

CURRICULUM VITAE

Name: Robert Angelo Gastaldo

College Status: Whipple-Coddington Professor of Geology

Home Address: 100 South Reynolds Road, Winslow, ME 04901

College Address: Department of Geology, Colby College, 5807 Mayflower Hill, Waterville, ME 04901-8858

Birth date: December 31, 1950

Marital Status: Married

Spouse's Name: Elvira Harman Gastaldo

DEGREES RECEIVED

B.A. Gettysburg College, Gettysburg, Pennsylvania 17325, 5/72

M.S. Southern Illinois University, Carbondale, Illinois 62901, 5/75

Ph.D. Southern Illinois University, Carbondale, Illinois 62901, 8/78

HONORS AND AWARDS

Gilbert H. Cady Award, Energy Division, Geological Society of America, 2016

Fulbright Fellowship, Rhodes University, Grahamstown, South Africa 2013

Short-term Visiting Scientist, Alexander von Humboldt Stiftung, Bonn, Germany 2012

GSA Committee on Research Grants as Member-at-Large 2011-2014

Paleontological Society Centennial Fellow 2008-present

Distinguished Service Award, Society for Sedimentary Geology (SEPM) 2008

PALAIOS Best Paper of 2004 – Honorable Mention

Councilor-at-Large, Paleontological Society, 2002-2004

Invited Participant – Paleontological Society Short Course 1999

Invited Participant – Penrose Conference 1998

College of Science & Mathematics Research Award, Auburn University (Physical Sciences) 1997-1998

Smithsonian Institution Short-Term Visitor 1997

NSF EAR Geology & Paleontology Panel Member 1997-2002

Member, SEPM Council 1996-2002

Distinguished Lecturer, GSA Coal Geology Division 1996-1998

Best Paper, Coal Geology Division, GSA National Meetings 1995

Fellow, Geological Society of America 1994-present

Distinguished Lecturer, Paleontological Society 1994-1995; 1995-1996

Adjunct Professor of Geology, University of Pennsylvania, Department of Geology 1992-present

Senior U.S. Research Award, Forschungspreisträger, Alexander von Humboldt-Stiftung, Bonn 1991-1992.

Chairman, Coal Division, Geological Society of America 1991-1992; Chairman-elect 1990-1991

Alumni Professorship, Auburn University 1990-1991; 1992-1996

Visiting Curator, Department of Geology, Field Museum of Natural History, Chicago 1986-1987 (NSF BSR 8702337 curatorial grant)

Research Collaborator, Department of Paleobiology, Smithsonian Institution (renewed 1998-2002)

President, Southeastern Section Paleontological Society 1986-87; President-elect 1985-86

Fulbright Fellowship, Netherlands American Commission for Educational Exchange, Laboratory of Paleobotany and Palynology, Utrecht, The Netherlands 1982

International Lecturer: United States - United Kingdom Educational Commission, London 15 May - 24 May 82;

Franco-American Commission for Educational Exchange, Paris 1 June - 5 June 82

Graduate Faculty Status, Auburn University, AL 1982

Department of Geology, Best Teacher 1981-1982; 1985-1986

Phi Kappa Phi, National Honor Society

Member Sigma Xi, The Scientific Research Society of North America

EDITORIAL BOARDS

International Journal of Palaeontology and Stratigraphy – Editorial Board, 2008-present
Senckenbergiana Lethaea, Senckenberg Museum, Frankfurt – Editorial Board 2006-2008
Journal of Taphonomy, Prometheus Press – Editorial Board 2002-present
PALAIOS, Society of Sedimentary Geology – Co-editor 1996-2002
PALAIOS, Society of Sedimentary Geology – Associate Editor 1989-1996; 2002-2009
Review of Palaeobotany and Palynology, Elsevier – 1993-2007
Bulletin of the Geological Society of America – 1993-1996

PROFESSIONAL SOCIETY MEMBERSHIPS

Palaeontological Association	The Paleontological Society
Geological Society of America	Botanical Society of America (Paleobotanical Section)
Society of Economic Paleontologists & Mineralogists	International Organization of Palaeobotany
American Association of Stratigraphic Palynologists	Schlotheimia
Alabama Geological Society	International Peat Society

POSITIONS HELD

Member-at-Large, Geological Society of America Committee on Research Grants, 2011-2014
Councilor-at-Large, Paleontological Society, 2002-2004
Whipple-Coddington Professor of Geology, Colby College, ME 9/99-present
Alumni Professor of Geology, Auburn University, AL 9/90-8/91; 9/92-8/96
Senior U.S. Research Scientist, Alexander von Humboldt-Stiftung 8/91-9/92 Institut und Museum für Geologie und Paläontologie, Der-Georg-August Universität, Göttingen, Germany.
Professor of Geology, Auburn University, AL 9/88-6/99
Associate Professor of Geology, Auburn University, AL 9/83-9/88
Assistant Professor of Geology, Auburn University, AL 9/78-9/83
Fulbright Research Scholar, Netherlands-America Commission for Educational Exchange 3/82-8/82 Laboratory of Palaeobotany and Palynology, Utrecht
Geologist, Kansas Geological Survey, Lawrence, KS 8/89.

GRANT & CONTRACT SUPPORT

2018 Glasspool, I., and Gastaldo, R.A., RUI: The Timing and Evolution of Devonian Fire Systems and Their Implications for Atmospheric Oxygen Concentration: NSF EAR 1828359, \$231,571.
2017 Yang, W., Crowley, J.L., Tabor, N.J., Geissman, J.W., Gastaldo, R.A., Angielczyk, K.D., Roopnarine, P.D., and Sidor, C.A., Collaborative Research: Terrestrial Late Permian to Early Triassic Earth Systems in NE Pangea: Insights into the Tempo, Effects, and Causes of the End-Permian Mass Extinction: NSF IES 1714759 – \$249,533 (\$2,095,544 total request)
2016 Gastaldo, R.A., ABR/RUI Is the Terrestrial Permian-Triassic Boundary in the Karoo Basin? Implications for the Response of the Terrestrial Ecosystems to the End-Permian Extinction Event, NSF EAR 1624302 – \$190345
2011 Gastaldo, R.A., Terrestrial Age Constraints for the *Dicynodon* Assemblage Zone, South Africa: Implications for the Timing of the End-Permian Mass Extinction: NSF EAR 1123570 – \$125000.
2009 Gastaldo, R.A., Taphonomic Character of Plant Fossil Assemblages at the Permian-Triassic Boundary, Karoo Basin, South Africa – Chronometric Controls on the Permian/Triassic Boundary, Karoo Basin, South Africa, NSF EAR 0934077– \$14646
2007 Gastaldo, R.A., Chronometric constraint on the Permian-Triassic Boundary, Wapadsberg Pass, South Africa: Supplement to NSF EAR 0749895 – \$11000.
2004 DiMichele, W.A., Pfefferkorn, H.W., and Gastaldo, R.A., Terrestrial ecosystem reorganization during global deglaciation in a cold-Earth : warm-Earth transition: NMNH Mary Walcott Fund – \$20,000.
2004 Gastaldo, R.A., RUI: Taphonomic Character of Plant Fossil Assemblages at the Permian-Triassic Boundary, Karoo Basin, South Africa: National Science Foundation, Earth Science. NSF EAR0417317 – \$67926.

- 2004 Gastaldo, R.A., CUES (Constructing Understanding of Earth Systems) Biosphere Module, American Geological Institute, Middle School Curriculum Project – \$4,500
- 2003 Gastaldo, R.A., CUES (Constructing Understanding of Earth Systems) Biosphere Module, American Geological Institute, Middle School Curriculum Project – \$1,500
- 2002 Pfefferkorn, H.W., and Gastaldo, R.A., Collaborative Research: Tropical Vegetation during the Early Part of an Ice Age: An intercontinental comparison of Mid-Carboniferous floras in their Geochronologic setting. NSF EAR 0207359 – \$74,812
- 2001 King, D.W., Gastaldo, R.A., and Shosa, J.D., Integrated Sampling and Analysis Platform for the Investigation of Lake Geochemistry Over a Range of Temporal and Spatial Scales. NSF MRI 0115900 – \$99,760.
- 2000 Gastaldo, R.A., and Nelson, R.E., RUI: Analysis of an Early-Middle Devonian Ecosystem: Trout Valley Formation, Maine. National Science Foundation, Geology & Paleontology. NSF EAR 0087433 – \$105,000.
- 1998 Gastaldo, R.A. and Pross, J., Organic Matter Characterization and Distribution in a Holocene Incised Valley Fill Sequence. Max Kade Foundation Exchange Visitor Research Program – \$33,500.
- 1998 Gastaldo, R.A. Palynofacies characterization of a Holocene Incised Valley Fill: Mobile Bay, Alabama. ACS- PRF 33429-AC8 – \$60,000.
- 1998 Gastaldo, R.A. EARTHCOMM Unit VI - Earth System Evolution. American Geological Institute Curriculum Development Project – \$8,000.
- 1997 Gastaldo, R.A. Systematics of Carboniferous Tree-Fern foliage. Smithsonian Institution Short-Term Visitor Program – \$1,850.
- 1996 Gastaldo, R.A. EarthWorks! Paleontology: Life in the Past. American Geological Institute Curriculum Development Project – \$15,000.
- 1996 Gastaldo, R.A. Request for a Modified Fisher 1650 Mv Aluminum Boat with 40hp Mercury Outboard for Water Column and Vibracore Sampling. NSF-EAR 9625992 Equipment and Instrumentation – \$7,750.
- 1996 Gastaldo, R.A. Plant Taphonomic Character of Intermontane Carboniferous Floras in the Czech Republic. NSF-INT 9513189 NSF-International Programs Eastern Europe – \$23,563.
- 1991 Staub, J.R. and Gastaldo, R.A. COLLABORATIVE RESEARCH: A test of macrofloral and microfloral biofacies in a peat-accumulating delta, Sarawak, Malaysia. NSF-EAR 9111842 – \$209,135. (1992-1995)
- 1990 Gastaldo, R.A. Plant taphonomy & paleoecology of Eocene lignite-bearing strata in the Subhercynian basin, north Germany. Alexander von Humboldt-Stiftung Senior U.S. Research Scientist Award. (approx. \$85,000; 1991-1992)
- 1990 Ferguson, D.K. and R.A. Gastaldo. Evaluation of plant-bearing sediments as an accurate reflection of source vegetation. NATO Collaborative Research Grant – 204,00BF (\$6700.; 1991-1995).
- 1990 Gastaldo, R.A. Age assignment of the Erin Slate, Talladega Slate Belt, Clay County. National Science Foundation, Stratigraphy & Paleontology, Earth Sciences Section. NSF EAR 9019286 – \$32,209 (1990-1993).
- 1988 Gastaldo, R.A. Phytotaphonomy of Kerogen III precursors, Mahakam Delta, Kalimantan, Indonesia. ACS-Petroleum Research Fund, ACS-PRF 20829-AC8 Grant – \$26,850 (1988-1990).
- 1988 Gastaldo, R.A. Phytotaphonomy of hydrocarbon precursors, Mahakam Delta, Kalimantan. National Science Foundation, Stratigraphy & Paleontology, Earth Sciences Section – NSF EAR 8803609 \$60,516. (1988-1991)
- 1988 Savrda, C.E., R.A. Gastaldo, and D.T. King, Jr. Acquisition of a carbon determinator system for analysis of sedimentary organic carbon and carbonate. National Science Foundation, Instrumentation Equipment Grant, Earth Sciences Section. NSF EAR 8720560 – \$11,450.
- 1987 Gastaldo, R.A. ACS-PRF Summer Research Faculty Fellowship. American Chemical Society – \$4500.00
- 1987 Gastaldo, R.A. Palaeoclimates of Peat Accumulating Geographies. BHP-Utah International, Inc. – \$13,750.
- 1986 Gastaldo, R.A. Megafloral Paleontology and Paleoecology of Early Pennsylvanian Deltaic Systems in the Black Warrior Basin. National Science Foundation. NSF EAR 8618815 – \$85,000 (1986-1988)
- 1986 Gastaldo, R.A. Taphonomy of Plant Accumulating Crevasse Splay Sediments, Chacaloochee Bay, Mobile Delta, Alabama. Petroleum Research Fund, American Chemical Society, Type B – \$20,000. (1986-1988)
- 1985 Gastaldo, R.A. Land Plants - A Short Course. Petroleum Research Fund, American Chemical Society, on behalf of The Paleontological Society, Geological Society of America. Type SE – \$1700.
- 1984 Gastaldo, R.A. Phytotaphocoenoses and paleoecology of Early Pennsylvanian Barrier island/lagoonal complexes in the Warrior coal field, Alabama. NSF EAR 8407833 – \$38,100.
- 1981 Gastaldo, R.A. A Biostratigraphic Correlation Between the Brookwood Coal Group, Black Warrior Coal Basin (Pottsville Formation), Alabama and the Upper Namurian/Lower Westphalian of Northern Europe. Netherlands American Commission for Educational Exchange. – \$10,000. (1982)

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- 1979 Gastaldo, R.A. Floral Biostratigraphy of the Brookwood Coal Group (Pottsville) in the Warrior Basin, Alabama. The Petroleum Research Fund, American Chemical Society, Washington, D.C. – \$10,000 (1980-1981); 1981 Project SEED \$500.00; 1983 Page charges \$1400.
- 1979 Gastaldo, R.A. Morphological Variation and Species Delimitation in Upper Carboniferous Equisetalean Strobili. American Philosophical Grant-in-Aid of Research #1488 Johnson Fund – \$1500.

GRANTS PENDING

None

RECENT GRANTS NOT FUNDED

- 2017 Glasspool, I., and Gastaldo, R.A., The Timing and Evolution of Devonian Fire Systems and Their Implications for Atmospheric Oxygen Concentration: NSF EAR 1734699, \$182,251.
- 2014 Gastaldo, R.A., Characterization of dispersed terrestrial organic matter in continental depositional environments of the Karoo Basin, South Africa: American Chemical Society, Petroleum Research Fund, Undergraduate Research program (\$70 k).
- 2014 Gastaldo, R.A., Neveling, J., Geismann, J., Kamo, S.L., and Tabor, N., The Response of Terrestrial Ecosystems to the End-Permian Crisis: Karoo Basin, South Africa: National Geographic Committee for Research and Exploration 177753.
- 2013 Yang, W., Crowley, J., Gastaldo, R.A., Geissman, J., Hermann, A.D., and Tabor, N., ELT Collaborative Research: Terrestrial Permian to Triassic Earth-Life Transitions in NE Pangea: Insights into the Pace and Causes of the End-Permian Mass Extinction: NSF EAR 1338271
- 2011 Gastaldo, R.A., Terrestrial Age Constraints for the *Dicynodon* Assemblage Zone, South Africa: Implications for the Timing of the End-Permian Mass Extinction: NSF EAR 1123570 (\$157,770)
- 2011 Yang, W., Crowley, J., Gastaldo, R.A., Geissman, J., and Tabor, N., Collaborative Research (RUI): Dynamic Responses of Mid-Latitudinal Latest Carboniferous-Early Triassic Pangean Paleoenvironment, Paleoclimate, and Paleoecology, Bogda Mountains, China: NSF EAR 1148401
- 2010 Yang, W., Crowley, J., Gastaldo, R.A., Geissman, J., and Tabor, N., Collaborative Research: Dynamic responses of mid-latitudinal Early Permian-Early Triassic Pangean paleoenvironment, paleoclimatology, and paleoecology, Bogda Mountains, China: NSF EAR 1053375
- 2010 Gastaldo, R.A., and Looy, C.L., Testing the terrestrial Guadalupian extinction in the Karoo Basin, South Africa: NSF EAR 1052992.
- 2009 Yang, W., Crowley, J., Gastaldo, R.A., Geissman, J., and Tabor, N., Collaborative Research: Dynamic responses of mid-latitudinal Early Permian-Early Triassic Pangean paleoenvironment, paleoclimatology, and paleoecology, Bogda Mountains, NW China: NSF EAR 0958181.
- 2009 Gastaldo, R.A., and Looy, C.L., Testing the terrestrial Guadalupian extinction in the Karoo Basin, South Africa: NSF EAR 0958634.
- 2009 Gastaldo, R.A., Palynofacies and Organic Matter Characterization of Late Permian And Early Triassic Rift-Basin Lakes in the Bogda Mountains, NW China: ACS PRF RU 43752
- 2009 O'Brien, L., Bevier, C.R., Gastaldo, R.A., Taylor, S.R., and Thamattor, D.M., PRISM – Collaborative Strategies for the Recruitment and Retention of Lower Division Undergraduates in Mathematics and Science, NSF MPS/DMS 0927788
- 2008 Yang, W., Gastaldo, R.A., Geismann, J., and Tabor, N., Collaborative Research: Paleoclimate reconstruction of Early Permian-Early Triassic terrestrial records implications on the cause and rate of end-Permian terrestrial mass extinction Bogda Mountains, NW China : NSF EAR 0844230
- 2007 Yang, W., and Gastaldo, R.A., Lower Permian to Lower Triassic fluvial-lacustrine depositional systems and sequence stratigraphy, Bogda Mountains and Turpan-Hami and Eastern Junggar intermontane basins: American Chemical Society, Petroleum Research Fund ACS PRF AC
- 2006 Tabor, N., Yang, W., and Gastaldo, R.A., Paleoclimatology and Paleontology across the continental Permian-Triassic boundary strata of Xian Jiang province, northwest China: National Geographic, \$29500.
- 2006 Pfefferkorn, H.W., DiMichele, W.A., and Gastaldo, R.A., Collaborative Research: Model for the Reorganization of Terrestrial Plant Ecosystems During Global Warming in the Permian Icehouse to Hothouse Transition: NSF EAR 0617094

- 2003 Gastaldo, R.A., Plant Taphonomy of Terrestrial Ecosystems across the Permian-Triassic Boundary, Karoo Basin, South Africa: American Philosophical Society, Franklin Research Grants.
- 2003 Gastaldo, R.A., Taphonomic Character of Plant Fossils Assemblages at the Permian-Triassic Boundary, Karoo Basin, South Africa: Eppley Foundation for Research, Inc.
- 2001 Gastaldo, R.A., and Deike, R., An Innovative Program to Integrate Cutting Edge Research and K-12 Geoscience Education. NSF EAR 0122018
- 2001 Pfefferkorn, H.W., and Gastaldo, R.A., COLLABORATIVE RESEARCH: Long-term stability and rapid turnover in Carboniferous tropical floras: An intercontinental comparison. NSF EAR 0107043; 0106499
- 2000 Gastaldo, R.A., Paleontological Society Short Course entitled "Phanerozoic Terrestrial Ecosystems:" ACS PRF Type SE Grant submitted on behalf of the Paleontological Society.
- 2000 Churchill-Dickson, L., and Gastaldo, R.A., A Web-based Paleontological Digital Library and Associated Tutorials for the State of Maine. National Science Foundation, Geoscience Education. NSF 0002988

MANUSCRIPTS IN PREPARATION

- Geissman, J.W., Gastaldo, R.A., and Neveling, J., Paleomagnetism of the Bethulie Section, Free State, South Africa, with implications for the thermal history of the central Karoo Basin: Canadian Journal of Earth Sciences
- Gastaldo, R.A., Tabor, N.J., Neveling, J., Bañaga, H.R., Davis, D., Looy, C.V., Kamo, S.L., and Geissman, J.W., Latest Permian pCO₂ estimates from multi-proxy constrained South African continental records
- Gastaldo, R.A., *Genselia palusofolium* n. sp., a Middle Mississippian (Viséan) lyginopterid pteridosperm preserved in a coastal marsh setting, Hartselle Sandstone, Alabama
- Gastaldo, R.A., Gensel, P., Glasspool, I., Hinds, S.J., King, O.A., Park, A.F., Stimson, M.R., and Stonesifer, T., Mississippian seismicity reveals a new tree architecture during the lignophyte radiation: GEOLOGY

MANUSCRIPTS SUBMITTED (IN PRESS - accepted for publication; **bold** indicates undergraduate co-author; *bold italic s* indicates M.Sc. student co-authors)

- Gastaldo, R.A., and Bamford, M., The influence of time and taphonomy on the paleobotanical record of the Permian—Triassic transition of the Karoo Basin (and elsewhere): Journal of African Earth Sciences AES11557
- Rochín-Bañaga, H., Gastaldo, R.A., Davis, D.W., Neveling, J., Kamo, S.L., Looy, C.V., and Geissman, J.W., U-Pb dating of pedogenic calcite near the Permian—Triassic boundary, Karoo Basin: Geological Society of America Bulletin
- Gibling, M., Jia, R., Gastaldo, R.A., Neveling, J. and Rochín-Bañaga, H., Braided-river architecture of the Triassic Swartberg Member, Katberg Formation, South Africa: Assessing age, fluvial style and paleoclimate after the end-Permian extinction: Journal of Sedimentary Research

MANUSCRIPTS IN REVISION

- Cantor, B.M.**, Gastaldo, R.A., and O'Brien, L., Historical Records of Stomatal Indices in *Quercus* from the Southeastern U.S. and Their Implications for Reconstructing Atmospheric Carbon Dioxide in Deep Time: Acta Paleobotanica
- Pedentchouk, N., Gastaldo, R.A., and Staub, J.R. Dispersed Organic Matter of Holocene Deposits in the Rajang River Delta, Sarawak, Malaysia. I. Palynofacies Variation Within Siliciclastic Sediments and II. Spatial Variation of Palynofacies Assemblages Within Organic-Poor Siliciclastic Sediments. Sedimentary Geology.

PUBLICATIONS (**bold** indicates undergraduate co-author; *bold italic s* indicates graduate student co-author)

- 2023 Gastaldo, R.A., Wan, M., and Yang, W., The taphonomic character and occurrence of Upper Permian–Lower Triassic plant assemblages in the mid-paleolatitudes, Bogda Mountains, western China: PALAIOS, v. 38, p. 1-21. DOI: <http://dx.doi.org/10.2110/palo.2022.025>
- 2022 Glasspool, I.J., and Gastaldo, R.A., A baptism by fire: fossil charcoal from eastern Euramerica reveals the earliest (Homerian) terrestrial biota evolved in a flammable world: Geological Society of London doi: 10.1144/jgs2022-072

- 2022 Glasspool, I.J., and Gastaldo, R.A., Silurian wildfire proxies and atmospheric oxygen: *Geology*, v. 50, p. 1048-1052
doi: <https://doi.org/10.1130/G50193.1>
- 2022 Greb, S.F., DiMichele, W.A., Gastaldo, R.A., Eble, C.F., and Wing, S.L., 2022, Prehistoric Wetlands: *in* Mehner, T., and Kockner, K., Eds., *Encyclopedia of Inland Waters (Second Edition)*, Elsevier, v. 3, p. 23-32, ISBN 9780128220412, DOI:10.1016/B978-0-12-819166-8.00066-9.
- 2021 Gastaldo, R.A., Isozaki, Y., Kustatscher, E., Reisz, R., Shen, S.-Z., and Lucas, S., Permian Extinctions and Recovery: Advances and Insights: *Frontiers in Earth Science*: 23 September 2021.
<https://doi.org/10.3389/feart.2021.772688>
- 2021 Yang, W., Wan, M., Crowley, J.L., Wang, J., Luo X., Tabor, N.J. Angeilczyk, K.D., Gastaldo, R.A., Geissman, J.W., Liu, F., Roopnarine, P., and Sidor, C., Paleoenvironmental and Paleoclimatic Evolution and Cyclo- and Chrono-Stratigraphy of Upper Permian-Lower Triassic Fluvial-Lacustrine Deposits in Bogda Mountains, NW China – Implications for Diachronous Plant Evolution Across the Permian-Triassic Boundary: *Earth Science Reviews*, v. 222, November 2021, 103741
- 2021 Gastaldo, R.A., Neveling, J., Geissman, J.W., Kamo, S.L., and Looy, C.V., A Tale of Two Tweefonteins: What Physical Correlation, Geochronology, Magnetic Polarity Stratigraphy, and Palynology say about the end-Permian terrestrial extinction paradigm: *Geological Society of America Bulletin*, v. 133, (Open Access Article) <https://doi.org/10.1130/B35830.1/5345349/b35830.pdf>
- 2020 Gastaldo, R.A., Tabor, N.J., and Neveling, J., Trends in stable-isotopes and climate proxies from late Changhsingian ghost landscapes of the Karoo Basin, South Africa: *Frontiers in Earth Science*, v. 8, n. 567109
DOI:10.3389/fevo.2020.567109
- 2020 Gastaldo, R.A., Kus, K., Neveling, J., and Tabor, N., Calcic paleoVertisols in the upper *Daptocephalus* Assemblage Zone, Balfour Formation, Karoo Basin, South Africa: Implications for Late Permian Climate: *Journal of Sedimentary Research*, v. 90, p. 609-628. DOI: <http://dx.doi.org/10.2110/jsr.2020.32>
- 2020 Gastaldo, R.A., Kamo, S.L., Neveling, J., Geissman, J.W., Looy, C.V., and Martini, A.M., The *Lystrosaurus* Assemblage Zone, Karoo Basin, predates the end-Permian marine extinction: *Nature Communications*, v. 11, no. 1428 <https://doi.org/10.1038/s41467-020-15243-7> or <https://rdcu.be/b26a0>
- 2020 Martinetto, E. Tschopp, E., and Gastaldo, R.A., editors., *Nature Through Time*: Springer Nature Switzerland, Cham, Switzerland, 474 p. ISBN 978-3-030-35057-4.
- 2020 Martinetto, E. Tschopp, E., and Gastaldo, R.A., Preface, *in* Martinetto, E. Tschopp, E., and Gastaldo, R.A., eds., *Nature Through Time*: Springer Nature Switzerland, Cham, Switzerland, p. ix-xv. ISBN 978-3-030-35057-4.
- 2020 Gastaldo, R.A., Bamford, M., Calder, J., DiMichele, W.A., Ianuzzi, R., Jasper, A., Kerp, H., McLoughlin, S., Opluštil, S., Pfefferkorn, H.W., Roessler, R., and Wang, J., UNIT 12: The non-analog vegetation of the Late Paleozoic icehouse–hothouse and their coal-forming forested environments: *in* Martinetto, E. Tschopp, E., and Gastaldo, R.A., eds., *Nature Through Time*: Springer Nature Switzerland, Cham, Switzerland, p. 291-316. ISBN 978-3-030-35057-4.
- 2020 Gastaldo, R.A., Bamford, M., Calder, J., DiMichele, W.A., Ianuzzi, R., Jasper, A., Kerp, H., McLoughlin, S., Opluštil, S., Pfefferkorn, H.W., Roessler, R., and Wang, J., UNIT 13: The Coal Farms of the Late Paleozoic: *in* Martinetto, E. Tschopp, E., and Gastaldo, R.A., eds., *Nature Through Time*: Springer Nature Switzerland, Cham, Switzerland, p. 317-343 . ISBN 978-3-030-35057-4.
- 2020 Gensel, P., Glasspool, I., Gastaldo, R.A., Libertin, M., and Kvacke, J., UNIT 15: Back to the beginnings: The Silurian-Devonian as a time of major innovation in plants and their communities: *in* Martinetto, E. Tschopp, E., and Gastaldo, R.A., eds., *Nature Through Time*: Springer Nature Switzerland, Cham, Switzerland, p. 367-398. ISBN 978-3-030-35057-4.
- 2020 Gastaldo, R.A., and Neveling, J., Discussion of “Permian—Triassic vertebrate footprints from South Africa: Ichnotaxonomy, producers and biostratigraphy through two major faunal crises” by Marchetti, L., Klein, H., Buchwitz, M., Ronchi, A., Smith, R.M.H., DeKlerk, W.J., Sciscio, L., and Groenewald, G.H. (2019): *Gondwana Research*, v. 78, p. 375–378. <https://doi.org/10.1016/j.gr.2019.08.003>
- 2019 Gastaldo, R.A., Neveling, J., Geissman, J.W., and Looy, C.V., Testing the *Daptocephalus* and *Lystrosaurus* Assemblage Zones in a Lithostratigraphic, Magnetostratigraphic, and Palynological Framework in the Free State, South Africa: *PALAIOS*, v. 34, p. 542-561. DOI: <http://dx.doi.org/10.2110/palo.2019.019>
- 2019 Gastaldo, R.A., News & Views: Plants escaped an ancient mass extinction: *Nature Communications* v. 567, n 7746, p. 38-39.
- 2019 Gastaldo, R.A., Neveling, J., Geissman, J.W., and Li, J., A Multidisciplinary Approach to Review the Vertical and Lateral Facies Relationships of the Purported Vertebrate-defined Stratigraphic Interval at Bethulie, Karoo Basin, South Africa: *Earth Science Reviews*, v. 189, p. 220-243. doi: 10.1016/j.earscirev.2017.08.002

- 2018 Gastaldo, R.A., Neveling, J., Geissman, J.W., and Kamo, S.L., A Lithostratigraphic and Magnetostratigraphic Framework in a Geochronologic Context for a Purported Permian–Triassic Boundary Section at Old (West) Lootsberg Pass, Karoo Basin, South Africa: *Geological Society of America Bulletin*, v. 130, p. 1411-1438.
- 2017 Pfefferkorn, H.W., Gastaldo, R.A., and DiMichele, W.A., Impact of an icehouse climate interval on tropical vegetation and plant evolution: *Stratigraphy*, v. 14, p. 365-376.
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- Shosa, J.D., Gastaldo, R.A., and King, D.W., 2001, Integration of Research and Curriculum: The Belgrade Lakes Project: CUR Undergraduate Research Symposium.
- Lindley, C.F. '02,** and Gastaldo, R.A., 2001, Dispersed organic matter (Palynofacies) in coastal environments: An example from the Mobile-Tensaw River delta and bay, Alabama: Geological Society of America, Abstracts with Program, v. 33, no. 1, p. A28.
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- Tackaberry, W.A. '01,** Rueger, B.F., and Gastaldo, R.A., 2000, Local Environmental Perturbations as Evidenced by Sedimentological Analysis: Spittal Pond, Bermuda: Geological Society of America, Abstracts with Program, v. 33, no. 1, p. A24.
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- Tackaberry, W.A. '01,** Rueger, B.F., and Gastaldo, R.A., 2000, Sedimentology and Holocene history of Spittal Pond, Bermuda: Geological Society of America, Abstracts with Program, v. 32, no. 7, p. A178.
- Lindley, C.F. '02,** Gastaldo, R.A., and Pross, J., 2000, Palynofacies characterization of Holocene Bay sediments from the Mobile-Tensaw River system, Alabama: Geological Society of America, Abstracts with Program, v. 32, no. 7, p. A413.

SUMMARY OF SERVICE

Paleontology Society, Committee on Student Grant-in-Aid of Research - 2003
EPA Science to Achieve Results (STAR) Fellowships for Graduate Study Program - 1998
National Science Foundation Panel Member (NSF-EAR) - 1996-2000
National Science Foundation Panel Member (NSF-ILI) - 1997, solicited for 1998
National Science Foundation Panel Member (NSF SST) - 1979
National Science Foundation Panel Member (NSF EAPSI) - 2006-2007
Co-Editor, PALAIOS, 1996-2002
Associate Editor, PALAIOS, 1989-1996; 2002-present
Associate Editor, Geological Society of America Bulletin, 1993-1996
Editorial Board, Review of Palaeobotany and Palynology, 1993-2007
Editorial Board, Senckenbergiana Lethaea, 2004-present
Editorial Board, Journal of Taphonomy, 2003-present

Reviewer: Academic Press; Alabama Academy of Science; American Chemical Society, Petroleum Research Fund; American Journal of Botany; American Philosophical Society; Benjamin/Cummings Publishing Company; Botanical Gazette; Cambridge University Press; Charleston Museum Publications, Charleston, SC; Council for International Exchange of Scholars; Geobios; Geology; Geological Society of America, Bulletin; Geological Society of America, Special Papers; International Congress of Carboniferous Geology and Stratigraphy; International Journal of Coal Geology; Journal of Paleontology; Journal of Sedimentary Petrology; Kansas Geological Survey; Maritime Sediments and Atlantic Geology; The Mosasaur; National Science Foundation, International Exchange Programs; The National Research Council, U.K.; Natural Environmental Research Council, U.K.; Nature; National Science Foundation, Stratigraphy & Paleontology; National Science Foundation, Systematic Biology; Neues Jahrbuch für Geologie und Paläontologie, Abhandlungen; Palaeogeography, Palaeoclimatology, Palaeoecology; Palaeontographica Abt. B; PALAIOS; Paleobiology; Palynology; Paleontology Society Short Course Notes; Review of Palaeobotany & Palynology; Sedimentary Geology; Sigma Xi, National Research Honorary; Science; Smithsonian Scholarly Studies Program; Société Géologique de France; Springer-Verlag Publishing; W.C. Brown Company Publishers; PalSIRP;

Selected Societal Responsibilities

- Co-Chairman and Convener Symposium: Validity of "Ancient Earth" Data. Southeastern GSA, Florida State University, Tallahassee, 17 March 83.
- Field Trip Leader - Early Pennsylvanian plant fossils in northeast Alabama. American Fern Society Annual Meeting, 20 September 83.
- Convener and Co-Chairman Symposium, Carboniferous Paleontology, Paleoecology and Biostratigraphy, Southeast Section Paleontological Society Symposium, Lexington, KY. 5 April, 1984.
- Field Trip Organizer: Pre-Meeting Field Trip Paleobotanical Section, Botanical Society of America. Auburn University Continuing Education Program, 5-8 September, 1985.
- Convener and Co-Chairman Symposium, Plant Taphonomy: Organic Sedimentary Processes, AAPG-SEPM Meetings, Atlanta, 16 June 1986.
- Convener and Chairman, Fossil Land Plants: A Short Course, Paleontology Society Short Course, Geological Society of America Meetings, San Antonio, 9 November 1986.
- Invited Participant, Evolution of Terrestrial Ecosystems Workshop, USNM, Smithsonian Institution, 28-29 January, 1987.
- Invited Participant, Evolution of Terrestrial Ecosystems Workshop, Airlie House, Warrenton, VA., Smithsonian Institution, 15-19 May 1987.
- Co-chairman UNESCO International Geological Correlation Programme Project 216 Symposium, "Paleofloristic and paleoclimatic changes in the Cretaceous and Tertiary," Prague, Czechoslovakia, 28 August - 2 September 89.
- Field Trip Organizer: Post-Meeting Field Trip, Southeastern GSA, Tuscaloosa, AL, 7-8 April 90.
- Chairman PALEOZOIC PALEOBOTANY, Pan-European Paleobotanical Conference, Vienna, Austria - 19 September 91.
- Chairperson, Tertiary of central European basin, International Organization of Palaeobotany, Paris, France - 1 September 92.
- Field Trip Organizer: Pre-Meeting Field Trip Paleobotanical Section, Botanical Society of America. Knoxville, TN. August 1994.
- Council Member, SEPM May 1996-2002
- Field Trip Organizer, Pre-Meeting Field Trip International Palynological Conference, Houston, TX June 1996.
- Co-Chairman, Evolution of Terrestrial Vegetation and Taphonomy Session, International Organization of Palaeobotany, Santa Barbara, CA - 5 July 96.
- Developer & Writer, Module 9 – AGI's EarthWorks, National Middle School Curriculum
- Organizing Committee, Paleontology in the 21st Century, Senckenberg Museum, Frankfurt, Germany, August 1997.
- Co-Chair/Treasurer: Southeast Geological Society of America Meeting, Auburn, AL March 1997.
- Co-Chair and Organizer: Plant Taphonomy and Paleoclimates, Geological Society of America National Meeting Theme Session, Salt Lake City, UT, 23 October 97.
- Team Leader Unit VI – AGI's EarthComm, National High School Earth Science Curriculum 1998
- Developer & Writer, Unit VI Chapter 18 – AGI's EarthComm, National High School Earth Science Curriculum 1998
- Paleontological Society Council – Councillor Unrestricted 2002-2004
- Curriculum Developer – AGI's Concepts for Understanding Earth Science, National Middle School Earth Science Curriculum 2003-2004
- Co-Convener and Session Chair: Gastaldo, R.A., and DiMichele, W.A., Vegetational Response(s) to Critical Times in Earth History: VII International Organization of Palaeobotany Conference, Bariloche, Patagonia, 2004.
- Co-Convener and Session Chair: Gee, C., Gastaldo, R.A., and Ferguson, D., Plant Taphonomic Processes and the Interpretation of Fossil Assemblages. VII International Organization of Palaeobotany Conference, Bariloche, Patagonia, 2004.
- Co-Convener and Session Chair: Eble, C., Demchuk, T.D., Pfefferkorn H.W., and Gastaldo, R.A., "Ice House" / "Hothouse" – An Analysis of Late Paleozoic Floras and Their Response to Global Climate Change: GSA, Philadelphia, 2006.
- Co-Convener and Session Chair: Gee, C. and Gastaldo, R.A., Plant taphonomic processes: case studies in paleobotany and palynology, VIII IOPC Bonn, Germany 2008.
- Co-Convener and Session Chair: Gastaldo, R.A., DiMichele, W.A., and Montanez, I., GSA Topical Session - Permian and Triassic Terrestrial Biotic Responses to Global Perturbations, Houston, TX, 2008.

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Classroom lecturer and assistance to local and regional elementary, middle, and high schools, including Science Olympiad competitions.