annual Meeting, Denver, CO
2014	Invited speaker for scientific session on early flowering plants, 9 th European Palaeobotany Palynology Conference, Padova, Italy, August 26–31, 2014
	Seminar, Department of Biology, Cameron University, Lawton, OK
2015	Seminar, Department of Geological Sciences, University of Colorado, Boulder

Workshops

1989	Invited speaker at workshop, "Extinction in the Geologic Record." 28th International Geological Congress, Washington, D.C., July 15-16, 1989.
	Invited speaker at workshop, "The Analysis of Phytodebris." Sponsored by the Paleobotanical Section, Botanical Society of America. 1989 Annual Meeting of the Botanical Society of America, Toronto, Canada, August 6, 1989.
1991	Convener of workshop, "The Analysis of Dispersed Cuticles". Exxon Production Research Company, Houston, Texas, April, 1991.
1993	Invited participant, First Genesis User's Workshop, National Center for Atmospheric Research, September 1993. (Conference supported by the Environmental Protection Agency.)
1995	Invited speaker, Second Genesis User's Workshop, National Center for Atmospheric Research, Boulder, Colorado, August 1995. (Conference supported by the Environmental Protection Agency.)
2002	Invited participant, NSF-sponsored Workshop on Cretaceous Climate and Ocean Dynamics, Florissant, Colorado.

Laboratory visitors

1995	Dr. David Beerling (University of Sheffield, UK)
1996	Prof. David Dilcher (University of Florida) Prof. James Doyle (University of California, Davis) Dr. Jack Wolfe (University of Arizona)
1999	Prof. David Beerling and Mr. Barry Lomax (University of Sheffield, UK)
2001, 2002	Mr. Kevin Carpenter (University of California, Davis)
2003	Prof. Brian Axsmith (University of South Alabama) Prof. Gar Rothwell (Ohio University) Mr. Kevin Carpenter (University of California, Davis)
2004	Profs. Claudia Johnson and Erle Kauffman (Indiana University, Bloomington) Dr. Conrad LaBandiera (Smithsonian Institution)
2006	Prof. Carlie Phipps (SUNY Institute of Technology) Ms. Crystal Mathisrud (University of Wisconsin, River Falls)

2006, 2007	Dr. Sergey Vikulin, Komorov Botanical Institute, St. Petersburg, Russia Prof. Carlie Phipps (SUNY Institute of Technology) Mr. Mark Gorman (University of Colorado, Boulder) Ms. Crystal Mathisrud (University of Wisconsin, River Falls)
2008	Prof. Taylor Feild (University of Tennessee, Knoxville) Mr. James Michael Tapp (University of Alaska, Fairbanks) Mr. Emilio Estrada-Ruiz (UNAM, Mexico City) Ms. Patricia Vallela (Denver University—enrolled in Texas State Ph.D. program 2008–2010)
2009	Dr. Scott Wing (U.S. National Museum of Natural History, Washington, D.C.)
2010–2012	Dr. Emilio Estrada-Ruiz (CONACYT postdoctoral fellow, Mexico)
2011, 2013	Dr. Barry Lomax, University of Nottingham, UK
2012	Dr. Lisa Boucher, University of Texas, Austin
2013	Dr. Emilio Estrada-Ruiz, National Polytechnic University of Mexico, Mexico City Dr. Marina Suarez and Ms. Jacqeline Scherer, University of Texas, San Antonio
2014	Dr. Ruth Stockey, Oregon State University Ms. Dori Contreras, University of California, Berkeley Mr. Ludovic Renard, University of British Columbia, Canada

Consulting

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1982	Smithsonian Instutution Press, information contributor to book, <i>Thread of Life: The Smithsonian Looks at Evolution</i> .
1989	Denver Museum of Natural History, Department of Earth Science.
1990	Amoco Production Company, Houston, TX.
	Denver Museum of Natural History, Department of Earth Science.
1991	Denver Museum of Natural History, Department of Earth Science.
1992	National Geographic, artistic advisor for January 1993 issue on Dinosaurs.
1993	Saunders Publishing, Reviewer of <i>Botany</i> , second edition, by James Mauseth (Chapters 1–9).
1998–2000	Netrologic Inc., scientist on National Cancer Institute SBIR Grant entitled, "Identification of plants using neural network technology."
2000	Holt, Reinhart and Winston, Inc., evaluator of secondary science textbooks.
2004	Brooks/Cole Thompson Learning, review of <i>Plant Biology</i> , 2 nd Edition, by Rost et al. (Chapters 10, 25)
	McGraw Hill Publishers, review of Essentials of Biology, 1st Edition (Chapters 20–21).
	Prentice Hall Publishers, review of <i>Biology: Inquiries and Insights</i> , by Insel et al. (Chapters 1–4).
2005	John Wiley Publishers, review of <i>Biology: Understanding Life</i> , by Alters and Alters (Chapters 18, 20, 23)
2012	Dr. Isabel Montanez, University of California, Davis.

Media coverage and external recognition of research

1986	Science News, August 23 issue, article entitled, "Extinctions: The earthly argument."
	Mosaic, article entitled, "Mass extinctions: The biological side."
1988	Science, February 12 issue, Research News article entitled, "Was there a prelude to the dinosaurs' demise?"
1990	Omaha World Herald, February 25 edition, article on early flowering plant fossils from Nebraska.
	ABC Evening News and Denver channels, October and November, stories on the paleontology of Denver International Airport, Denver Museum of Natural History.
1993	Discussion of research on fossil Gnetales and the Cretaceous-Tertiary boundary extinctions in textbook, <u>Paleobotany and the Evolution of Plants</u> , 2 nd edition, by W.N. Stewart and G.W. Rothwell. Cambridge University Press, Cambridge, UK, p. 379, 492–501.
	Resource News (the quarterly newsletter of the Nebraska Conservation and Survey Division), v. 2, no. 1, article entitled, "Leaf fossil bears Roger Pabian's name".
1994	New Waves, March issue, article on modeling ancient climate and vegetation.
1995	Hill Views, Summer issue, article on research entitled, "Forecast from the past."
1997	British Broadcasting Corporation, Radio 4, interviewee for Science Now, May 24, 1997.
1999	Discussion of research and reproduction of published maps on Late Cretaceous and early Tertiary vegetation in textbook, <u>Late Cretaceous and Cenozoic History of North American Vegetation</u> , by Alan Graham. Oxford University Press, Oxford, UK, p. 152–161, 195.
1999	The Daily University Star, April 22, 1999, article entitled, "SWT groups celebrate Earth Day, promote environmental awareness".
2000	Discussion of fossil Gnetales and reproduction of published illustrations of Gnetales and Cretaceous flowering plants in textbook, <u>Green Plants: Their Origin and Diversity, 2nd edition</u> , by P.R. Bell and A.R. Hemsley. Cambridge University Press, Cambridge, UK, p. 259–261, 307.
	Report on research in article entitled, "Back to the future for plant and ecosystem evolution", by D. Beerling and J. Francis. <i>Trends in Ecology and Evolution</i> , v. 15 (11), November 2000, p. 442.
2001	Write-up of paper published by Knaus, Upchurch, and Gillespie in <i>Review of Palaeobotany and Palynology</i> in article entitled, "Annual Review of Paleobotany for 2000", by K.B. Pigg and M.L. DeVore. <i>Geotimes</i> (July 2001), p. 35.
2002	Press articles on paper published by Beerling, Lomax, Royer, Upchurch, and Kump in <i>Proceedings of the National Academy of Sciences USA</i> . Gary Upchurch and/or Southwest Texas State University (now Texas State University) are mentioned in articles published by <i>National Geographic Press</i> and <i>BBC News</i> . (Research is also discussed in <i>Science News</i> and <i>New Scientist</i> but without mention of Gary Upchurch or Southwest Texas State University. The <i>National Geographic News</i> story is still posted on the Texas State University web site at: http://www.mrp.swt.edu/mrp/relations/news/news13 nag.html.)
	The abominable Mystery of the First Flowers: Clues from Nebraska and Kansas, by M.R. Bolick and R.K. Pabian (web article on the mid-Cretaceous Rose Creek paleoflora of southeastern Nebraska that mentions the work of Gary Upchurch and David Dilcher). (Story paleographical)

no longer posted.)

2007

1987

"Russian Academy of Sciences begins collaborative research with Texas State University." Spectrum (newsletter of the College of Science, Texas State University) 6 (2): 2, 7.

Papers presented at professional meetings (oral unless otherwise indicate

Papers pi	resented at professional meetings (oral unless otherwise indicate
1978	Upchurch, G.R., Jr. A preliminary report on the cuticular structure of the oldest known structurally preserved angiosperm leaves. Botanical Society of America, 1978 Annual Meeting, Blacksburg, Virginia.
1979	Upchurch, G.R., Jr. The cuticular anatomy of <i>Sapindopsis</i> from the Lower Cretaceous Potomac Group of Virginia and Maryland. Botanical Society of America, 1979 Annual Meeting, Stillwater, Oklahoma.
1980	Upchurch, G.R. Jr., and Doyle, J.A. Paleoecology of the conifers <i>Frenelopsis</i> and <i>Pseudofrenelopsis</i> (Cheirolepidiaceae) from the Cretaceous Potomac Group of Maryland and Virginia. Geobotany II conference, Bowling Green University, Bowling Green, Ohio.
1983	Upchurch, G.R., Jr. <i>Ficophyllum</i> leaves from the Lower Cretaceous Potomac Group: Evidence for possible affinities with Magnoliales and Austrobaileyaceae. Botanical Society of America, 1983 Annual Meeting, Grand Forks, North Dakota.
	Upchurch, G.R., Jr. The cuticular anatomy of "platanoid" leaves from the Lower Cretaceous Potomac Group. Botanical Society of America, 1983 Annual Meeting, Grand Forks, North Dakota.
	Upchurch, G.R., Jr., Hickey, L.J., and Niklas, K.J. Leaves with chloranthoid characters from the Lower Cretaceous Potomac Group. Botanical Society of America, 1983 Annual Meeting, Grand Forks, North Dakota.
1984	Upchurch, G.R., Jr., and Dilcher, D.L. A magnoliid leaf flora from the mid-Cretaceous Dakota Formation of Nebraska. Botanical Society of America, 1984 Annual Meeting, Fort Collins, Colorado.
	Upchurch, G.R., Jr., and Dilcher, D.L. Magnoliid leaves from the Cretaceous Dakota Formation of Nebraska and Kansas. Abstracts of Contributed Papers and Poster session, Second International Organization of Paleobotany Conference, Edmonton, Alberta, Canada.
1985	Upchurch, G.R., Jr., and Crane, P.R. Probable gnetalean megafossils from the Lower Cretaceous Potomac Group of Virginia. Botanical Society of America, 1985 Annual Meeting, Gainesville, Florida.
	Upchurch, G.R., Jr., Nichols, D.J., Fleming, R.F., Tschudy, R.H., and Pillmore, C.L. Cuticular and palynological analyses of vegetational change across the Cretaceous-Tertiary boundary at Sugarite, Raton Basin, New Mexico. Botanical Society of America, 1985 Annual Meeting, Gainesville, Florida.
1986	Upchurch, G.R., Jr., and Wolfe, J.A. Vegetational and climatic change at the Cretaceous-Tertiary boundary, North America. Fourth North American Paleontological Convention, Boulder, Colorado. (Invited).

Upchurch, G.R., Jr., and Wolfe, J.A. Cretaceous vegetation of the Western Interior of

North America. Geological Association of Canada, 1987 Annual meeting, Saskatoon,

Saskatchewan, Canada (Invited).

Upchurch, G.R., Jr., and Wolfe, J.A. Extinction patterns in Laurales at the Cretaceous-Tertiary boundary, southern Rocky Mountains. Botanical Society of America, 1987 Annual Meeting, Columbus, Ohio.

Upchurch, G.R., Jr., and Wolfe, J.A. Foliar diversity in latest Cretaceous Laurales. Botanical Society of America, 1987 Annual Meeting, Columbus, Ohio.

Upchurch, G.R., Jr., and Wolfe, J.A. Plant extinction patterns at the Cretaceous-Tertiary boundary, Raton and Denver basins. Geological Society of America, 1987 Annual Meeting, Phoenix, Arizona.

1988

Upchurch, G.R., Jr. Terrestrial environmental changes and plant extinction patterns at the Cretaceous-Tertiary boundary, North America. The Third International Conference on Global Bioevents: Abrupt Changes in the Global Biota, Boulder, Colorado (Invited).

Upchurch, G.R., Jr., Kauffman, E.G., and Nichols, D.J. Reinvestigation of the Cretaceous-Tertiary boundary at South Table Mountain, Golden, Colorado. Third International Conference on Global Bioevents: Abrupt Changes in the Global Biota, Boulder, Colorado (Invited).

Upchurch, G.R., Jr. Chloranthoid foliage from the latest Cretaceous and earliest Tertiary of the central Rocky Mountains. Botanical Society of America, 1988 Annual Meeting, Davis, California.

1989

Upchurch, G.R., Jr., and Askin, R.A. Vegetational and floristic change across the Cretaceous-Tertiary boundary, Seymour Island, Antarctica. Geological Society of America, 1989 Annual Meeting, Kansas City, Missouri.

1990

Upchurch, G.R., Jr., and Askin, R.A. Vegetational and floristic change across the Cretaceous-Tertiary boundary, Seymour Island, Antarctic Peninsula. Botanical Society of America, 1990 Annual Meeting, Richmond, Virginia.

1991

Upchurch, G.R., Jr. Changes in terrestrial vegetation and climate across the Cretaceous-Tertiary boundary: A global perspective. Geological Society of America, 1991 Annual Meeting, San Diego, California (Invited).

1992

Upchurch, G.R., Jr., and Olson, J. Patterns of terrestrial plant carbon: Late Mesozoic and Cenozoic. Geological Society of America, 1992 Annual Meeting, Cincinnati, Ohio.

Upchurch, G.R., Jr., Cretaceous vegetational change: A biomal perspective. North American Paleontological Convention V, Chicago, Illinois (Invited).

1993

Upchurch, G.R., Jr., and Doyle, J.A. The rise of angiosperms: A global perspective. XV International Botanical Congress, Yokohama, Japan (Invited).

1994

Upchurch, G.R., Jr. Dispersed plant cuticles: A brief history and application to coals of the Raton Basin. Coal Geology Symposium, Geological Society of America, 1994 Annual Meeting, Seattle, Washington (Invited).

Upchurch, G.R., Jr., and Mack, G.H. Systematics and paleoecology of a Late Cretaceous (Maastrichtian) megaflora, Jose Creek Member, McRae Formation, New Mexico. Botanical Society of America, 1994 Annual Meeting, Knoxville, Tennessee.

1995

Upchurch, G.R. Jr., Otto-Bliesner, B.L., and Scotese, C.R. Latest Cretaceous paleovegetation and global climate: Comparison of proxy data with GENESIS simulations. Second Genesis Users' Workshop, National Center for Atmospheric Research, Boulder, Colorado (Invited).

Upchurch, G.R., Jr., Otto-Bliesner, B.L., and Scotese, C.R. Latest Cretaceous paleovegetation and climate: Comparison of proxy and model data. American Geophysical Union, 1995 Spring Meeting, Baltimore, Maryland.

1996

Upchurch, G.R., Jr., Otto-Bliesner, B.L., and Scotese, C. Vegetation and warm climate during the latest Cretaceous. International Organization of Paleobotany Conference, Santa Barbara, California.

Upchurch, G.R., Jr., Otto-Bliesner, B.L., and Scotese, C. Vegetation and warm climates during the latest Cretaceous. North American Paleontological Convention-96, Washington, D.C. (Invited).

1997

Upchurch, G.R., Jr., Marino, B.D., Mone, W.E., and McElroy, M.B. Carbon isotope ratios in extant and fossil plant cuticle. 1997 Annual Meeting, Botanical Society of America, Montreal, Canada.

Dunn, K.A., Upchurch, G.R., McLean, R.J.C., and Folk, R.L. Biofilm enhancement of leaf fossilization potential: Experimental evidence. 1997 Annual Meeting, Botanical Society of America, Montreal, Canada.

Upchurch, G.R. Plant megafloras from the Jose Creek Member, McRae Formation, south-central New Mexico. First Annual Conference on New Mexico Paleontology, Albuquerque, New Mexico.

1998

Upchurch, G.R., Jr., Lomax, B.H., Beerling, D.J., and Otto-Bliesner, B.L. Primary productivity modeling: A tool for integrating climate model output and geologic climate proxies. American Geophysical Union, 1998 Spring Meeting, Boston, Massachusetts (Invited).

Upchurch, G.R., Jr., Lomax, B.H., Beerling, D.J., and Otto-Bliesner, B.L. Modeling the impact on terrestrial ecosystems of long-term climatic changes across the Cretaceous-Tertiary boundary. American Geophysical Union, 1998 Fall Meeting, San Francisco, California.

1999

Upchurch, G.R., XVI International Botanical Congress, St. Louis, MO. Symposium entitled, "Paleobotanical approaches to paleoclimate". Presentation entitled, "Integrating paleobotany with climate modeling" (Invited).

(poster) Wadleigh, F., Meacham, C., and Upchurch, G.R., Jr. XVI International Botanical Congress, St. Louis, MO. Presentation entitled, "Automated identification of plants using neural networks."

2000

Upchurch, G.R., VI International Organization of Paleobotany meeting, Qinhuangdao, China. Symposium entitled, "Paleoclimate and its interaction with vegetation." Presentation entitled, "Comparing paleobotanical estimates of climate and climate model output: An example from the latest Cretaceous" (Invited).

Upchurch, G.R., Jr. Informal presentation for Paleobotanical Section, Botany 2000 (National meeting of the Botanical Society of America).

2001

Upchurch, G.R., Jr. Informal presentation at Annual Meeting of American Association of Stratigraphic Palynologists, San Antonio, TX.

2002

(poster) Upchurch, G.R., Jr., Beerling, D.J., Lomax, B.H., and Otto-Bliesner, B.L. Workshop on Cretaceous Climate and Ocean Dynamics, Florissant, Colorado. Presentation entitled, "Latest Cretaceous global vegetation: Current understanding and areas for future study" (Contributed paper at an invitation-only conference).

(poster) Scherer, J., Upchurch, G.R., Jr., Mack, G.H., and Knaus, M.J. Workshop on Cretaceous Climate and Ocean Dynamics, Florissant, Colorado. Presentation entitled, "How consistently do regression models of foliar physiognomy predict Cretaceous climate?" (Contributed paper at an invitation-only conference).

2003

Upchurch, G.R. Jr., Mack, G.H., and Wheeler, E.A. Presentation at Botany 2003, Mobile, AL. Presentation entitled, "Late Cretaceous fossil forests from south-central New Mexico."

Scherer, J., and Upchurch, G.R., Jr. Presentation at the Geological Society of America, 2003 Annual Meeting, Seattle, WA. Presentation entitled, "Maastrichtian latitudinal temperature gradients and tropical temperatures: Paleobotanical evidence from North America." (paper presented by G. Upchurch).

2004

Upchurch, G.R., Jr. Presentation at the 21st Annual Mid-Continent Paleobotanical Colloquium, Sam Noble Museum of Natural History, Norman, Oklahoma. Presentation entitled, "Climate, vegetation, and mass extinction: What do we know now?"

2005

Upchurch, G.R., and Wolfe, J.A. Presentation at the XVII International Botanical Congress, Vienna, Austria. Presentation entitled, "Cretaceous and early Tertiary history of primitive eudicots in North America."

Upchurch, G.R., and Wolfe, J.A. Presentation at Botany 2005, Austin, Texas. Presentation entitled, "Re-examination of foliage of Nelumbonaceae from the Cretaceous and Early Tertiary of North America."

2006

Upchurch, G.R., Beerling, D.J., and Lomax, B.H. Paleobotanical evidence on environmental change at the Cretaceous-Tertiary boundary, North America. Presentation at meeting entitled, "Advances in Paleobotany–Recognizing the Contributions of David L. Dilcher and Jack A. Wolfe on the Occasion of Their 70th Birthday".

2007

Upchurch, Garland, and Vikulin, S.V. Improved Techniques for the Preparation of Leaves From Extant and Organically Preserved Fossil Seed Plants. Botany 2007, the annual meeting of the Botanical Society of America.

Vikulin, S.V., Upchurch, Garland, and LePage, B.A. Cuticle micromorphology of *Glyptostrobus* from the Early Cenozoic of the Canadian Arctic. Botany 2007, the annual meeting of the Botanical Society of America.

(poster) Upchurch, G.R., Jr., and Marino, B.D. Plant cuticle: A geochemical and biophysical sensor of the carbon cycle. American Geophysical Union, 2007 Fall Meeting.

2008

Upchurch, G.R., Estrada-Ruiz, E., and Cevallos-Ferriz, S. Did tropical rainforest vegetation exist during the Late Cretaceous? New data from the late Campanian to early Maastrichtian Olmos Formation, Coahuila, Mexico. American Geophysical Union, Fall Meeting.

2009

Upchurch, G.R., Kiehl, J., Shields, C., and Scotese, C.R. Coupled climate model simulations of the latest Cretaceous (Maastrichtian): Comparison with proxy data. Geological Society of America, 2009 Annual Meeting.

(poster) Upchurch, G.R., Kiehl, J.T, Shields, C.A., and Scotese, C.R. Coupled Climate Model Simulations of a Late Cretaceous (Maastrichtian) Greenhouse Climate: Comparison with Proxy Data. American Geophysical Union Fall Meeting.

(poster) Schwartz, B.F., Upchurch, G.R., Willard, D.A., Bernhardt, C.E., and Valella, P.A. A New Late Glacial Site in the Central Appalachians of Virginia. Preliminary Findings From Paleobotany, Palynology, and Geomorphology. American Geophysical Union Fall Meeting.

(poster) Shields, C.A., Kiehl, J.T., Upchurch, G.R., and Scotese, C. Monsoons across Epochs: Diagnosing Monsoonal Circulations across Warm, Greenhouse Climates as Simulated by the Community Climate System Model (CCSM3). American Geophysical Union Fall Meeting

2010

(poster) Upchurch, G.R., and Feild, T. The rise of flowering plants and land surface physics: the Cretaceous and Eocene were different. American Geophysical Union Fall Meeting.

(poster) Shellito, L.J., Upchurch, G.R., Shields, C.A., and Kiehl, J.T. The role of vegetation in high-latitude warming during the latest Cretaceous. American Geophysical Union Fall Meeting.

2011

(poster) Richey, J. and Upchurch, G.R. Inference of pCO₂ levels during the Late Cretaceous using fossil Lauraceae. American Geophysical Union Fall Meeting.

2012

Upchurch, G.R., Mack, G., Estrada-Ruiz, E., Wheeler, E., Parrott, J., Thompson, D., and Richey, J. Late Cretaceous Plant Macrofloras From South-Central New Mexico: A Preliminary Report. Botany 2012, Abstract 340.

(poster) Richey, J., and Upchurch, G.R. Inference of pCO₂ Levels During the Late Cretaceous Using Fossil Lauraeae. Botany 2012, Abstract 1335.

2013

Upchurch, G.R. Potomac Group angiosperm leaves: A new look at an old problem. Themes of land plant evolution, a celebration of the contributions of Leo J. Hickey. Botany 2013, Abstract 423. (Invited)

Upchurch, G.R., Jr. Paleobotany and Cretaceous Arctic warming: A combined empirical and mechanistic perspective. Geological Society of America 2013 Annual Meeting, Paper No. 406-9. (Invited)

(poster) Richey, J., Upchurch, G.R., Joeckel, R., Smith, J., Ludvigson, G.A., and Lomax, B.H. Atmospheric carbon dioxide and its relation to carbon cycle perburbations during Ocean Anoxic Event 1d: A high resolution record from dispersed plant cuticle. Geological Society of America 2013 Annual Meeting, Paper No.128-11.

(poster) Richey, J., Upchurch, G.R., Joeckel, R., Smith, J., Ludvigson, G.A., and Lomax, B.H. Atmospheric carbon dioxide and its relation to carbon cycle perburbations during Ocean Anoxic Event 1d: A high resolution record from dispersed plant cuticle. American Geophysical Union Fall Meeting, PP33B-1919.

2014

Upchurch, G.R., Richey, J., Joeckel, R.M., Suarez, M., Ludvigson, G., and Smith, J. Stratigraphy of the Rose Creek Pit, Dakota Formation of Nebraska: Implications for the minimum age of Pentapetalae and Lauraceae. 9th European Palaeobotany and Palynology Conference, 26-31 August 2014, Padova Italy, Abstract Book: 284

Reviews and review panels

Manuscript reviews (list incomplete)

1985 Palynology

U.S. Geological Survey Professional Papers series

1986 Annals of the Missouri Botanical Garden

1987 Annals of the Missouri Botanical Garden

1989 Science

Annals of the Missouri Botanical Garden

1990 Transactions of the Royal Society of South Australia

1991 Cretaceous Research

Paleobiology

Palaeogeography, Palaeoclimatology, Palaeoecology

Advances in Legume Systematics: Part 4. The Fossil Record, P.S. Herndeen and D.L.

Dilcher (eds.), The Royal Botanical Gardens, Kew.

1992 International Journal of Plant Science

1993 Palaeogeography, Palaeoclimatology, Palaeoecology

Marine Micropaleontology, special issue on Pliocene climates.

Post-glacial environmental changes - Quaternary and Permian, I. Peter Martini (ed.),

Oxford University Press.

The Anther: Form, Function, and Phylogeny, W.G. D'Arcy and R.C. Keating (eds.),

Cambridge University Press.

1995 Review of Palaeobotany and Palynology

International Journal of Plant Science

Geological Society of America Special Paper (issue on Florissant geology).

1996 Review of Palaeobotany and Palynology

Palaios

1998 Botanical Journal of the Linnaean Society

1999 Palaios

2001 American Journal of Botany

Canadian Journal of Botany

Geological Society of America Special Papers

2004 American Journal of Botany

Global and Planetary Change

Palaios

2005 Palaeogeography, Palaeoclimatology, Palaeoecology

Paleobiology

Special volume on Neogene vegetation of Europe (ed. D. Uhl and V. Mosbrugger)

2006 Palaeontologica Electronica

2007 American Journal of Botany (x5)

American Naturalist

Canadian Journal of Earth Sciences

Courier Forschungsinstitut Senckenberg

Journal of Geophysical Research, Biogeosciences Occasional Papers of the Yale Peabody Museum

2008 Palaeontology

Palaios

2009 International Journal of Coal Geology

Lethaia

Palaeogeography, Palaeoclimatology, Palaeoecology

2010—2012 I forget

2013 American Journal of Botany

Frontiers in Plant Science.

Geological Society of America Special Papers (x2)

2014 American Journal of Botany

Botanical Journal of the Linnaean Society

Bulletin of the Peabody Museum of Natural History

Cretaceous Research Historical Biology

Journal of the Geological Society of London

Perspectives in Plant Ecology, Evolution, and Systematics

Taxon

2015 Botanical Journal of the Linnaean Society

Palaeogeography, Palaeoclimatology, Palaeoecology

Taxon

Grant proposal reviews (list incomplete)

1986	National Science Foundation, Systematic Biology Program (2)
1987	National Science Foundation, Systematic Biology Program
1988	National Science Foundation, Polar Earth Sciences Program National Science Foundation, Paleontology and Stratigraphy Program
1990	L.S.B. Leakey Foundation
1991	National Science Foundation, Systematic Biology Program
1994	National Science Foundation, Paleontology and Stratigraphy Program
1995	Paleontological Society International Research Program
1996	National Center for Atmospheric Research (Supercomputing proposal)
2000	National Science Foundation, Nebraska EPSCOR program
2001	Review Panel, Research Enhancement Program, College of Science, Texas State University
2002	Review Panel, Research Enhancement Program, College of Science, Texas State University NERC (National Environmental Research Council), UK
2004	National Science Foundation, Paleontology and Stratigraphy Program National Science Foundation, Systematic Biology Program

2005	National Science Foundation, Systematic Biology Program NERC (National Environmental Research Council), UK
2007	National Science Foundation, Paleontology and Stratigraphy Program
2009	NERC (National Environment Research Council), UK, British Antarctic Survey/NERC Antarctic Funding Initiative
2010–2014	I forget.
2015	National Science Foundation, Sedimentary Geology and Paleontology Program

Teaching workshops

1997	University of Houston, "Rethinking undergraduate education and the core."
	Texas State University-San Marcos, "Thinking about freshmen."
	Texas State University-San Marcos, "Improving your teaching and your student evaluations."
	Texas State University-San Marcos, "How to become an OSCAR winning teacher", teleconference led by Tony Grasha.
1998	Texas State University-San Marcos, "Using interactive television (ITV) for distance education: SWT and ITV - past, present, and future."
2004	Texas State University-San Marcos, "Educating the 'NetGen': Strategies That Work", live teleconference.
	Texas State University-San Marcos, "Classroom Civility (or Incivility?): A Workshop.
2005	W.H. Freeman Publishers and Sinauer Associates Publishers, invited participant at conference entitled, "Improving Biology Education: Theory and Practice." Inn of the Governors, Santa Fe, New Mexico (various presenters).