

Alexandru Mihail Florian Tomescu, Ph.D.
Curriculum Vitae

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Academic Background

Ph.D., Biological Sciences – Environmental and Plant Biology, Ohio University, Athens, Ohio. 2004.
Advisor: Dr. Gar W. Rothwell.

Late Ordovician - Early Silurian terrestrial biotas of Virginia, Ohio, and Pennsylvania: an investigation into the early colonization of land

M.S., Geology (Paleobotany and Palynology), University of Bucharest, Romania. 1993 Advisor: Dr. Ovidiu Dragastan.

The palynology of Pliocene coal-bearing deposits of Oltenia (SW Romania)

Professional Experience and Appointments

2011-present – Associate Professor, Department of Biological Sciences, Humboldt State University, Arcata CA.

2005-2011 – Assistant Professor, Department of Biological Sciences, Humboldt State University, Arcata CA.

2005-2006 – Visiting Scholar (summer), Department of Geological Sciences, Indiana University, Bloomington IN.

1999-2004 – Graduate Teaching Assistant, Department of Environmental and Plant Biology, Ohio University, Athens OH.

1999-2003 – Scientific Imaging Facility technician, Ohio University, Athens OH.

1999 – Archeological field camp supervisor for the National Center for Pluridisciplinary Research, National History Museum of Romania.

1997-1999 – Research team leader, National Center for Pluridisciplinary Research, National History Museum of Romania.

1997-1998 – Adjunct lecturer, Department of Geology and Geophysics, University of Bucharest (Romania).

1996-1997 – Archeological field camp manager for the National Center for Pluridisciplinary Research, National History Museum of Romania.

1994 – Training in archeological palynology, Ministère de la Culture, Centre National de Préhistoire, Périgueux (France), 6 months.

1993-1999 – Research Scientist (Palynology, Geology), National History Museum of Romania.

1990 – Training in the Neogene stratigraphy of the Aquitanian Basin (SW France), Laboratoire de Recherches et Applications Géologiques, Université Bordeaux I, 4 weeks.

Academic Awards and Honors

- 2011 – McCrone Promising Faculty Scholar Award, Humboldt State University.
- 2003 – Proposal of Exceptional Merit, Geological Society of America Ross Research Award.
- 2002 – Ohio University Outstanding Doctoral Student Award, Graduate Student Senate, Ohio University, Athens OH.
- 2002 – Donald Clippinger Fellow, Ohio University, Athens OH.
- 2002 – Proposal of Exceptional Merit, Geological Society of America Graduate Student Research Grant.
- 2001 – Botanical Society of America Karling Graduate Student Research Award.
- 2000 – Inducted to Sigma Xi, The Scientific Research Society.
- 1989 – Emil Racovita Prize for best presented paper in speleology (co-authored), Emil Racovita Institute of Speleology (Romania).

Grants and Research Contracts

1. **Tomescu, A.M.F.** 2013 “Climate-vegetation interactions in a warming world: establishing a long term collaboration on the Early Permian floras of Patagonia (Argentina)”. U.S. National Science Foundation IIA-1322504. \$ 70,482.
2. **Tomescu, A.M.F.** 2013 “Early Permian plants of Argentine Patagonia: A window into the evolution of modern floras in a warming world, 290-280 million years ago”. American Philosophical Society. \$ 4,800.
3. **Tomescu, A.M.F.** 2011 “The rooting systems of early vascular plants in the Early Devonian Beartooth Butte Formation (Wyoming) – a graduate and undergraduate research opportunity”. Humboldt State University Office of Research. \$ 4,950.
4. **Tomescu, A.M.F.** 2010 “Early Devonian floras of western North America (Wyoming & Arizona)”. American Philosophical Society. \$ 4,000.
5. **Tomescu, A.M.F.** 2010 “Devonian floras of western North America (Wyoming & Arizona)”. Humboldt State University Emeriti and Retired Faculty Association. \$ 500.
6. **Tomescu, A.M.F.** 2008 “The origin and early evolution of land plants – a combined paleobiological-experimental study of fossils from the Ordovician-Silurian of the Appalachian basin and the Devonian of Wyoming”. Humboldt State University Sponsored Programs Foundation & Office of Research, Graduate Studies, and International Programs. \$ 11,080.
7. **Tomescu, A.M.F.** 2006 “Geochemistry of the oldest terrestrial macrophytes and associated rocks (Ordovician-Silurian of the Appalachian Basin, USA)”. Humboldt State University Sponsored Programs Foundation. \$ 1,250.
8. **Tomescu, A.M.F.** 2005 “Exploring the biotic diversity of the Clarno Chert (Eocene of Oregon) – a poorly studied plant fossil locality with potential”. Humboldt State University Sponsored Programs Foundation. \$ 1,100.
9. **Tomescu, A.M.F.** 2004 “The earliest freshwater trace fossils and their depositional environment in the Early Silurian (Llandoveryian) lower Massanutten Sandstone of Virginia”. American Association of Petroleum Geologists W. David Wiman Memorial Grant. \$ 1,000.
10. **Tomescu, A.M.F.** 2004 “The earliest freshwater trace fossils: well-developed stream communities and continental ecosystem interactions at the beginning of the Silurian (lower Massanutten Sandstone, Llandoveryian, Virginia)”. Geological Society of America Graduate Student Research Grant. \$ 800.
11. **Tomescu, A.M.F.** 2004 “Interactions between freshwater and terrestrial ecosystems in an early stage of the colonization of land”. Paleontological Society Stephen J. Gould Student Grant. \$ 500.

12. Rothwell, G.W. and **A.M.F. Tomescu** 2003 “Structure and systematics of the earliest terrestrial groundcover”. National Science Foundation Doctoral Dissertation Improvement Grant DEB-0308806. \$ 11,630.
13. **Tomescu, A.M.F.** 2003 “Environments of the early terrestrial biota in the Massanutten Sandstone (Early Silurian, Virginia)”. Sigma Xi Grant-in-Aid of Research. \$ 500.
14. **Tomescu, A.M.F.** 2003 “Depositional environments of the earliest megafossils in continental deposits - the Ashgillian (Late Ordovician) Oswego Sandstone of Pennsylvania”. Geological Society of America Ross Research Award, Proposal of Exceptional Merit. \$ 1,300.
15. **Tomescu, A.M.F.** 2003 “Systematic affinities of early terrestrial organisms (Late Ordovician-Early Silurian) from eastern North America”. The Systematics Association (London). \$ 1,360.
16. **Tomescu, A.M.F.** 2003 “The Late Ordovician (Ashgillian) biota of the Oswego Sandstone of Pennsylvania: earliest macrofossils in non-marine deposits”. Paleontological Society Stephen J. Gould Student Grant-in-Aid. \$ 500.
17. **Tomescu, A.M.F.** 2003 “Characterizing the earliest terrestrial organisms in the 445 million year old Oswego Formation (Pennsylvania)”. John Houk Memorial Research Grant, Ohio University. \$ 400.
18. **Tomescu, A.M.F.** 2003 “Early terrestrial biota of Ohio”. Ohio Biological Survey. \$ 250.
19. **Tomescu, A.M.F.** 2002 “Earliest evidence for well developed terrestrial groundcover and atmospheric oxygen levels that could support wildfire”. Geological Society of America Graduate Student Research Grant, Proposal of Exceptional Merit. \$ 1,100.
20. **Tomescu, A.M.F.** 2002 “Earliest evidence for well developed terrestrial vegetation and high oxygen levels – the 440 million year old Oswego Sandstone (Pennsylvania)”. John Houk Memorial Research Grant, Ohio University. \$ 750.
21. **Tomescu, A.M.F.** 2002 “In situ land plant fossils in the Early Silurian (Llandoveryian) Massanutten Sandstone of Virginia”. Paleontological Society Grant-in-Aid. \$ 500
22. **Tomescu, A.M.F.** 2002 “Characterizing an early terrestrial biota from the Early Silurian (Llandoveryian) Massanutten Sandstone of Virginia”. Sigma Xi Grant-in-Aid of Research. \$ 300
23. **Tomescu, A.M.F.** 2001 “In situ preserved land plant fossils in the Early Silurian (Llandoveryian) Massanutten Sandstone of Virginia”. Botanical Society of America Karling Graduate Student Research Award. \$ 500.
24. **Tomescu, A.M.F.** 2001 “In situ preserved land plant fossils in the Early Silurian (Llandoveryian) Massanutten Sandstone of Virginia”. Geological Society of America Graduate Student Research Grant. \$ 850.
25. **Tomescu, A.M.F.** 2001 “The earliest plants to live on land – testing for *in situ* occurrence in the 430 million year old Massanutten Sandstone (Virginia)”. John Houk Memorial Research Grant, Ohio University. \$ 750.
26. **Tomescu, A.M.F.** 1994 Visiting Scientist fellowship for studies in archeological palynology. Ministère de la Culture (France). \$ 9,500.
27. **Tomescu, A.M.F.** 1990 Visiting Student fellowship for studies in the geology and stratigraphy of the Aquitanian. Laboratoire de Recherches et Applications Géologiques, Université Bordeaux I (France). \$ 1,000.

Publications (** student co-author)

1. Steenbock, C.M.** and **A.M.F. Tomescu**. 2013. Resurrecting *Sphondylophyton* as a rhodophyte alga from the Early Devonian. *International Journal of Plant Sciences* 174, 1171-1181.
2. Hoffman, L.A.** and **A.M.F. Tomescu**. 2013. An early origin of secondary growth: *Franhueberia gerriennei* gen. et sp. nov. from the Lower Devonian of Gaspé (Quebec, Canada). *American Journal of Botany* 100, 754-763.
3. Bronson, A.W.**, A.A. Klymiuk**, R.A. Stockey, and **A.M.F. Tomescu**. 2013. A perithecial sordariomycete (Ascomycota, Diaporthales) from the Early Cretaceous of Vancouver Island, British Columbia (Canada). *International Journal of Plant Sciences* 174, 278-292. DOI: 10.1086/668227
4. Matsunaga, K.K.S.**, R.A. Stockey, and **A.M.F. Tomescu**. 2013. *Honeggeriella complexa* gen. et sp. nov., a heteromerous lichen from the Early Cretaceous of Vancouver Island (British Columbia, Canada). *American Journal of Botany* 100, 450-459. DOI: 10.3732/ajb.1200470
5. Zatoń, M., O. Vinn, and **A.M.F. Tomescu**. 2012. Invasion of freshwater and variable marginal marine habitats by microconchid tube worms – an evolutionary perspective. *Geobios* 45, 603-610.
6. Caruso, J.A.** and **A.M.F. Tomescu**. 2012. Microconchid encrusters colonizing land plants: the earliest North American record from the Early Devonian of Wyoming. *Lethaia* 45, 490-494.
7. Steenbock, C.M.**, R.A. Stockey, G. Beard, and **A.M.F. Tomescu**. 2011. A new family of leafy liverworts from the middle Eocene of Vancouver Island, British Columbia, Canada. *American Journal of Botany* 98, 998-1006.
8. **Tomescu, A.M.F.** 2011. The sporophytes of seed-free vascular plants – major vegetative developmental features and molecular genetic pathways, p. 67-94. In Fernández, H., A. Kumar, and M.A. Revilla (eds.) *Working with ferns: issues and applications*. Springer, New York.
9. **Tomescu, A.M.F.**, R.W. Tate**, N.G. Mack**, and V.J. Calder**. 2010. Simulating fossilization to resolve the taxonomic affinities of thalloid fossils in Early Silurian (*ca.* 425 Ma) terrestrial assemblages. *Bibliotheca Lichenologica* 105: 183–189. *Biology of Lichens – Symbiosis, Ecology, Environmental Monitoring, Systematics, Cyber Applications*. Nash T.H. III et al. (eds.). J. Cramer in der Gebrüder Borntraeger Verlagsbuchhandlung, Stuttgart.
10. Oldham, A.R.**, S.C. Sillett, **A.M.F. Tomescu**, and G.W. Koch. 2010. The hydrostatic gradient, not light availability, drives height-related variation in *Sequoia sempervirens* (Cupressaceae) leaf anatomy. *American Journal of Botany* 97, 1087-1097.
11. **Tomescu, A.M.F.**, L.M. Pratt, G.W. Rothwell, P.K. Strother, and G.C. Nadon. 2009. Carbon isotopes support the presence of extensive land floras pre-dating the origin of vascular plants. *Palaeogeography, Palaeoclimatology, Palaeoecology* 283, 46-59.
12. **Tomescu, A.M.F.**, G.W. Rothwell, and R. Honegger. 2009. A new genus and species of filamentous microfossil of cyanobacterial affinity from Early Silurian fluvial environments (lower Massanutten Sandstone, Virginia, USA). *Botanical Journal of the Linnean Society* 160, 284-289.
13. **Tomescu, A.M.F.** 2009. Megaphylls, microphylls and the evolution of leaf development. *Trends in Plant Science* 14 (1), 5-12. doi:10.1016/j.tplants.2008.10.008
14. **Tomescu, A.M.F.**, R. Honegger, and G.W. Rothwell. 2008. Earliest fossil record of bacterial-cyanobacterial mat consortia: the early Silurian Passage Creek biota (440 Ma, Virginia, USA). *Geobiology* 6, 120-124.
15. **Tomescu, A.M.F.**, G.W. Rothwell, and M.L. Trivett. 2008. Reiterative growth in the complex adaptive architecture of the Paleozoic (Pennsylvanian) filiclean fern *Kaplanopteris clavata*. *Plant Systematics and Evolution* 270, 209-216.
16. **Tomescu, A.M.F.** 2008. The endodermis: a horsetail's tale. *New Phytologist* 177 (2), 291-295.
17. Towill, L., J.K. Williams, **A. Tomescu**, and T. Sneider-Leiby. 2008. Laboratory manual for Berg's Introductory Botany, second edition. Thomson Brooks/Cole. 143 pp.

18. **Tomescu A.M.F.** 2007. On divides. *Taxon* 56, 289-291.
19. **Tomescu, A.M.F.** and G.W. Rothwell. 2006. Wetlands before tracheophytes: thalloid terrestrial communities of the Early Silurian Passage Creek biota (Virginia), p. 41-56. In Greb, S.F. and W.A. DiMichele (eds.) *Wetlands through time*. Geological Society of America Special Paper 399.
20. **Tomescu A.M.F.**, G.W. Rothwell, and R. Honegger. 2006. Cyanobacterial macrophytes in an Early Silurian (Llandovery) continental biota: Passage Creek, lower Massanutten Sandstone, Virginia, USA. *Lethaia* 39, 329-338.
21. **Tomescu, A.M.F.**, G.W. Rothwell, and M.L. Trivett. 2006. Kaplanopteridaceae fam. nov., additional diversity in the initial radiation of filicalean ferns. *International Journal of Plant Sciences* 167, 615-630.
22. **Tomescu A.M.F.** 2006. Comment on ‘Something on the side: axillary meristems and plant development’ by Tom Bennett and Ottoline Leyser. *Plant Molecular Biology* 62, 481-482.
23. Haita, C and **A.M.F. Tomescu**. 2006. Petrography of lithic artifacts discovered at Bordusani-Popina (Romania) in the 1995-1997 campaigns. (in Romanian). *Archeological Research (Cercetări Arheologice, Bucharest)* 13, 409-412.
24. **Tomescu A.M.F.** 2005. Probing the seasonality signal in pollen spectra of Eneolithic coprolites (Hârsova-tell, Constanta County, southeast Romania). *Culture and Civilization at the Lower Danube (Cultura si Civilizatie la Dunarea de Jos, Calarasi, Romania)* 22, 207-221.
25. **Tomescu A.M.F.** 2005. Selective pollen destruction in archeological sediments at Gradistea Coslogeni (Calarasi County, Romania). *Studies in Prehistory (Studii de Preistorie, Bucharest)* 2, 181-186.
26. **Tomescu M.**, N. Ticleanu, and L. Stoian. 2004. La palynologie des depots Romaniens du Bassin Dacique (en Roumanie). *Chronostratigraphie und Neostatotypen. Neogene der Zentrale Paratethys 10. PL₂ Romanien*. Romanian Academy of Sciences Publishing House.
27. **Tomescu, A.M.F.**, V. Radu, and D. Moise. 2003. High resolution stratigraphic distribution of coprolites within Eneolithic middens, a case study: Hârsova-tell (Constanta County, southeast Romania). *Environmental Archaeology* 8: 97-109.
28. Popovici, D., A. Balasescu, C. Haita, V. Radu, **A.M.F. Tomescu**, and I. Tomescu. 2002. *Pluridisciplinary archeological research. Concepts, methods and techniques (in Romanian)*. Cetatea de Scaun Publishing House. Targoviste, Romania. 78 pp.
29. **Tomescu, A.M.F.**, G.W. Rothwell, and G. Mapes. 2001. *Lyginopteris royalii* sp. nov. from the Upper Mississippian of North America. *Review of Paleobotany and Palynology* 116: 159-173.
30. **Tomescu, A.M.F.** 2001. Palynological investigations: preliminary results. In: Bailey, D.W., R. Andreescu, S. Mills, and S. Trick (eds.). *Southern Romania Archaeological Project. Second preliminary report*. Cardiff Studies in Archaeology Specialist Report 20: 99-113.
31. **Tomescu, A.M.F.** 2000. Evaluation of Holocene pollen records from the Romanian Plain. *Review of Palaeobotany and Palynology* 109: 219-233.
32. **Tomescu, M.** 2000. Les coprolithes de l’accumulation de rejets domestiques C521 (Hârsova–tell, dep. de Constanta, Roumanie). *Problematique generale et implications de leur distribution*. *Archeological Research (Cercetări Arheologice, Bucharest)* 11(1): 56-65.
33. **Tomescu, M.** 2000. The Holocene: chronology and climate (in Romanian). *Archeological Research (Cercetări Arheologice, Bucharest)* 11(1): 235-270.
34. **Tomescu, M.** 2000. Factors influencing the structure of sporo–pollinic spectra (in Romanian). *Archeological Research (Cercetări Arheologice, Bucharest)* 11(2): 545-576.
35. **Tomescu, M.** 1999. Palynological investigations in the Teleorman River Valley. In: Bailey, D.W., R. Andreescu, and S. Mills (eds.). *Southern Romania Archaeological Project*. Cardiff Studies in Archaeology Specialist Report 14: 25-33.

36. **Tomescu, M.** and C. Haită. 1998. Preliminary results on the petrography of the lithics in the Gumelnita settlement (in Romanian). In: Marinescu-Bâlcu, S. et al.. Santierul arheologic Bucșani (jud.Giurgiu, Romania). Raport preliminar. Campania 1998. Bulletin of the “Teohari Antonescu” Museum (Giurgiu, Romania) 2–4: 103-106.
37. **Tomescu, M.** 1997. Palynology. In: Marinescu-Bâlcu S. et al.. Archaeological researches at Bordusani–Popină (Ialomita County, Romania). Preliminary report 1993–1994. Archeological Research (Cercetări Arheologice, Bucharest) 10: 128–131.
38. **Tomescu, M.** and C. Haită. 1997. Lithic resources. In: Marinescu-Bâlcu S. et al.. Archaeological researches at Bordusani–Popină (Ialomita County, Romania). Preliminary report 1993–1994. Archeological Research (Cercetări Arheologice, Bucharest) 10: 132–136.
39. **Tomescu, A.** and M. Cărciumaru. 1994. Palynology: applications in archeology (in Romanian). National History Museum of Romania. 55 pp., 7 fig.

Manuscripts Submitted or in Preparation (student co-author)**

1. **Tomescu, A.M.F.**, S.E. Wyatt, M. Hasebe, and G.W. Rothwell. Early evolution of the vascular body plan – the missing mechanisms. *Current Opinion in Plant Biology*. (*invited manuscript, in review*)
2. Nadon, G.C., **A.M.F. Tomescu**, L.M. Pratt, and G.W. Rothwell. Differentiating among depositional environments with C/S data: an example from the Late Ordovician, south-central Pennsylvania, USA. *Palaeogeography, Palaeoclimatology, Palaeoecology*. (*in review*)
3. Matsunaga, K.K.S.** , J.A. Caruso** , H. Barrett-Watson** , R. Dilley** , and **A.M.F. Tomescu**. Thalloid gametophytes of hepatic affinities from the Early Devonian of Wyoming. *Target journal: International Journal of Plant Sciences*.
4. Strayer, S.L.** , A.E. Thran** , and **A.M.F. Tomescu**. The sporangia and spores of *Psilophyton* from the Early Devonian of Gaspé Bay, Canada. *Target journal: American Journal of Botany*.
5. Matsunaga, K.** , B.L. Stewart** , and **A.M.F. Tomescu**. The evolution of endodermis development in euphyllophytes. *Target journal: Palaeontology*.
6. Dilley, R.** and **A.M.F. Tomescu**. A reappraisal of fossil thalloid bryophyte systematics. *Target journal: Taxon*.
7. **Tomescu, A.M.F.** The evolution of roots. *Target journal: New Phytologist*.
8. **Tomescu, A.M.F.** The land plant body plan – tempo and mode of evolution. *Target journal: Trends in Ecology and Evolution*.
9. **Tomescu, A.M.F.** Experiments simulating fossilization provide diagnostic criteria for identification of eukaryotic groups in terrestrial compression floras. *Target journal: Review of Palaeobotany and Palynology*.
10. **Tomescu, A.M.F.** The origin of complex life on land: updating the paradigms. *Target journal: Trends in Ecology and Evolution*.

Professional Presentations (* with published abstract; ** student co-author)

1. **Tomescu, A.M.F.** 2013. Revisiting root evolution. Botanical Society of America 108th Annual Meeting, New Orleans, LA*.
2. Bippus, A.C.** , G.W.K. Shelton** , R.A. Stockey, G.W. Rothwell, and **A.M.F. Tomescu**. 2013. A polytrichaceous moss with gemmae from the Early Cretaceous of Vancouver Island (Canada). Botanical Society of America 108th Annual Meeting, New Orleans, LA*.
3. Shelton, G.W.K.** , G.W. Rothwell, R.A. Stockey, and **A.M.F. Tomescu**. 2013. A second tricostate moss from the Early Cretaceous of Vancouver Island, British Columbia. Botanical Society of America 108th Annual Meeting, New Orleans, LA*.

4. Matsunaga, K.K.S.** and **A.M.F. Tomescu**. 2013. Early Devonian *Drepanophycus* from the Beartooth Butte Formation of Wyoming. Botanical Society of America 108th Annual Meeting, New Orleans, LA*.
5. Unger, C.R.** and **A.M.F. Tomescu**. 2013. Reappraising the Early Cretaceous permineralized flora of the Chickabally Mudstone (Budden Canyon Formation, Baramian-Aptian, California). Botanical Society of America 108th Annual Meeting, New Orleans, LA*.
6. Burnett, J.K.** and **A.M.F. Tomescu**. 2013. Pinaceous wood from the Early Cretaceous of California (Lower Chickabally Member, Budden Canyon Formation, Baramian - early Aptian). Botanical Society of America 108th Annual Meeting, New Orleans, LA*.
7. **Tomescu, A.M.F.**, C.M. Steenbock**, M.J. Friedman**, and R.A. Stockey. 2012. The Early Cretaceous Apple Bay flora of Vancouver Island: a hotspot of fossil bryophyte diversity. Botanical Society of America 107th Annual Meeting, Columbus, OH*.
8. Bronson, A.W.**, A.A. Klymiuk**, R.A. Stockey, and **A.M.F. Tomescu**. 2012. A perithecial sordariomycete (Ascomycota) of diaporthean affinity from the Early Cretaceous of Vancouver Island, British Columbia (Canada). Botanical Society of America 107th Annual Meeting, Columbus, OH*.
9. Strayer, S.L.** and **A.M.F. Tomescu**. 2012. The spores of *Psilophyton dawsonii* from the Early Devonian of Quebec (Canada). Botanical Society of America 107th Annual Meeting, Columbus, OH*.
10. Bippus, A.C.**, M.J. Friedman**, R.A. Stockey, and **A.M.F. Tomescu**. 2012. Thalloid fossils comparable to bryophyte and fern gametophytes from the Lower Cretaceous (Valanginian-Hauterivian) of Vancouver Island, British Columbia. Botanical Society of America 107th Annual Meeting, Columbus, OH*.
11. Unger, C.R.**, A. Ortiz**, R.A. Stockey, and **A.M.F. Tomescu**. 2012. An anatomically preserved leucobryaceous moss from the Early Cretaceous (Valanginian-Hauterivian) of Vancouver Island, British Columbia, Canada. Botanical Society of America 107th Annual Meeting, Columbus, OH*.
12. Matsunaga, K.K.S.**, R.A. Stockey, and **A.M.F. Tomescu**. 2012. A chlorolichen with modern thallus organization from the Early Cretaceous (Valanginian-Hauterivian) of Vancouver Island (British Columbia, Canada). Botanical Society of America 107th Annual Meeting, Columbus, OH*.
13. Shelton, G.W.K.**, R.A. Stockey, and **A.M.F. Tomescu**. 2012. An anatomically preserved moss with a novel combination of characters from the Early Cretaceous (Hauterivian-Valanginian) of Vancouver Island, British Columbia. Botanical Society of America 107th Annual Meeting, Columbus, OH*.
14. Nadon, G.C., **A.M.F. Tomescu**, L.M. Pratt, and G.W. Rothwell. 2012. Extending the C/S technique for differentiating paleoenvironments using a statistical approach. Geological Society of America Annual Meeting, Charlotte, NC*.
15. **Tomescu, A.M.F.** 2011. Recognition, reconstruction, and characterization of ancestral filiclean ferns (invited talk in “Innovations in organismal botany - a tribute to the pioneering studies of Donald A. Eggert” symposium). Botanical Society of America 106th Annual Meeting, St. Louis, MO*.
16. Hoffman, L.** and **A.M.F. Tomescu**. 2011. An early origin of secondary growth in the Early Devonian of Gaspe. Botanical Society of America 106th Annual Meeting, St. Louis, MO*.
17. Matsunaga, K.K.S.**, M.R. Mesler, and **A.M.F. Tomescu**. 2011. Nectary structure of *Scoliopus bigelovii* (Lilicaceae). Botanical Society of America 106th Annual Meeting, St. Louis, MO*.
18. Caruso, J.A.**, H. Barrett-Watson**, and **A.M.F. Tomescu**. 2011. New gametophytes from the Early Devonian Beartooth Butte Formation (Wyoming). Botanical Society of America 106th Annual Meeting, St. Louis, MO*.

19. **Tomescu, A.M.F.**, C.M. Steenbock**, and J.A. Caruso**. 2010. Environments of the Early Devonian Beartooth Butte Formation floras (Wyoming) and the evolution of rooting systems. Botanical Society of America 105th Annual Meeting, Providence, RI*.
20. Steenbock, C.M.** and **A.M.F. Tomescu**. 2010. Resurrecting *Sphondylophyton*, an Early Devonian taxon with whorled appendages. Botanical Society of America 105th Annual Meeting, Providence, RI*.
21. Caruso, J.A.**, M.A. Dattola**, B.N. Nauman**, and **A.M.F. Tomescu**. 2009. New observations on the Early Devonian floras of the Beartooth Butte Formation (Wyoming). Geological Society of America Annual Meeting, Portland, OR*.
22. **Tomescu, A.M.F.**, D.M. Chisholm-Sims**, and A.E. Thran**. 2009. Experiments simulating fossilization provide clues to the taxonomic affinities of pre-tracheophytic terrestrial fossils. Botanical Society of America 104th Annual Meeting, Snowbird, UT*.
23. Stewart, B.L.** and **A.M.F. Tomescu**. 2009. Phylogenetic patterns of endodermis development across vascular plant lineages. Botanical Society of America 104th Annual Meeting, Snowbird, UT*.
24. Dattola, M.A.**, J.A. Caruso**, B.N. Nauman**, and **A.M.F. Tomescu**. 2009. Additional diversity in Early Devonian floras of the Beartooth Butte Formation (Wyoming). Botanical Society of America 104th Annual Meeting, Snowbird, UT*.
25. Steenbock, C.M.**, R.A. Stockey, G. Beard, and **A.M.F. Tomescu**. 2009. Anatomically preserved fossil moss gametophytes from the Eocene of Vancouver Island, British Columbia, Canada. Botanical Society of America 104th Annual Meeting, Snowbird, UT*.
26. **Tomescu, A.M.F.** 2008. Microphylls, megaphylls, and the evolution of leaf development. Botanical Society of America 103rd Annual Meeting, Vancouver, BC, Canada*.
27. Henderson, L.T.**, A.R. Oldham**, S.C. Sillett, and **A.M.F. Tomescu**. 2008. Age-related anatomical variation in coast redwood (*Sequoia sempervirens*) leaves. Botanical Society of America 103rd Annual Meeting, Vancouver, BC, Canada*.
28. **Tomescu, A.M.F.** 2008. Lichen and bryophyte signatures in 450-420 million year old biological soil crust-like fossil associations. International Association of Lichenologists – American Bryophyte and Lichen Society joint meeting, Pacific Grove, CA*.
29. **Tomescu, A.M.F.**, L.M. Pratt, and G.W. Rothwell. 2007. Terrestrial stable carbon isotope signatures in Ordovician-Silurian (455-420 Ma) compression biotas of the Appalachians. Botanical Society of America 102nd Annual Meeting, Chicago, IL*.
30. Mack, N.G.**, R.W. Tate**, S.R. Lindquist**, V.J. Calder**, and **A.M.F. Tomescu**. 2007. Searching for structural analogues of early Paleozoic continental thalloid fossils – a simple experiment simulating compression fossilization in living organisms. Botanical Society of America 102nd Annual Meeting, Chicago, IL*.
31. **Tomescu, A.M.F.** and G.W. Rothwell. 2006. Early land plants: the fossil record as independent test for hypotheses of morphological evolution. Botanical Society of America 101st Annual Meeting, Chico, CA*.
32. **Tomescu, A.M.F.**, L.M. Pratt, and G.W. Rothwell. 2006. Early Paleozoic terrestrial biotas of the Appalachians: insights from geochemical and isotopic studies. Botanical Society of America 101st Annual Meeting, Chico, CA*.
33. Tate, R.W.** and **A.M.F. Tomescu**. 2006. Plant fossil diversity in the Late Eocene Clarno Chert of Oregon. Botanical Society of America 101st Annual Meeting, Chico, CA*.
34. McDonald, S.** and **A.M.F. Tomescu**. 2006. Morphology of Late Ordovician (Ashgillian) compression macrofossils from Conococheague Mountain (Pennsylvania): a window into early continental biotas. Botanical Society of America 101st Annual Meeting, Chico, CA*.

35. **Tomescu, A.M.F.** and G.W. Rothwell. 2005. Reiteration – the fern perspective. Botanical Society of America 100th Annual Meeting, Austin, TX*.
36. **Tomescu, A.M.F.** and G.W. Rothwell. 2005. Bacterial microfossils within a macrophytic cyanobacterial colony from the Passage Creek biota (Early Silurian, Virginia, USA). Botanical Society of America 100th Annual Meeting, Austin, TX*.
37. **Tomescu, A.M.F.**, G.W. Rothwell, and M.L. Trivett. 2004. Reconstructing a stem-group filicalean fern with reiterative indeterminate growth of the fronds. Botanical Society of America 99th Annual Meeting, Snowbird, UT*.
38. **Tomescu, A.M.F.** and G.W. Rothwell. 2004. Probing the systematic affinities of early terrestrial organisms in the Passage Creek biota (Lower Silurian, Virginia). Botanical Society of America 99th Annual Meeting, Snowbird, UT*.
39. **Tomescu, A.M.F.**, G.W. Rothwell, and R. Honegger. 2004. Cyanobacteria in Early Silurian continental deposits. Cyanobacterial fossils of the Early Silurian Passage Creek biota (Virginia). Botanical Society of America 99th Annual Meeting, Snowbird, UT*.
40. **Tomescu, A.M.F.** and G.W. Rothwell. 2004. First steps on land – organismal evolution in early terrestrial biotas. 7th International Organization of Paleobotany Conference, Bariloche, Argentina*.
41. Rothwell, G.W. and **A.M.F. Tomescu**. 2004. Early evolution of terrestrial biotas, an overview. 7th International Organization of Paleobotany Conference, Bariloche, Argentina*.
42. **Tomescu, A.M.F.**, G.W. Rothwell, and R. Honegger. 2004. Cyanobacteria in Early Silurian continental deposits. 21st Annual Midcontinental Paleobotanical Colloquium, Norman, OK*.
43. **Tomescu, A.M.F.**, G.W. Rothwell, and G.C. Nadon. 2003. Earliest communities of complex terrestrial organisms: structurally simple and systematically diverse. Geological Society of America Annual Meeting, Seattle, WA*.
44. **Tomescu, A.M.F.** and G.W. Rothwell. 2003. The Early Silurian Massanutten Sandstone of Virginia: an updated perspective on early terrestrial biotas. Botanical Society of America 98th Annual Meeting, Mobile, AL*.
45. **Tomescu, A.M.F.** and G.W. Rothwell. 2003. The Passage Creek biota (Virginia): a window on Early Silurian terrestrial communities. 20th Annual Midcontinental Paleobotanical Colloquium, Chicago, IL.
46. **Tomescu, A.M.F.** and G.W. Rothwell. 2002. Evidence for pre-tracheophyte terrestrial communities from the Early Silurian of Virginia. Geological Society of America Annual Meeting, Denver, CO*.
47. **Tomescu, A.M.F.** and G.W. Rothwell. 2002. Meso- and microfossils of putative terrestrial organisms of the Early Silurian (Llandoveryan) carbonate shorelines in Ohio, USA. 6th European Paleobotany-Palynology Conference, Athens, Greece*.
48. **Tomescu, A.M.F.** and G.W. Rothwell. 2002. Oldest evidence for pre-tracheophyte terrestrial groundcover; lichen-like organisms from the Lower Silurian of Virginia. Poster. Botanical Society of America 97th Annual Meeting, Madison, WI*.
49. **Tomescu, A.M.F.** and G.W. Rothwell. 2002. Evidence for a terrestrial biota in Lower Silurian (Llandoveryan) carbonate shoreline deposits of Ohio. Botanical Society of America 97th Annual Meeting, Madison, WI*.
50. **Tomescu, A.M.F.** 2002. The earliest terrestrial megafossil assemblage; thalloid organisms of putative lichen affinity in the Early Silurian (Llandoveryan) Tuscarora Formation of Virginia. Poster. SEA/Houk poster session, Ohio University.
51. **Tomescu, A.M.F.** and G.W. Rothwell. 2002. Evidence for a terrestrial biota in the Lower Silurian of Ohio. 19th Annual Midcontinental Paleobotanical Colloquium, Gainesville, FL.

52. **Tomescu, A.M.F.** and G.W. Rothwell. 2001. Exploring the cladistic relationships of sphenopsids. Botanical Society of America 96th Annual Meeting, Albuquerque, NM*.
53. **Tomescu, A.M.F.** and G.W. Rothwell. 2001. Hypotheses for the phylogeny of the Sphenopsida. 18th Annual Midcontinental Paleobotanical Colloquium, Washington, DC.
54. **Tomescu, A.M.F.** 2000. The seed fern *Lyginopteris* in the Mississippian of North America. Botanical Society of America 95th Annual Meeting, Portland, OR*.
55. **Tomescu, A.M.F.** 2000. A new pteridosperm occurrence in the Mississippian of Arkansas. 17th Annual Midcontinental Paleobotanical Colloquium, Chapel Hill, NC.
56. **Tomescu, M.** 1998. Coprolites of the C521 midden complex (Hârsova–tell, Constanta County, Romania) – general issues and implications of their distribution (in Romanian). Annual Conference of the National History Museum of Romania, Bucharest, Romania*.
57. **Tomescu, M.** and C. Haitã. 1997. Study of the lithics excavated at Hârsova–tell (Constanta County, Romania) and Bordusani–Popinã (Ialomita County, Romania) (in Romanian). 21st National Conference on archeological excavations, Bucharest, Romania*.
58. **Tomescu, M.** 1996. Le cadre naturel de la region de Hârsova (Roumanie). International Colloquium "Le bassin du Bas Danube entre la V^{eme} et III^{eme} millenaire avant notre ere", Bucharest, Romania.
59. **Tomescu, M.** and M.–F. Diot. 1996. Apports des analyses palynologiques à l'étude du tell de Hârsova. International Colloquium "Le bassin du Bas Danube entre la V^{eme} et III^{eme} millenaire avant notre ere", Bucharest, Romania.
60. **Tomescu, M.** 1996. Issues of the pollen analysis (in Romanian). "The archeological excavations at Popina–Bordusani (Ialomita County, Romania). Multidisciplinary investigations". Special Session of the "Vasile Pârvan" Institute of Archeology, Bucharest, Romania.
61. **Tomescu, M.** and C. Haitã. 1996. Preliminary results on the sources of the lithic raw materials (in Romanian). "The archeological excavations at Popina–Bordusani (Ialomita County, Romania). Multidisciplinary investigations". Special Session of the "Vasile Pârvan" Institute of Archeology, Bucharest, Romania.
62. **Tomescu, M.** 1995. The archeological excavations at Hârsova–tell (Constanta County, Romania). Pollen analyses (in Romanian). 19th National Conference on archeological excavations, Cluj–Napoca, Romania*.
63. **Tomescu, M.** 1995. The Gumelnita settlement at Bordusani–Popinã (Ialomita County, Romania). Pollen analyses (in Romanian). 19th National Conference on archeological excavations, Cluj–Napoca, Romania*.
64. **Tomescu, M.** and C. Haitã. 1995. The Gumelnita settlement at Bordusani–Popinã (Ialomita County, Romania). Study of the lithics (in Romanian). 19th National Conference on archeological excavations, Cluj–Napoca, Romania*.
65. **Tomescu, M.**, C. Haitã, and A. Baltres. 1995. The archeological excavations at Hârsova–tell (Constanta County, Romania). Study of the lithics in the Eneolithic levels (in Romanian). 19th National Conference on archeological excavations, Cluj–Napoca, Romania*.
66. **Tomescu, M.** and M.–F. Diot. 1995. Analyse palynologique de sédiments actuels anthropiques préalable à l'étude du tell d'Hârsova (Roumanie) (poster). International Colloquium "L'archéométrie dans les pays européens de langue latine", Périgueux, France.
67. **Tomescu, M.** 1994. Petrographic assessment of the lithics at Bordusani–Popinã (Ialomita County, Romania) (in Romanian). 18th National Conference on archeological excavations, Satu Mare, Romania*.

68. **Tomescu, M.** and M.–F. Diot. 1994. The tell at Hârsova (Constanta County, Romania). First pollen results (in Romanian). 18th National Conference on archeological excavations, Satu Mare, Romania*.
69. **Tomescu, M.** and C. Haită. 1994. Petrographic assessment of the lithics at Hârsova–tell (Constanta County, Romania) (in Romanian). 18th National Conference on archeological excavations, Satu Mare, Romania*.
70. **Tomescu, M.** and V. Răducanu. 1989. Synthesis of the caves of the Lupsa River Valley (Mehedinti Mountains, Romania) (in Romanian). National Speleological Conference, Izvorul Muresului, Romania.
71. Bădescu, D. and **M. Tomescu**. 1989. Geology and tectonics of the Rătei Cave (Bucegi Mountains, Romania) (in Romanian). National Speleological Conference, Izvorul Muresului, Romania.

Invited Lectures and Presentations

1. Root evolution – current state of the art. October 2013, Humboldt State University.
2. Plant evolution research at Humboldt State University. September 2013, Museo Paleontologico Egidio Feruglio, Trelew, Argentina.
3. Everything seems simpler from a distance: adding to the complexity of Early Devonian floras. May 2013, Oregon State University, Corvallis, Oregon.
4. Exploring the Early Devonian floras of western North America – the Beartooth Butte Formation of Wyoming. November 2012, Claremont Graduate University – Rancho Santa Ana Botanic Garden, Claremont, California.
5. Fossils, anatomy and morphological evolution in plants – a focus on rooting systems. November 2010, Tunghai University, Taichung, Taiwan.
6. After the dawn: life on land and the early communities of complex eukaryotes. February 2008, University of Gottingen, Germany.
7. Fossils in phytogeography. Lecture, BOT 580 course – Phytogeography, October 2006, Humboldt State University.
8. Plant phylogeny: knowing what we don't know. Rumble Botanical Awards, Department of Biological Sciences. May 2006, Humboldt State University.
9. Paleobotany: playing detectives with dead plants and rocks. April 2006, Humboldt State University Natural History Museum.
10. The joys of paleobotany: stories of dead plants and rocks. April 2006, Humboldt Gem and Mineral Society.
11. Climate change: scale in time and space. Lecture, SCI 431 course – The Nature and Practice of Science for Elementary Education. April 2006, Humboldt State University.
12. Coal ball peel technique workshop. December 2005, Humboldt State University Botany Club.
13. Fossils and morphology: updating perspectives on early terrestrial biotas and the initial radiation of filicalean ferns. February 2005, Department of Biological Sciences, Humboldt State University.

Professional Affiliations

Botanical Society of America (and Paleobotanical Section, BSA)
 Geological Society of America
 International Organisation of Palaeobotany
 Paleontological Society
 Sigma Xi

Service

Department of Biological Sciences, Humboldt State University

Personnel Committee – Tenure and Promotion (2011-2013; Committee Chairperson 2012-2013)

Graduate Advisory Committee (2010-2013)

Biology Graduate Student Association speaker series committee, faculty member (2009-2012)

Greenhouse Steering Committee (2006-present)

Masters Student Grant Committee (2006-2011)

Botanical Awards Committee (2006-2013)

Co-Editor (Nash, T.H., L. Geiser, B. McCune, D. Triebel, A.M.F. Tomescu, and W.B. Sanders, eds.),
Biology of lichens – Symbiosis, Ecology, Environmental Monitoring, Systematics and Cyber
Applications, *Bibliotheca Lichenologica* 105, 2010.

Section Chairperson, Paleobotanical Section, Botanical Society of America (2007-2008).

Convenor, “What’s new about the oldest lichens and bryophytes” symposium, 6th International
Association for Lichenology – joint American Bryological and Lichenological Society Meeting,
Pacific Grove, California, USA, July 2008.

Co-convenor, “Origin of Terrestrial Biotas” Symposium, 7th International Organization of Paleobotany
Conference, Bariloche, Argentina, March 2004.

Graduate student member, Curriculum Committee, Department of Environmental and Plant Biology,
Ohio University, Athens OH, 2003-2004.

Co-Editor (Dragastan, O., M. Tomescu, and T. Barus, eds.), *Bulletin of the Department of Geology and
Paleontology, Faculty of Geology and Geophysics. University of Bucharest (Romania)*, 1996.

Manuscript Reviews (39)

Alcheringa (1)

American Journal of Botany (4)

Bibliotheca Lichenologica (1)

Botanical Journal of the Linnean Society (1)

Geology (1)

International Journal of Plant Sciences (5)

Journal of the Torrey Botanical Society (2)

Journal of Paleontology (2)

Nature Geoscience (1)

New Phytologist (4)

Palaeontology (3)

Palaaios (3)

Paleobiology (1)

Perspectives in Plant Ecology, Evolution and Systematics (1)

Plant Cell – Teaching Tools in Plant Biology series (3)

Review of Palaeobotany and Palynology (3)

Societies (1)

Trends in Ecology and Evolution (1)

Vegetation History and Archaeobotany (1)

Textbook and textbook chapter reviews (3)

Pearson (1)

MacMillan (2)

Grant Reviews

Paleontological Society – Sepkoski International Research Grants (2011)

Deutsche Forschungsgemeinschaft – German Research Foundation (2009)

Teaching Experience

Humboldt State University (2005-present)

- BOT 521 – Paleobotany
- BOT 372 – Evolutionary Morphology of Plants
- BOT 321 – Developmental Plant Anatomy
- BOT 310 – General Plant Physiology
- BOT 105 – General Botany

Ohio University (1999-2004)

- PBIO 442/542 – Experimental Anatomy of Plant Development: Laboratory
- PBIO 308/508 – Vascular Plant Morphology: Laboratory
- PBIO 312/512 – Plant Anatomy: Laboratory
- PBIO 115 – Plant Structure and Development: Laboratory and invited lectures
- BIOL 101 – Principles of Biology: Laboratory

University of Bucharest, Romania (1997-1998)

- Paleobotany and Palynology: Laboratory
- Biostratigraphic methods: Invited lectures
- Physical Geology: Laboratory