

**Stephen Richard Meyers, Vilas Distinguished Professor**

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**Education**

- Dec. 2003 *Doctor of Philosophy*, Northwestern University, Geological Sciences  
Dissertation: “Integrated Cyclostratigraphy and Biogeochemistry of the Cenomanian/Turonian Boundary Interval, Western Interior Basin, North America.”
- June 1999 *Master of Science*, Northwestern University, Geological Sciences
- June 1996 *Bachelor of Science*, Antioch College, Environmental Science

**Primary Professional Positions**

- 2017-present Vilas Distinguished Professor, University of Wisconsin-Madison,  
Dept. of Geoscience
- 2017-present Full Professor, University of Wisconsin-Madison, Dept. of Geoscience
- 2014-2017 Associate Professor, University of Wisconsin-Madison, Dept. of Geoscience
- 2010-2014 Assistant Professor, University of Wisconsin-Madison, Dept. of Geoscience
- 2006-2009 Assistant Professor, University of North Carolina-Chapel Hill,  
Dept. of Geological Sciences
- 2003-2005 Gaylord Donnelley Postdoctoral Environmental Fellow, Yale University,  
Dept. of Geology and Geophysics

**Other Professional Appointments**

- 2017-present Co-director, Urbino Summer School in Paleoclimatology (USSP), Italy
- 2017-present Adjunct Senior Research Scientist, Columbia University, Lamont-Doherty Earth  
Observatory
- Summer 2017 Visiting Professor, Université d'Angers, France
- Summer 2017 Visiting Professor, Observatoire de Paris, France
- Spring 2017 Visiting Scientist, Institute of Geological and Nuclear Science (GNS),  
New Zealand
- Fall 2016 Visiting Associate Professor, Columbia University, Dept. Earth and  
Environmental Sciences
- 2012-2013 Fixed Term Faculty, University of North Carolina-Chapel Hill,  
Dept. of Marine Sciences

**Honors, Fellowships and Awards**

- 2018 *Elected Fellow*, The Geological Society of America, Citation: “Professor Stephen Meyers is an internationally recognized leader in the field of cyclostratigraphy, which he has helped to elevate to an unprecedented level of scientific rigor and consequence. He has also inspired new generations of geoscientists through his outstanding classroom teaching and specialist workshops.”
- 2018 *University Housing Honored Instructor* (for GEOSCI 100: General Geology)
- 2017 *Vilas Distinguished Achievement Professorship*, in recognition of “distinguished scholarship as well as standout efforts in teaching and service”, UW-Madison

- 2016 *James Lee Wilson Award*, The Society for Sedimentary Geology (SEPM), in recognition of "Excellence in Sedimentary Geology by a Young Scientist"
- 2016 *Faculty Teaching Award for Graduate Instruction* (for GEOSCI 732: Geochemistry of Sediments), UW-Madison, Department of Geoscience
- 2016 *Columbia Climate Center Lecturer*, Fall 2016, Columbia Univ. & NASA GISS
- 2015 *Distinguished Alumni Award*, Northwestern University, Department of Earth and Planetary Sciences
- 2014 *Chi Omega Honored Instructor* (for GEOSCI 100: General Geology)
- 2012 *CAREER Award*, National Science Foundation
- 2003 *Gaylord Donnelley Postdoctoral Environmental Fellowship*, Yale University
- 2003 *Outstanding Paper of 2001 Award*, Journal of Sedimentary Research, Meyers et al., "Integrated quantitative stratigraphy of the Cenomanian-Turonian Bridge Creek Limestone Member using Evolutive Harmonic Analysis and stratigraphic modeling"
- 2002 *Sloss Graduate Fellowship*, Northwestern University
- 2002 *Marion Sloss Award* for outstanding teaching assistant, Northwestern University
- 2001 *Horace A. Scott Award* for research accomplishment/potential, Northwestern University

## Bibliography

*underlined italics* = UW-Madison or UNC-Chapel Hill Graduate Student

*italics* = Defense committee member (other than UW or UNC)

### Refereed papers (published or in press)

42. Levy, R.H., **Meyers, S.R.**, Naish, T.R., Golledge, N.R., McKay, R.M., Crampton, J.S., DeConto, R.M., DeSantis, L. Florindo, F., Gasson, E.G.W., Harwood, D.M., Luyendyk, B.P., Powell, R.D., Clowes, C., Kulhanek, D., 2019, Antarctic ice-sheet sensitivity to obliquity forcing enhanced through ocean connections, *Nature Geoscience*, <https://doi.org/10.1038/s41561-018-0284-4>.
41. **Meyers, S.R.**, 2019, Cyclostratigraphy and the problem of astrochronologic testing, *Earth-Science Reviews* 190, p. 190-223.
40. **Meyers, S.R.**, Malinverno, A., 2018, Proterozoic Milankovitch cycles and the history of the solar system, *Proceedings of the National Academy of Sciences*, [www.pnas.org/cgi/doi/10.1073/pnas.1717689115](http://www.pnas.org/cgi/doi/10.1073/pnas.1717689115).

### **PRESS**

- Guardian:

<https://www.theguardian.com/science/2018/jun/04/the-days-are-getting-longer-but-very-very-slowly>

- National Geographic:

<https://news.nationalgeographic.com/2018/06/summer-solstice-2018--days-are-getting-longer/>

- Der Spiegel:

<http://www.spiegel.de/wissenschaft/natur/tag-dauerte-vor-1-4-mrd-jahren-18-stunden-schuld-war-mond-a-1211341.html#ref=rss>

39. Crampton, J.S., **Meyers, S.R.**, Cooper, R., Sadler, P., Foote, M., Harte, D., 2018, Pacing of Paleozoic macroevolutionary rates by Milankovitch grand cycles, *Proceedings of the National Academy of Sciences*, [www.pnas.org/cgi/doi/10.1073/pnas.1714342115](http://www.pnas.org/cgi/doi/10.1073/pnas.1714342115).
38. Jones, M.M., Sageman, B.B., **Meyers, S.R.**, 2018, Turonian sea level and paleoclimatic events in astronomically-tuned records from the tropical North Atlantic and Western Interior Seaway, *Paleoceanography*, 10.1029/2017PA003158.

37. Junium, C., **Meyers, S.R.**, Arthur, M.A., M., 2018, Nitrogen cycle dynamics in the mid-Cretaceous Greenhouse, *Earth and Planetary Science Letters* 481, 404-411.
36. Sabatino, N., **Meyers, S.R.**, Voigt, S., Coccioni, R., Sprovieri, M., 2018, A new high-resolution carbon-isotope stratigraphy for the Campanian (Bottaccione section): Its implications for global correlation, ocean circulation, and astrochronology, *Palaeogeography, Palaeoclimatology, Palaeoecology* 489, p. 29-39.
35. Ma, C., **Meyers, S.R.**, Sageman, B.B., 2017, Theory of chaotic orbital variations confirmed by Cretaceous geological evidence, *Nature* 542, p. 468-470.

**PRESS**

- Scientific American: <https://www.scientificamerican.com/podcast/episode/chaotic-orbits-could-cause-catastrophic-collision/>
- Nature: <https://www.nature.com/articles/542419a>
- Popular Science: <https://www.popsci.com/formula-interglacial-ice-age-prediction>

34. Baddouh, M., Carroll, A.R., **Meyers, S.R.**, Beard, B.L., Johnson, C.M., 2017, Chronostratigraphic Correlation of Lacustrine Deposits Using  $^{87}\text{Sr}/^{86}\text{Sr}$  Ratios, Eocene Green River Formation, WY., *Journal of Sedimentary Research* 87, p. 406-423.
33. Ingram, W., **Meyers, S.R.**, Shen, Z., Xu, H., and Martens, C.S., 2016, Manganese enrichments near a large gas-hydrate and cold-seep field: A record of past redox and sedimentation events, *The Depositional Record*; doi: 10.1002/dep2.18
32. Fu, W., Jiang, D., Montañez, I.P., **Meyers, S.R.**, Motani, R., and Tintori, A., 2016, Eccentricity paced carbon cycling in the Early Triassic and implications for post-extinction ecosystem recovery, *Scientific Reports* 6, 27793; doi: 10.1038/srep27793
31. Baddouh, M., **Meyers, S.R.**, Carroll, A.R., Beard, B.L., and Johnson, C.M., 2016, Lacustrine  $^{87}\text{Sr}/^{86}\text{Sr}$  as a tracer to reconstruct Milankovitch forcing of the Eocene hydrologic cycle, *Earth and Planetary Science Letters*, v. 448, p. 62-68.
30. Laurin, J., **Meyers, S.R.**, Galeotti, S., and Lanci, L., 2016, Frequency modulation reveals the phasing of orbital eccentricity during Cretaceous Oceanic Anoxic Event II and the Eocene hyperthermals, *Earth and Planetary Science Letters*, v. 442, p. 143-156.
29. **Meyers, S.R.**, 2015, The evaluation of eccentricity-related amplitude modulation and bundling in paleoclimate data: An inverse approach for astrochronologic testing and time scale optimization, *Paleoceanography*, v. 30, doi:10.1002/2015PA002850.
28. Zeeden, C., **Meyers, S.R.**, Lourens, L.J., Hilgen, F.J., 2015, Testing astronomically tuned age models, *Paleoceanography*, v. 30, doi:10.1002/2014PA002762.
27. Laurin, J., **Meyers, S.R.**, Ulicny, D., Jarvis, I., and Sageman, B., 2015, Axial-obliquity control on the greenhouse carbon budget through middle- to high-latitude reservoirs, *Paleoceanography*, v. 30, doi:10.1002/2014PA002736.
26. Patterson, M. O., McKay, R., Naish, T., Escutia, C., Jimenez-Espejo, F. J., Raymo, M.E., **Meyers, S.R.**, Tauxe, L., Brinkhuis, H., and IODP Expedition 318 Scientists, 2014, Response of the East Antarctic Ice Sheet to orbital forcing during the Pliocene and Early Pleistocene, *Nature Geoscience*, v. 7, p. 841-847.
25. Ma, Chao, **Meyers, S.R.**, Sageman, B.B., and Singer, B.S., Jicha, B.R., 2014, Testing the Astronomical Time Scale for Oceanic Anoxic Event 2, and its Extension into Cenomanian Strata of the Western Interior Basin (U.S.A.), *Geological Society of America Bulletin*, v. 126, p. 974-989 (available online Mar. 20, 2014).
24. Sageman, B.B., Singer, B.S., **Meyers, S.R.**, Siewert, S.E., Condon, D., Jicha, B.R., Obradovich, J.D., and Sawyer, D.A., 2014, Integrating  $^{40}\text{Ar}/^{39}\text{Ar}$ , U-Pb, and astronomical

- clocks in the Cretaceous Niobrara Formation, Western Interior Basin, USA, Geological Society of America Bulletin, v. 126, p. 956-973 (available online Mar. 20, 2014).
23. Wendler, J, **Meyers, S.**, Wendler, I, Kuss, J., 2014, A million-year-scale astronomical control on Late Cretaceous Sea Level, Newsletters on Stratigraphy, v. 47, p. 2-19. (available online Jan. 9, 2014).
  22. Ingram, W., **Meyers, S.R.**, Martens, C., 2013, Chemostratigraphy of deep-sea Quaternary sediments along the northern Gulf of Mexico slope: Quantifying the source and burial of sediments and organic carbon at Mississippi Canyon 118, *Marine and Petroleum Geology*, v. 46, p. 190-200.
  21. Aswasereelert, W., **Meyers, S.R.**, Carroll, A.R., Peters, S.E., Smith, M.E. and Feigl, K.L., 2013, Basin-scale Cyclostratigraphy of the Green River Formation, Wyoming, *GSA Bulletin*, v. 125, p. 216-228.
  20. **Meyers, S.R.**, Sageman, B.B. and Arthur, M.A., 2012, Obliquity forcing of organic matter accumulation during Oceanic Anoxic Event 2, *Paleoceanography*, 27, PA3212, doi:10.1029/2012PA002286
  19. **Meyers, S.R.**, 2012, Seeing Red in Cyclic Stratigraphy: Spectral Noise Estimation for Astrochronology, *Paleoceanography*, 27, PA3228, doi:10.1029/2012PA002307.
  18. **Meyers, S.R.**, Siewert, S.E., Singer, B.S., Sageman, B.B., Condon, D.J., Obradovich, J.D., Jicha, B.R., and Sawyer, D.A., 2012, Intercalibration of Radioisotopic and Astrochronologic Time Scales for the Cenomanian/Turonian Boundary Interval, Western Interior Basin, U.S.A., *Geology*, v. 40, p. 7-10 (available online Dec 2011).
  17. Dale, A.W., **Meyers, S.R.**, Aguilera, D.R., Arndt, S., and Wallmann, K., 2012, Controls on organic carbon and molybdenum accumulation in Cretaceous marine sediments from the Cenomanian–Turonian interval including Oceanic Anoxic Event 2, *Chemical Geology*, 324-325, p. 28-45 (available online Oct 2011).
  16. **Meyers, S.R.**, Peters, S.E., 2011, A 56 million year rhythm in North American sedimentation during the Phanerozoic, *Earth and Planetary Science Letters*, v. 303, p. 174-180.
  15. Ingram, W., **Meyers, S.R.**, Brunner, C., and Martens, C.S., 2010, Late Pleistocene-Holocene sedimentation surrounding an active seafloor gas-hydrate and cold-seep field on the Northern Gulf of Mexico Slope, *Marine Geology*, 278, p. 43-53.
  14. Tipple, B., **Meyers, S.** and Pagani, M., 2010, The carbon isotope ratio of Cenozoic CO<sub>2</sub>: a comparative evaluation of available geochemical proxies, *Paleoceanography*, v.25, PA3202, doi:10.1029/2009PA001851.
  13. **Meyers, S.R.**, and Hinnov, L.A., 2010, Northern Hemisphere glaciation and the evolution of Plio-Pleistocene climate noise, *Paleoceanography*, 25, PA3207, doi:10.1029/2009PA001834.
  12. **Meyers, S.R.**, Sageman, B.B., and Pagani, M., 2008, Resolving Milankovitch: Consideration of Signal and Noise: *American Journal of Science*, v. 308, p. 770-786.
  11. **Meyers, S.R.**, 2008, Resolving Milankovitchian Controversies: The Triassic Latemar Limestone and Eocene Green River Formation: *Geology*, v. 36, p. 319-322.
  10. **Meyers, S.R.**, 2007, Production and preservation of organic matter: The significance of iron: *Paleoceanography*, v. 22, PA4211, doi:10.1029/2006PA001332.
  9. **Meyers, S.R.**, and Sageman, B.B., 2007, Quantification of Deep-Time Orbital Forcing by Average Spectral Misfit: *American Journal of Science*, v. 307, p. 773-792.
  8. **Meyers, S.R.**, and Pagani, M., 2006, Quasi-periodic climate teleconnections between northern and southern Europe during the 17<sup>th</sup>-20<sup>th</sup> centuries, *Global and Planetary Change*, v. 54, p. 291-301.

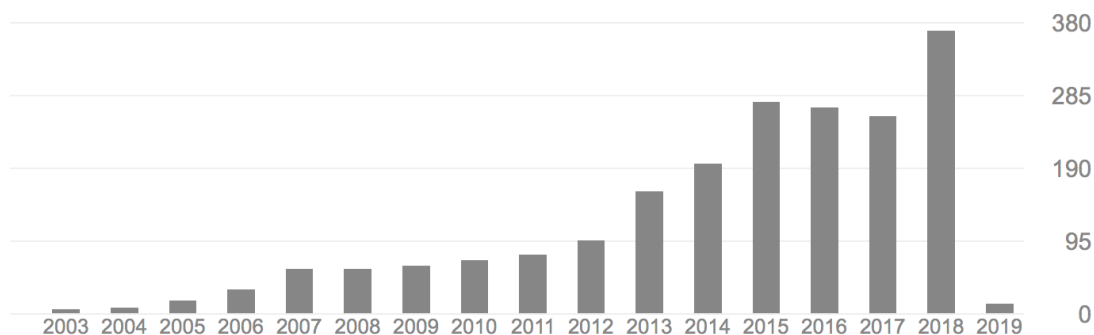
7. Sageman, B.B., **Meyers, S.R.**, and Arthur, M.A., 2006, Orbital time scale and new C-isotope record for Cenomanian-Turonian boundary stratotype, *Geology*, v. 34, p. 125-128.
6. Laurin, J., **Meyers, S.R.**, Sageman, B.B., and Waltham, D.A., 2005, Phase-lagged amplitude modulation of hemipelagic cycles: A potential tool for recognition and analysis of sea level change, *Geology*, v. 33, p. 569-572.
5. Willard, D.A., Bernhardt, C.E., Korejwo, D.A., and **Meyers, S.R.**, 2005, Impact of millennial-scale Holocene climate variability on eastern North American terrestrial ecosystems: pollen-based climatic reconstructions, *Global and Planetary Change*, v. 47, p. 17-35.
4. **Meyers, S.R.**, Sageman, B.B., and Lyons, T., 2005, Organic carbon burial rate and the molybdenum proxy: Theoretical framework and application to Cenomanian-Turonian OAE II, *Paleoceanography*, 20, 2002, doi:10.1029/2004PA001068.
3. **Meyers, S.R.**, and Sageman, B.B., 2004, Detection, quantification, and significance of hiatuses in pelagic and hemipelagic strata, *Earth and Planetary Science Letters*, v. 224, p. 55-72.
2. **Meyers, S.R.**, Sageman, B., and Hinnov, L., 2001, Integrated quantitative stratigraphy of the Cenomanian-Turonian Bridge Creek Limestone Member using Evolutive Harmonic Analysis and stratigraphic modeling: *Journal of Sedimentary Research*, v. 71, p. 627-643. **(JSR Outstanding Paper of 2001)**
1. Lessa, G. C., **Meyers, S.R.**, and Marone, E., 1998, Holocene stratigraphy in the Paranaguá Bay estuary, southern Brazil: *Journal of Sedimentary Research*, v. 68, p.1060-1076.

#### Other Publications, Software, and Unrefereed Reports

- Marsicek, J., Goring, S., Marcott, S., **Meyers, S.**, Peters, S., Ross, I., Singer, B., and Williams, J.W. in press. Automated Extraction of Spatiotemporal Geoscientific Data from the Literature using GeoDeepDive, *PAGES Magazine*.
- Geochronology Working Group, 2018, Toward a 4D Digital Earth, EarthRates All Hands Science Priorities Workshop.
- Meyers, S.R.**, 2017, Cracking the paleoclimate code, *Nature*, doi:10.1038/nature22501.
- Meyers, S.R.**, Singer, B.B. and Schmitz, M.D., 2015, Exploring Radioisotopic Geochronology and Astrochronology, *EOS*, v. 96, p. 9.
- Meyers, S.R.**, 2014, Astrochon: An R Package for Astrochronology, <http://cran.r-project.org/package=astrochon>
- Husson, D., Sageman, B., **Meyers, S.R.**, and Peters, C., 2013, Carbon Capture and Sequestration Report, a report prepared for the NSF-sponsored SEES Workshop “Natural and Engineered Carbon Sequestration”, 221 pp.
- Speed, R., and **Meyers, S.R.**, 2001, Preliminary geologic map of the Candelaria quadrangle, Nevada, United States Geological Survey Cooperative Agreement 00HQAG0064.
- Townsend, P., Cowan, K., **Meyers, S.**, Crist, N., 1997. Wellhead Protection Area Delineation Report Prepared for the Village of Bradford Wellhead Protection Commission, Hydro-Log, Yellow Springs, 252 pp.

**Google Scholar Citation metrics, as of January 10, 2019:**

	All	Since 2014
Citations	2068	1383
h-index	25	23
i10-index	32	30



**(Included: Journal articles, Astrochron software, and dissertation)**

**Meeting Abstracts (97 presentations at professional scientific meetings)**

*underlined italics* = UW-Madison or UNC-Chapel Hill Graduate Student

*italics* = Defense committee member (other than UW or UNC)

Sullivan, N., **Meyers, S.R.**, Sadler, P., Crampton, J., Levy, R., McKay, R., 2018, *High-resolution Earth History: A Synthesis of Astrochronology and Constrained Optimization (CONOP)*, Geological Society of America Annual Meeting.

Liu, H., Marcott, S., **Meyers, S.R.**, 2018, *A Sediment Mixing Model for Improved Assessment of Paleoclimate Data*, 2018 AGU Fall Meeting.

**INVITED:** Ma, C., **Meyers, S.R.**, and Sageman, B.B., 2018, *Integrating Multiple Clocks and their Applications in Geology and Astronomy*, Goldschmidt Conference, 12-17 August, Boston, MA.

Levy, R., **Meyers, S.R.**, Golledge, N.R., Naish, T.R., Crampton, J.S., McKay, R.M., Deconto, R.M., De Santis, L., Gasson, E.G.W., Harwood, D.M., Luyendyk, B.P., 2018, *Antarctic ice sheet evolution explained by CO<sub>2</sub> changes and obliquity sensitivity*, Polar 2018 SCAR/IASC Open Science Conference, 19-23 June 2018 Davos, Switzerland.

Marsicek, J., Goring, S., Marcott, S., **Meyers, S.**, Peters, S., Ross, I., Singer, B., Williams, Jack, 2018, *Applications of GeoDeepDive to the Earth Sciences*, 2018 EarthCube All Hands Meeting, 6-8 June 2018, Washington, DC.

**INVITED:** **Meyers, S.R.**, and Malinverno, A., *A Bayesian inversion approach for reconstructing Solar System behavior and Earth-Moon history*, Geological Society of America Abstracts with Programs. Vol. 49, No. 6, doi: 10.1130/abs/2017AM-305306 (2017).

Ma, C., **Meyers, S.R.**, and Sageman, B.B., *Constraining orbital solutions using the Cretaceous Geological Record*, Geological Society of America Abstracts with Programs. Vol. 49, No. 6, doi: 10.1130/abs/2017AM-305619 (2017).

**INVITED:** **Meyers, S.R.**, *Being Milankovitch*, Geological Society of America Abstracts with Programs. Vol. 48, No. 7, doi: 10.1130/abs/2016AM-279106 (2016).

- Meyers, S.R.**, Ma, C. and Sageman, B.B., *Grand Cycles of the Niobrara Formation: From Gilbert to Chaos*, Geological Society of America Abstracts with Programs. Vol. 48, No. 7, doi: 10.1130/abs/2016AM-279108 (2016).
- INVITED: Meyers, S.R.**, *Being Milankovitch*, 12<sup>th</sup> International Conference on Paleoceanography (2016).
- Meyers, S.R.**, *Time scale optimization and the hunt for astronomical cycles in deep time strata*, EGU General Assembly 2016, Geophysical Research Abstracts, v.18, EGU2016-11468 (2016).
- Zeeden, C., **Meyers, S.R.**, Lourens, L.J., Hilgen, F.J., *Testing obliquity-tuned timescales*, EGU General Assembly 2016, Geophysical Research Abstracts, v.18, EGU2016-14233 (2016).
- Linzmeier, B., and **Meyers, S.R.**, *Improving undergraduate writing by communicating local geological knowledge*, Earth Educators' Rendezvous 2016 (2016).
- Shanks, L., Kelly, D.C., **Meyers, S.R.**, *On the Recurrence of Enigmatic Nannoplankton Blooms in the Subtropical South Atlantic during the Early Oligocene*, 2015 AGU Fall Meeting.
- Singer, B.S., **Meyers, S.R.**, Sageman, B.B., Jicha, B.R., Condon, D., *Improving Cretaceous time scale uncertainties via multi-collector  $^{40}\text{Ar}/^{39}\text{Ar}$  dating*, Geological Society of America Abstracts with Programs. Vol. 47, No. 7, p. 172 (2015).
- Fu, W., Jiang, D., Montanez, I., **Meyers, S.R.**, Motani, R., *Timing of Olenekian carbon cycle events and the recovery of oceanic ecosystem following the end-Permian extinction*, Geological Society of America Abstracts with Programs. Vol. 47, No. 7, p. 700 (2015).
- Meyers, S.R.**, *Decoding climate rhythms with "Astrochon: An R Package for Astrochronology"*, 2015 GSA North-Central Section Meeting.
- Linzmeier, B., and **Meyers, S.R.**, *Undergraduates as communicators of local geological knowledge in a sedimentology and stratigraphy course*, 2015 GSA North-Central Section Meeting.
- Sageman, B.B., **Meyers, S.R.**, Singer, B.B., *Improved Characterization of uncertainty in time scale development*, 2015 GSA North-Central Section Meeting.
- Jones, M.M., Sageman, B.B., Ma, C., Meyers, S.R., *Calibrating the Late Cretaceous carbon cycle using astronomically tuned carbon isotope records at Demerara Rise (tropical North Atlantic)*, 2015 GSA North-Central Section Meeting.
- Zeeden, C., **Meyers, S.R.**, Lourens, L.J., and Hilgen, F.J., *Validating astronomically tuned age models*, EGU General Assembly 2015.
- Jones, M.M., Sageman, B.B., Ma, C., Meyers, S.R., *Bridging the Turonian gap in the Mesozoic Astronomical Time Scale via the Integration of Chemostratigraphic and Cyclostratigraphic data from Demerara Rise*, Geological Society of America Abstracts with Programs. Vol. 46, No. 6, p. 271 (2014)
- Baddouh, M., Carroll, A.R., **Meyers, S.R.**, Beard, B.L., and Johnson, C.M., *High resolution correlation of Eocene lake deposits (Green River Formation, Wyoming) using Sr-isotope chemostratigraphy*, Geological Society of America Abstracts with Programs. Vol. 46, No. 6, p. 379 (2014).
- Baddouh, M., **Meyers, S.R.**, Carroll, A.R., Beard, B.L., and Johnson, C.M., *Astronomically-Forced Lake Expansion and Contraction Cycles: Sr Isotopic Evidence from the Eocene Green River Formation, Western USA*, 2014 AGU Fall Meeting, Dec. 14-18, 2014.
- Junium, C.K., **Meyers, S.R.**, Arthur, M.A., *Why so low? Making sense of  $^{15}\text{N}$ -depleted nitrogen isotope values in the Late Cretaceous*, 2014 AGU Fall Meeting, Dec. 14-18, 2014.
- Ma, C., and **Meyers, S.R.**, *The hunt for pristine Cretaceous astronomical rhythms at Demerara Rise (Cenomanian-Coniacian)*, 2014 AGU Fall Meeting, Dec. 14-18, 2014.
- Aswasereelert, W., **Meyers, S.R.**, and Hinnov, L.A., *Climate "Noise" and the cryosphere: New*



- constraints on the evolution of ice sheets during the Cenozoic*, 2014 AGU Fall Meeting, Dec. 14-18, 2014.
- INVITED: Meyers, S.R.**, *Astrochronologic Testing in Deep-Time Strata: Historical Overview and Recent Advances*, 2014 AGU Fall Meeting, Dec. 14-18, 2014.
- Walters, A.P., Meyers, S.R., and Carroll, A.R., *Cyclostratigraphic Evaluation of Repetitive Sedimentary Microfacies From the Green River Formation, Utah: Evidence for Annual, El Niño, and Sunspot Cycles?*, AAPG 2014 Annual Convention & Exhibition (2014).
- Ingram, W.C. and **Meyers, S.R.**, *Authigenic Manganese Deposits Surrounding the Mississippi Canyon 118 Gas Hydrate and Cold-seep Field: Their Documentation, Interpretation, and Utility for Evaluating Redox State and Stability of Sedimentation*, Geological Society of America Abstracts with Programs. Vol. 45, No. 7, p. 28 (2013).
- INVITED: Hinnov, L.A.** and **Meyers, S.R.**, *Developments in the Intercalibration of Radioisotopic Dating and Astrochronology*, Geological Society of America Abstracts with Programs. Vol. 45, No. 7, p. 288 (2013). [Talk delivered by Dr. S. Meyers]
- Sageman, Bradley B., Joo, Young Ji, Singer, Brad S., **Meyers, Stephen R.**, Ma, Chao, Jicha, Brian R., and Condon, Daniel, *Global Application of Revised Late Cretaceous Time Scale Using Integrated Chemostratigraphy, Biostratigraphy and Geochronology*, Geological Society of America Abstracts with Programs. Vol. 45, No. 7, p. 748 (2013).
- Hinnov, L.A. and **Meyers, S.R.**, *Paleoclimate time scale estimation using multitaper spectral methods*, Applied Mathematics, Modeling and Computational Science (AMMCS) 2013 Conference, Wilfrid Laurier University- Waterloo, ON, Canada, August 26-30, 2013.
- INVITED: Meyers, S.R.**, *Patterns in Static*, DIMACS Workshop on Geological data fusion: Tackling the statistical challenges of interpreting past environmental change, An interdisciplinary workshop held at Rutgers University, Thursday-Friday, January 17-18, 2013. [Talk delivered by Dr. L. Hinnov in my absence, due to illness]
- INVITED: Meyers, S.R.**, Singer, B.S., Sageman, B.B., Siewert, S.E., Condon, D.J., and Jicha, B.R., *The Radioisotopic Calibration of Astronomical Time: New Constraints from the Cretaceous Western Interior Basin, U.S.A.*, 2012 AGU Fall Meeting, Dec. 3-7, 2012.
- Du, M., **Meyers, S.R.**, Hinnov, L.A., *Nonlinear Climate Responses to Orbital-Insolation during the early Miocene and Pleistocene: The Impact of Unipolar vs. Bipolar Glaciation*, 2012 AGU Fall Meeting, Dec. 3-7, 2012.
- Ingram, W.C., **Meyers, S.R.**, and Martens, C., *Controls on Sedimentary Geochemistry and Organic Carbon Burial at a Large Gas-hydrate and Cold-seep Field on the Northern Gulf of Mexico Slope*, Geological Society of America Abstracts with Programs. Vol. 44, No. 7, p. 485 (2012).
- Walters, A.P., **Meyers, S.R.**, Carroll, A.R., *Cyclostratigraphic Evaluation of Repetitive Sedimentary Microfacies from the Green River Formation via X-ray Fluorescence Scanning: Evidence for Annual, El Nino, and Sunspot Cycles?*, Geological Society of America Abstracts with Programs. Vol. 44, No. 7, p. 438 (2012).
- Ma, C., **Meyers, S.R.**, Sageman, B.B., Singer, B.S., Jicha, B., R., *An Extended Astronomical Time Scale for the Cenomanian/Turonian Boundary Interval, Cretaceous Western Interior Basin (USA)*, Geological Society of America Abstracts with Programs. Vol. 44, No. 7, p. 590 (2012).
- Singer, B.S., Siewert, S E., **Meyers, S.R.**, Sageman, B.B, Condon, D., Jicha, B.R., Sawyer, D.A and Obradovich, J.D., *The Cretaceous Time Scale: Progress and Prospects from Radioisotopic Dating and Astrochronology*, Geological Society of America Abstracts with Programs. Vol. 44, No. 7, p. 588 (2012).
- Meyers, S.R.**, *Seeing Red in Cyclic Stratigraphy*, William Smith Meeting 2012: Strata and Time,



- Geological Society of London, Sept. 4-5, 2012.
- Warren, Courtney E., Varekamp, Johan C., Thomas, Ellen, **Meyers, Stephen**, *A 4,000 year record of Long Island Sound Environments observed through XRF-core scanning*, GSA Northeastern Section Meeting (2012).
- McIntosh, R., Douglas, P.M., Warren, C., **Meyers, S.R.**, Coutros, P., Park, D.P., *A record of early to middle Holocene hydrologic variability from the West African Sahel*, Fall AGU Meeting (2011).
- Orland, I.J., Bar-Matthews, M., Ayalon, A., Burstyn, Y., Kozdon, R., Ushikubo, T., Matthews, A., **Meyers, S.**, Valley, J. W., *The seasonal climate record from Soreq Cave (Israel) speleothems*, Fall AGU Meeting (2011).
- Aswasereelert, W., **Meyers, S.R.**, Hinnov, L.A., Kelly, D.C., *Evolution of the Climate Continuum, from the Middle Miocene Climatic Optimum to the Present*, Fall AGU Meeting (2011).
- Hinnov, L.A., **Meyers, S.R.**, *SPECMAP chronology in 2011*, Fall AGU Meeting (2011).
- Meyers, S.R.**, Hinnov, L.A., *An Orbital Beat in the Equatorial Atlantic (~18-27 Ma): Reliable Chronometer or Wishful Thinking?*, Fall AGU Meeting (2011).
- Doebbert, A.C., Lamaskin, T., Peters, **S.**, **Meyers, S.R.**, Carroll, A., *A new Confidence-Limits Based Method for Comparing Detrital Zircon U-Pb Age Distributions*, Geol. Soc. America, Abs, 43(5), 443 (2011).
- Wendler, J.E., **Meyers, S.R.**, Wendler, I., Vogt, C., Kuss, J., *Drivers of Cyclic Sea Level Change During the Cretaceous Greenhouse: A new Perspective from the Levant Platform (Jordan)*, Geol. Soc. America, Abs, 43(5), 376 (2011).
- Singer, B.S., Condon, D., Jicha, B.R., Kuiper, K., Siewert, S.E., **Meyers, S.R.**, Sageman, B.B., Sawyer, D.A., Obradovich, J.D., *A Cretaceous to Pleistocene Perspective on Intercalibrating  $^{40}\text{Ar}/^{39}\text{Ar}$  and U-Pb Radioisotopic Clocks*, Geol. Soc. America, Abs, 43(5), 568 (2011).
- Ma, C., **Meyers, S.R.**, Sageman, B.B., Singer, B.S., *Testing the Astronomical Time Scale for Oceanic Anoxic Event 2, and its Extension into Cenomanian Strata of the Western Interior Basin (U.S.A.)*, Geol. Soc. America, Abs, 43(5), 127 (2011).
- INVITED: Meyers, S.R.**, Singer, B.S., Siewert, S.E., Sageman, B.B., Condon, D., Jicha, B.R., Sawyer, D.A., Obradovich, J.D., *Coupling Orbital and Radioisotopic Chronometers: Lessons Learned from the Cretaceous Western Interior Basin (U.S.A.)*, Geol. Soc. America, Abs, 43(5), 567 (2011).
- Brunner, C.A., Ingram, W., **Meyers, S.**, and Lutken, C., *Sedimentation at the Woolsey gas-vent complex in the northern Gulf of Mexico*, Journal of the Mississippi Academy of Sciences, v. 56, No. 1, p. 69. Given at the 75th Annual Meeting of the Mississippi Academy of Sciences, Feb 17-18, Hattiesburg, Ms. (2011)
- Singer, B., Condon, D., Siewert, S., Sageman, B., Sawyer, D., Obradovich, J., **Meyers, S.**, and Jicha, B., *The Next Generation Cretaceous Time Scale: How to integrate  $^{40}\text{Ar}/^{39}\text{Ar}$ , U-Pb and Astrochronologic ages?*, Fall AGU Meeting (2010).
- Meyers, S.**, Siewert, S., Singer, B., Sageman, B., Condon, D., Obradovich, J., Jicha, B., Sawyer, D., *Reducing Error Bars Through the Intercalibration of Radioisotopic and Astrochronologic Time Scales for the Cenomanian/Turonian Boundary Interval, Western Interior Basin*, Fall AGU Meeting (2010).
- Brunner, C., Ingram, W., and **Meyers, S.**, 2010. *What stratal thickness tells us about sedimentary processes in the vent complex at MC118*. Semi-annual Meeting of the Gulf of Mexico Methane Hydrates Consortium, October 26-27, 2010, Oxford, Ms.

- Singer, B., Condon, D., Siewert, S., **Meyers, S.**, Sageman, B., Obradovich, J., Sawyer, D., and Jicha, B., *Integrating Radioisotopic and Astrochronologic Time Scales for the Cretaceous*, Geol. Soc. America, Abs, 42(5), 394 (2010).
- Siewert, S., Singer, B., Condon, D., Obradovich, J., Sageman, B., Meyers, S., Jicha, B., Sawyer, D.,  $^{40}\text{Ar}/^{39}\text{Ar}$  and U-Pb Dating of the Cretaceous Niobrara Formation, Geol. Soc. America, Abs, 42(5), 394 (2010).
- Meyers, S.**, Siewert, S., Singer, B., Sageman, B., Condon, D., Obradovich, J., Jicha, B., Sawyer, D., *Reducing Error Bars Through the Intercalibration of Radioisotopic and Astrochronologic Time Scales for the Cenomanian/Turonian Boundary Interval, Western Interior Basin, USA*, Geol. Soc. America, Abs, 42(5), 394 (2010).
- Meyers, S.**, Peters, S., *A 56 Million Year Rhythm in North American Sedimentation During the Phanerozoic*, Geol. Soc. America, Abs, 42(5), 543 (2010).
- Junium, C., **Meyers S.**, Arthur, M., *An Eccentric Nitrogen Cycle During the Cretaceous?*, Geol. Soc. America, Abs, 42(5), 660 (2010).
- Meyers, S.R.**, Sageman, B.B., and Singer, B., *Integrating Radioisotopic and Astrochronologic Methods for Improvement of Time Scale Reconstructions*, STRATI2010, 4th French Congress on Stratigraphy (2010).
- He, B., **Meyers, S.R.**, and Alperin, M., *Evaluation of the diagenetic role of iron as a sulfide buffer at Cape Lookout Bight, North Carolina (USA)*, Eos. Trans. AGU, 90(52), Fall Meet. Suppl. (2009).
- Singer, B.S., Sageman, B.S. Siewert, S.E., Condon, D., Obradovich, J., Jicha, B.R., Sawyer, D.A., and **Meyers, S.R.**, *Implications of new  $^{40}\text{Ar}/^{39}\text{Ar}$  and U-Pb ages for Cenomanian-Turonian OAE 2*, Geol. Soc. America, Abs, 41(7), 421 (2009).
- Meyers, S.R.**, Sageman, B.B. and Arthur, M.A., *Obliquity Forcing and the Amplification of High-Latitude Climate Processes During Oceanic Anoxic Event 2*, AAPG Annual Convention (2009).
- Ingram, W., **Meyers, S.R.**, Brunner, C., and Martens, C., *Stability of a Large Gas Hydrate-Mud Volcano Field in the Northern Gulf of Mexico: Late Pleistocene to Present*, AAPG Annual Convention (2009).
- Meyers, S.R.**, and Hinnov, L.A., *Evolution of the Pleistocene Climate Continuum*, Eos. Trans. AGU, 89(53), Fall Meet. Suppl. (2008).
- Misner, T., **Meyers, S.R.**, Strano, S., Rosenmeier, M., and Straffin, E., *Preliminary Results of a Multi-Proxy Lake Sediment Core Study in East-Central France*, Eos. Trans. AGU, 89(53), Fall Meet. Suppl. (2008).
- Willard, D.A., Pagani, M., **Meyers, S.R.**, Cronin, T.M., and Wright, M., *Multi-proxy records of Chesapeake Bay Estuarine Response to Late Holocene Climate Variability*, Eos. Trans. AGU, 89(53), Fall Meet. Suppl. (2008).
- Meyers, S.R.**, Sageman, B.B., and Arthur, M.A., *Amplification of Obliquity Forcing during Oceanic Anoxic Event 2*, Geol. Soc. America, Abs, 40(6), 283 (2008).
- Cramer, B.D., **Meyers, S.R.**, Munnecke, A., and Jeppsson, L., *Is An Orbitally Tuned Paleozoic Timescale Achievable?*, Geol. Soc. America, Abs, 40(6), 283 (2008).
- He, Bo, **Meyers, S.R.**, and Alperin, M., *Testing the “Sulfide Buffer/Phosphorus Trap Hypothesis” Using Anoxic Coastal Sediments from Cape Lookout Bight (North Carolina Outer Banks)*, Geol. Soc. America, Abs, 40(6), 433 (2008).
- Ingram, W., **Meyers, S.R.**, Brunner, C., and Martens, C., *Centennial-Millennial Scale Stability of a Large Gas-Hydrate Field in the Northern Gulf of Mexico: Investigating Linkages to Climate Change and Slope Erosion*, Geol. Soc. America, Abs, 40(6), 278 (2008).

- Larkins, K.H., Meyers, S., Bartek, L.R., *Cyclic Sedimentation in the Mississippian Pride Shale: Quantitative Paleoenvironmental Analysis of Tidal Rhythmites Using X-Ray Fluorescence Scanning and Advanced Spectral Methods*, Geol. Soc. America, Abs, 40(6), 267 (2008).
- Meyers, S.R.,** Cramer, B.D., Jeppsson, L., Corfield, R.J., Siveter D.J., and Munnecke, A., *Towards the Establishment of a Silurian Astrochronology*, presented at the International Congress on Paleozoic Climates, August 23-31 2008, Lille, France.
- Ingram, W., Meyers, S.R., Brunner, C., and Martens, C., *Centennial-millennial scale stability of a large gas hydrate field in the northern Gulf of Mexico*, Geol. Soc. America, Abs, 40(4), 4 (2008).
- Larkins, K.H., Bartek, L.R., and **Meyers, S.,** *Cyclic sedimentation in the Pride Shale: Implications for Appalachian Basin geometry and ITCZ migration in the Late Paleozoic*, Geol. Soc. America, Abs, 39(6), 629 (2007).
- Meyers, S.R.,** *Production, Preservation and the Significance of Iron*, Eos. Trans. AGU, 87(52), Fall Meet. Suppl. (2006).
- Meyers, S.R.,** Sageman, B.B., *Causal Mechanisms for Oceanic Anoxic Events I: The Role of Iron*, Geol. Soc. America, Abs, 38(7), 513 (2006).
- Sageman, B.B., Flaum, J.A., Barclay, R.S., **Meyers, S.R.,** *Causal Mechanisms for Oceanic Anoxic Events II: The Role of Weathering?*, Geol. Soc. America, Abs, 38(7), 513 (2006).
- Flaum, J.A., Sageman, B.B., **Meyers, S.R.,** Hurtgen, M.T, *Causal Mechanisms for Oceanic Anoxic Events III: The Role of Phosphorous?*, Geol. Soc. America, Abs, 38(7), 513 (2006).
- Meyers, S.R.,** Sageman, B.B., and Pagani, M., *Resolving Milankovitch in the Paleoclimate Record: Consideration of Signal and Noise*, Geol. Soc. America, Abs, 37(7), A-525 (2005).
- Laurin, J., **Meyers, S.R.,** and Sageman, B.B., *Controls on Stratigraphic Architecture of Cenomanian-Turonian Strata, Western Interior Basin*, Geol. Soc. America, Abs, 37(7), A-337 (2005).
- Meyers, S.R.,** and Pagani, M., *25-year Quasi-periodic Climate Teleconnections Between Northern and Southern Europe via the North Atlantic Oscillation*, General Assembly of the European Geosciences Union, Geophysical Research Abstracts 7, 05735 (2005).
- Sageman, B.B., Arthur, M.A., Kenig, F., Laurin, J., McElwain, J.C., **Meyers, S.R.,** *The Cenomanian-Turonian Boundary Event: Linkage of High-Resolution Terrestrial and Marine Records of a Major Climate Perturbation During Peak Greenhouse Conditions*, Eos. Trans. AGU, 85(1), Fall Meet. Suppl. (2004).
- Meyers, S.R.,** and Pagani, M., *Quasi-periodic Climate Teleconnections Via the North Atlantic Oscillation: A New Perspective From Tree Rings*, Eos. Trans. AGU, 85(1), Fall Meet. Suppl. (2004).
- Meyers, S.R.,** and Sageman, B.B., *Cenomanian/Turonian Orbital Chronologies and Burial Flux Estimates: Calibrating the Biogeochemical Reconstruction of Oceanic Anoxic Event II*, Geological Society of America, Abs., 36(5), A-198 (2004).
- Meyers, S.R.,** and Sageman, B.B., and Lyons, T.W., *The role of sulfate reduction in organic matter degradation and molybdenum accumulation: Theoretical framework and application to a Cretaceous organic matter burial event*, Geol. Soc. America, Abs, 35(6), A-82 (2003).
- Lyons, T.W., Anbar, A.D., Gill, B.C., **Meyers, S.R.,** Sageman, B.B., Cruse, A.M., Wilde, P., and Scott, C.T., *Molybdenum accumulation in organic-rich sediments and sedimentary rocks*, Geol. Soc. America, Abs, 35(6), A-81 (2003).

- Meyers, S.R.**, and Sageman, B.B., *Analysis of sediment/geochemical accumulation rates and molluscan evolutionary rates during the Cenomanian-Turonian biotic crisis, Western Interior Seaway*, Workshop on Cretaceous Climate and Ocean Dynamics (2002).
- Sageman, B.B, and **Meyers, S.R.**, *Production and Preservation in the Cretaceous Western Interior Sea*, Workshop on Cretaceous Climate and Ocean Dynamics (2002).
- Laurin, J., Sageman, B.B., **Meyers, S.R.**, and Waltham, D.A., *Relative sea level history of the uppermost Cenomanian of southwestern Utah: evidence for Milankovitch-driven eustasy?*, Workshop on Cretaceous Climate and Ocean Dynamics (2002).
- Meyers, S.R.** and Sageman, B.B, *Production and Preservation in the Cretaceous Western Interior Sea*, Gordon Research Conference on Organic Geochemistry (2002).
- Meyers, S.R.**, and Sageman , B.B., and Hollander, D.J., *Orbital time scales, ocean anoxic events, and controls on the accumulation of organic carbon in the Cretaceous Western Interior Seaway*, Geol. Soc. America, Abs, 34(2), A-45 (2002).
- Sageman, B.B., **Meyers, S.R.**, and Hinnov, L.A., *Use of orbital time scale to evaluate molluscan biozones and evolutionary rates during the late Cenomanian-early Turonian, Western Interior Basin (USA): Eos. Trans. AGU, 82(47), Fall Meet. Suppl., Abstract T21D-07 (2001).*
- Meyers, S.R.**, and Sageman, B.B., *Identification and interpretation of sedimentary hiatus using evolutive harmonic analysis: Geological Society of America, Abs., 33(6), A-442 (2001).*
- Meyers, S.R.**, and Sageman, B.B., *Quantitative cyclostratigraphic analysis of Late Cenomanian-Early Turonian deposits of the Cretaceous Western Interior (North America): Geological Society of America, Abs., 32(7), A-145 (2000).*
- Meyers, S.R.**, Sageman, B.B., Hollander, D.J., *Investigation of Milankovitch forcing and OAE II expression in the biomarker record of the Cretaceous Western Interior Seaway*, Geol. Soc. America, Abs., 31(7), A-327 (1999).
- Meyers, S. R.**, B. B. Sageman, L. A. Hinnov, *Determination of changes in sedimentation during OAE II, using evolutionary spectral analysis, Bridge Creek Limestone Member, Western Interior, U. S.:* Geol. Soc. America, Abs., 30(7), A-220 (1998).

Invited Research Seminars (excluding summer schools and professional workshops)

- 2018, University of California-Riverside, Department of Earth Sciences
- 2018, Rice University, Department of Earth, Environmental & Planetary Sciences
- 2017, University of Wisconsin-Madison, Department of Astronomy
- 2017, Université d'Angers, Angers, Laboratoire des Bio-indicateurs actuels et fossiles (France)
- 2017, Yachay Tech University, School of Geological Sciences and Engineering (Ecuador)
- 2017, Victoria University of Wellington (New Zealand), SGESS Seminar
- 2017, Victoria University of Wellington (New Zealand), Antarctic Research Center Seminar
- 2017, "Searching for Tropical Zealandia" symposium, Institute of Geological and Nuclear Science (New Zealand)
- 2016, Columbia Climate Center Lecturer, Columbia University and NASA GISS (3 seminars)
- 2016, Northern Illinois University, Geology & Environmental Geosciences
- 2016, University of Wisconsin-Madison, Department of Atmospheric and Oceanic Sciences
- 2015, Northwestern University, Department of Earth and Planetary Sciences
- 2015, Lamont-Doherty Earth Observatory, Columbia University (2 seminars)
- 2013, University of Utrecht, Department of Earth Sciences, JOINT Seminars
- 2012, University of Kansas, Department of Geology
- 2012, Horizons in Earth Systems, World Universities Network

2011, University of Utrecht, Department of Earth Sciences, JOINT Seminars  
2011, University of Minnesota-Duluth, Department of Geological Sciences  
2010, Northwestern University, Department of Earth and Planetary Sciences  
2009, University of Pittsburgh, Department of Geology and Planetary Science  
2009, University of Wisconsin-Madison, Department of Geology and Geophysics (2 seminars)  
2008, University of North Carolina at Chapel Hill, Department of Geological Sciences  
2007, North Carolina State University, Department of Marine, Earth, and Atmospheric Sciences  
2005, Case Western Reserve University, Department of Geological Sciences (2 seminars)  
2005, University of North Carolina at Chapel Hill, Department of Geological Sciences (2 seminars)  
2005, Purdue University, Department of Earth and Atmospheric Sciences (2 seminars)  
2005, Charles University, Prague, Czech Republic  
2004, Yale University Department of Geology and Geophysics, Global Change Seminar Series  
2004, Yale University, Yale Institute for Biospheric Studies  
2004, Yale University Department of Geology and Geophysics, Global Change Seminar Series

### Grants

Total career funding: **\$3,731,457 USD**  
Career external funding: **\$3,689,539 USD**  
Total external funding at UW-Madison: **\$3,567,551 USD**

### Funded Research Grants/Awards

NSF Integrated Earth Systems: “COLLABORATIVE RESEARCH: ANATOMY OF A GREENHOUSE WORLD: THE EARLY EOCENE IN THE GREEN RIVER BASIN, WYOMING”, Alan Carroll (PI), **Stephen Meyers (Co-PI)**, Bradley Singer (Co-PI), Michael Smith (Co-PI, NAU), Nathan Sheldon (Co-PI, U. Michigan), Benjamin Passy (Co-PI, U. Michigan), Joshua Feinberg (Co-PI, U. Minnesota), Amy Myrbo (Co-PI, U. Minnesota), Ethan Hyland (Co-PI, NCSU), Mark Schmitz (Co-PI, Boise State), Tim Lowenstein (Co-PI, SUNY Binghamton), Jessica Tierney (Co-PI, U. Arizona), July 1, 2018-June 30, 2023, **\$909,866** (UW-Madison portion, total=**\$2,700,539**).

NSF EarthCube: “COLLABORATIVE PROPOSAL: EARTHCUBE INTEGRATION: GEOCHRONOLOGY FRONTIER AT THE LABORATORY-CYBERINFORMATICS INTERFACE”, Bradley Singer (PI), **Stephen Meyers (Co-PI)**, Simon Goring (Co-PI), Shaun Marcott (Co-PI), Shanan Peters (Co-PI), John Williams (Co-PI), September 1, 2017-August 31, 2020, **\$1,449,662**.

NSF Sedimentary Geology and Paleobiology: “CAREER: DECIPHERING THE BEAT OF A TIMELESS RHYTHM – THE FUTURE OF ASTROCHRONOLOGY”, **Stephen Meyers (Sole PI)**, August 1, 2012- July 31, 2019, **\$512,053**.

NSF (multiple programs; a supplement to the CAREER award): “ISOASTRO GEOCHRONOLOGY WORKSHOP: THE INTEGRATION AND INTERCALIBRATION OF RADIOISOTOPIC AND ASTROCHRONOLOGIC TIME SCALES”, **Stephen Meyers (Sole PI)**, May 1, 2014- July 31, 2019, **\$32,043**.

NSF Sedimentary Geology and Paleobiology (a supplement to the CAREER award): “2016 ISOASTRO GEOCHRONOLOGY WORKSHOP: THE INTEGRATION AND INTERCALIBRATION OF RADIOISOTOPIC AND ASTROCHRONOLOGIC TIME SCALES”, **Stephen Meyers (Sole PI)**, March 21, 2016- July 31, 2019, **\$31,976**.

Wisconsin Alumni Research Foundation (WARF) Award: “QUANTITATIVE CYCLOSTRATIGRAPHY AND THE ORBITAL CLOCK: AN EVALUATION OF THE EOCENE GREEN RIVER FORMATION”, **Stephen Meyers (PI)**, July 1, 2012- June 30, 2013, **\$33,969 (declined by PI Meyers)**.

NSF Sedimentary Geology and Paleobiology: “COLLABORATIVE RESEARCH: INTEGRATING RADIOISOTOPIC AND ASTRONOMICAL TIME SCALES FOR THE CRETACEOUS”, Bradley Singer (PI), **Stephen Meyers (Co-PI)**, and Bradley Sageman (Co-PI, Northwestern U.), May 1, 2010-April 30, 2015, **\$424,401 (UW-Madison portion, total=\$505,512)**.

NSF Paleo Perspectives on Climate Change (lead program Marine Geology and Geophysics): “COLLABORATIVE RESEARCH: EVOLUTION OF THE CLIMATE CONTINUUM-LATE PALEOGENE TO PRESENT”, **Stephen Meyers (Lead-PI)** and Linda Hinnov (Co-PI, Johns Hopkins), August 1, 2010-July 31, 2014, **\$207,550 (UW-Madison portion, total=\$240,447)**.

Wisconsin Alumni Research Foundation (WARF) Award: “EVALUATING STOCHASTIC VERSUS DETERMINISTIC CLIMATE PROCESSES DURING THE PAST 36 MILLION YEARS”, **Stephen Meyers (Sole PI)**, July 1, 2011- June 30, 2012, **\$34,418**.

NSF Instrumentation & Facilities: “ACQUISITION OF AN X-RAY FLUORESCENCE SPECTROMETER FOR RESEARCH IN PETROLOGY AND PALEOCLIMATOLOGY”, Allen Glazner (PI) and **Stephen Meyers (Co-PI)**, August 15, 2009- July 31, 2010, **\$121,988**.

IBM Fund Award (UNC Junior Faculty Development Award): “TESTING LINKAGES BETWEEN CLIMATE CHANGE AND SEDIMENTARY BIOGEOCHEMISTRY IN THE GLACIAL/INTERGLACIAL NORTH ATLANTIC”, **Stephen Meyers (Sole PI)**, January 1, 2008- December 31, 2008, **\$7500**.

## **Student Advising**

### **Supervised Graduate Students (\*Sole advisor or \*\*Co-advisor)**

**\*\*Kristin Larkins (M.S., UNC-Chapel Hill Geological Sciences, completed 2009):**

“Cyclic Sedimentation in the Mississippian Pride Shale: Quantitative Paleoenvironmental Analysis of Tidal Rhythmites Using X-Ray Fluorescence Scanning and Advanced Spectral Methods”

[Co-advised with Dr. Lou Bartek, UNC Dept. Geological Sciences]

**\*\*Bo He (M.S., UNC-Chapel Hill Geological Sciences, completed 2010):** “Evaluation of the diagenetic role of iron as a sulfide buffer at Cape Lookout Bight, North Carolina (USA)”

[Lead advisor Meyers; Co-advised with Dr. Marc Alperin, UNC Dept. Marine Sciences]

**\*Dylan Malynn (M.S., UNC-Chapel Hill Geological Sciences, completed 2011):**

“Evaluation of linkages between climate change and sedimentary biogeochemistry in the glacial/interglacial North Atlantic”

**\*Chao Ma (M.S., UW-Madison Geoscience, completed 2012):** “Testing the Astronomical Time Scale for Oceanic Anoxic Event 2, and its Extension into Cenomanian Strata of the Western Interior Basin (U.S.A.)”

- \*Wesley Ingram (Ph.D., UNC-Chapel Hill Marine Sciences, completed 2013): “Late Quaternary Depositional History, Sedimentary Geochemistry, and Organic Carbon Burial at Mississippi Canyon 118: A Deep-sea Site on the Northern Gulf of Mexico Slope Containing a Gas-Hydrate and Cold-Seep Field”
- \*\*Andrew Walters (M.S., UW-Madison Geoscience, completed 2013):  
“Cyclostratigraphic Evaluation of Repetitive Sedimentary Microfacies from the Green River Formation, Utah”  
[Lead advisor Meyers; Co-advised with Dr. Alan Carroll, UW Dept. Geoscience]
- \*Miao Du (M.S., UW-Madison Geoscience, completed 2013): “Comparing Nonlinear Climate Responses to Orbital-Insolation during the early Miocene and Pleistocene: A Bicoherence Study”
- \*\*Wasinee Aswasereelert (Ph.D., UW-Madison Geoscience, completed 2014):  
“Astronomical and Stochastic Influences on Lacustrine and Marine Environments during the Cenozoic: Case Studies from the Green River Formation (Eocene) and the World’s Ocean (Late Paleogene-Present)” [Co-advised with Dr. Alan Carroll, UW Dept. Geoscience]
- \*Chao Ma (Ph.D., UW-Madison Geoscience, completed 2016): “Centennial to Million-year Scale Climate Cycles in the Late Cretaceous Western Interior Seaway: Their Implications for Geochronology, Paleoceanography, and Celestial Mechanics”
- \*\*M’bark Baddouh (Ph.D., UW-Madison Geoscience, completed 2016): “Application of Strontium Isotopes in Paleoclimatology, Paleohydrology and Chemostratigraphy: The Eocene Green River Formation, Wyoming” [Co-advisor; Lead advisor Dr. Alan Carroll, UW Dept. Geoscience]
- \*\*Lindsey Shanks (M.S., UW-Madison Geoscience, completed 2016) “On the Recurrence of Enigmatic Nannoplankton Blooms in the Subtropical South Atlantic during the Early Oligocene” [Co-advised with Dr. Clay Kelly, UW Dept. Geoscience]
- \*\*Andrew Walters (Ph.D. Candidate, UW-Madison Geoscience, ongoing): TBD [Co-advised with Dr. Alan Carroll, UW Dept. Geoscience]
- \*Nicholas Sullivan (Ph.D. Candidate, UW-Madison Geoscience, ongoing): TBD
- \*\*Huaran (Harmony) Liu (Ph.D. Candidate, UW-Madison Atmospheric and Oceanic Sciences, ongoing): TBD [Co-advisor; Lead advisor Dr. Shaun Marcott, UW Dept. Geoscience]
- \*\*Alexandra Villa (M.S. Candidate, UW-Madison Geoscience, ongoing): TBD [Co-advised with Dr. Clay Kelly, UW Dept. Geoscience]

#### Supervised Undergraduate Students

- \*Trevor Nace (B.S. Honors Thesis, UNC-Chapel Hill Geological Sciences, completed 2008): “Origin and Distribution of Organic Matter Derived from The Umpqua, Klamath, and Eel Rivers”
- \*\*Steven Henning (B.S. research project, UW-Madison Geoscience and Geological Engineering, completed 2014): Periodicity analysis of molluscan growth banding [Served as the advisor on record, mentoring both Steven Henning and graduate student Ben Linzmeier, who was the research lead on the project]
- \*\*Daniella Assing (B.S. research project, UW-Madison Geoscience, completed 2016): Stable oxygen and carbon isotope profiles of high-latitude Late Cretaceous bivalves from Seymore Island, Antarctica [Served as the advisor on record, mentoring both



Daniella Assing and graduate student Ben Linzmeier, who was the research lead on the project]

Other M.S. and Ph.D. Committees on which I have served (not Sole or Co-advisor)

**ACTIVE:**

Benjamin Bruck (M.S. Committee, UW-Madison Geoscience)  
Shan Ye (Ph.D. Committee, UW-Madison Geoscience)  
Daniel Segessenman (Ph.D. Committee, UW-Madison Geoscience)  
Brittany Hupp (Ph.D. Committee, UW-Madison Geoscience)  
Soo Hyun Kim Hartman (Ph.D. committee, UW-Madison Botany)  
Scott Hartman (Ph.D. committee, UW-Madison Geoscience)  
Adam Denny (Ph.D. committee, UW-Madison Geoscience)  
Sifan Gu (Ph.D. Committee, UW-Madison Atmospheric and Oceanic Sciences)  
Elizabeth Ceperley (Ph.D. committee, UW-Madison Geoscience)  
Zhizhang Shen (Ph.D. committee, UW-Madison Geoscience)

**PAST:**

Breana M. Hashman (M.S. committee, UW-Madison Geoscience)  
Jiang Zhu (Ph.D. committee, UW-Madison Atmospheric and Oceanic Sciences)  
Alex P. Hammond (M.S. committee, UW-Madison Geoscience)  
Ben D. Barnes (M.S. committee, UW-Madison Geoscience)  
Sharon McMullen (Ph.D. committee, UW-Madison Geoscience)  
Jody Wycech (Ph.D. committee, UW-Madison Geoscience)  
Michael Johnson (Ph.D. committee, UW-Madison Geoscience)  
Robert P. Muehlbauer (M.S. committee, UW-Madison Geoscience)  
Deborah Rook (Ph.D. committee, UW-Madison Geoscience)  
Kelsey Winsor (M.S. & Ph.D. committee, UW-Madison Geoscience)  
David De Vleeschouwer (Ph.D. defense committee, Vrije Universiteit Brussel)  
Christian Zeeden (Ph.D. defense committee, University of Utrecht)  
Tamara Misner (Ph.D. committee, Univ. of Pittsburgh)  
Tim Foltz (M.S. committee, UW-Madison Geoscience)  
Eric Williams (Ph.D. committee, UW-Madison Geoscience)  
David Ullman (Ph.D. committee, UW-Madison Geoscience)  
Amalia Doebbert (Ph.D. committee, UW-Madison Geoscience)  
Daniel Murray (M.S. committee, UW-Madison Geoscience)  
Caitlin Keating-Bitonti (M.S. committee, UW-Madison Geoscience)  
Sarah Siewert (M.S. committee, UW-Madison Geoscience)  
James Ludois (Ph.D. committee, UW-Madison Geoscience)  
Ian Orland (Ph.D. committee, UW-Madison Geoscience)  
Raj Saha (Ph.D. committee, UNC Physics and Astronomy)  
Ayumi Shimokawa (M.S. committee, UNC Geological Sciences)  
Russ Mapes (Ph.D. committee, UNC Geological Sciences)  
Karen Bossenbroek (M.S. committee, UNC Geological Sciences)  
Lauren Boyd (M.S. committee, UNC Geological Sciences)  
Laura Callihan (M.S. committee, UNC Geological Sciences)  
Emily Foley (M.S. committee, UNC Geological Sciences)  
Joel Hudley (Ph.D. committee, UNC Geological Sciences)  
Audrey Loth (M.S. committee, UNC Geological Sciences)  
Michael Lester (M.S. committee, UNC Geological Sciences)  
Trent McDowell (Ph.D. committee, UNC Geological Sciences)  
Michael Mobilia (M.S., UNC Geological Sciences)  
Jennifer Perry (M.S. committee, UNC Geological Sciences)  
Jessica Rosenberg (M.S. committee, UNC Geological Sciences)

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Tyson Smith (M.S. committee, UNC Geological Sciences)  
Pres Viator (M.S. committee, UNC Geological Sciences)  
Ting Wang (M.S. committee, UNC Geological Sciences)  
Jessica Wiggins (M.S. committee, UNC Geological Sciences)  
Ming Yang (Ph.D. committee, UNC Geological Sciences)

### Teaching Activities

#### Teaching at the University of Wisconsin at Madison:

Fall 2018	GEOSCI 875, <i>Advanced Topics in Geology, Rhythms in Global Climate</i> , 3 credits, 9 students (+ 5 auditing students) GEOSCI 875, <i>Advanced Topics in Geology, Sedimentary Points of Light</i> , 1 credit, 11 students (with A. Carroll, S. Peters)
Spring 2018	GEOSCI 100, sec 001, <i>General Geology</i> , 3 credits, 316 students GEOSCI 875, <i>Advanced Topics in Geology, Sedimentary Points of Light</i> , 1 credit, 7 students (with A. Carroll, S. Peters, C. Kelly)
Fall 2017	GEOSCI 732, <i>Geochemistry of Sediments</i> , 3 credits, 8 students GEOSCI 875, <i>Advanced Topics in Geology, Sedimentary Points of Light</i> , 1 credit, 6 students (with A. Carroll, S. Peters, C. Kelly)
Fall 2016/Spring 2017	[SABBATICAL LEAVE]
Spring 2016	GEOSCI 100, sec 001, <i>General Geology</i> , 3 credits, 145 students GEOSCI 875, <i>Advanced Topics in Geology, Sedimentary Points of Light</i> , 1 credit, 7 students (with A. Carroll, S. Peters)
Fall 2015	GEOSCI 732, <i>Geochemistry of Sediments</i> , 3 credits, 16 students (+ 4 auditing participants including faculty and post-docs) GEOSCI 875, <i>Advanced Topics in Geology, Sedimentary Points of Light</i> , 1 credit, 8 students (with A. Carroll, S. Peters)
Spring 2015	GEOSCI 100, sec 001, <i>General Geology</i> , 3 credits, 144 students GEOSCI 875, <i>Advanced Topics in Geology, Sedimentary Points of Light</i> , 1 credit, 7 students (with A. Carroll, C. Kelly, D. Geary, S. Peters)
Fall 2014	GEOSCI 875, <i>Advanced Topics in Geology, Rhythms in Global Climate</i> , 1-3 credits, 5 students GEOSCI 875, <i>Advanced Topics in Geology, Sedimentary Points of Light</i> , 1 credit, 9 students (with A. Carroll, C. Kelly, D. Geary, S. Peters)
Spring 2014	GEOSCI 100, sec 001, <i>General Geology</i> , 3 credits, 142 students GEOSCI 875, sec 003, <i>Advanced Topics in Geology, Sedimentary Points of Light</i> , 1 credit, 8 students (with A. Carroll, C. Kelly, D. Geary)
Fall 2013	GEOSCI 430, sec 001, <i>Sedimentology &amp; Stratigraphy</i> , 3 credits, 14 students GEOSCI 431, sec 001, <i>Sedimentology &amp; Stratigraphy Lab</i> , 1 credit, 32 students

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	GEOSCI 875, sec 005, <i>Advanced Topics in Geology, Sedimentary Points of Light</i> , 1 credit, 8 students (with A. Carroll, C. Kelly, D. Geary)
Spring 2013	GEOSCI 100, sec 001, <i>General Geology</i> , 3 credits, 143 students GEOSCI 875, <i>Advanced Topics in Geology, Sedimentary Points of Light</i> , 1 credit, 12 students
Fall 2012	GEOSCI 732, <i>Geochemistry of Sediments</i> , 3 credits, 10 students (+ 1 auditing faculty member)
Spring 2012	GEOSCI 100, sec 001, <i>General Geology</i> , 3 credits, 115 students GEOSCI 875, <i>Advanced Topics in Geology, Sedimentary Points of Light</i> , 1 credit, 10 students
Fall 2011	GEOSCI 875, <i>Advanced Topics in Geology, Rhythms in Global Climate</i> , 3 credits, 12 students
Spring 2011	GEOSCI 100, sec 001 and 002, <i>General Geology</i> , 3 credits, 271 students, co-taught with B. Singer
Fall 2010	GEOSCI 732, <i>Geochemistry of Sediments</i> , 3 credits, 9 students GEOSCI 875, <i>Advanced Topics in Geology, Chronostratigraphy</i> , 2 credits, 9 students, co-taught with B. Singer
Spring 2010	GEOSCI 100, sec 001 and 002, <i>General Geology</i> , 3 credits, 268 students, co-taught with B. Singer

Teaching at the University of North Carolina at Chapel Hill:

Course numbers in parenthesis represent temporary designations

Spring 2009	GEOL 101, <i>Introductory Physical Geology</i> , 3 credits, 132 students GEOL 202, <i>Earth Systems History</i> , 3 credits, 67 students
Fall 2008	GEOL 513 (512), <i>Sedimentary Geochemistry</i> , 3 credits, 14 students
Fall 2008-Spring 2009	Faculty Supervisor for Teaching Assistants (equivalent to 1 course)
Spring 2008	[UNC Research and Study Leave]
Fall 2007	GEOL 507, <i>Rhythms in Global Climate</i> , 3 credits, 17 students
Spring 2007	GEOL 202, <i>Earth Systems History</i> , 3 credits, 19 students
Fall 2006	GEOL 513 (512), <i>Sedimentary Geochemistry</i> , 3 credits, 9 students
Spring 2006	GEOL 507 (199), <i>Rhythms in Global Climate</i> , 3 credits, 2 students
Fall 2006-Spring 2007	Faculty Supervisor for Teaching Assistants (equivalent to 1 course)

Teaching at Professional Workshops and Summer Schools:

- 2018 **"Urbino Summer School in Paleoclimatology"**. *Co-director of the summer school. Lectures on time series analysis, cyclostratigraphy and orbital tuning, field work. [July 10-27; University of Urbino, Urbino, Italy]*
- 2017 **"Urbino Summer School in Paleoclimatology"**. *Co-director of the summer school. Lectures on time series analysis, cyclostratigraphy and orbital tuning, field work. [July 12-28; University of Urbino, Urbino, Italy]*
- 2016 **"Revealing Your Hidden Core with X-ray Fluorescence Scanning: Lessons from a Decade of Scanning"**. *Primary Lecturer for this one-day workshop held at Lamont Doherty Earth Observatory [December 2016, Columbia University]*
- 2016 **"The Construction of High-precision Astronomically-calibrated Time Scales: A Short Course and Workshop with Applications in R"**. *Creator, organizer, and lecturer for this four-day workshop held at Lamont Doherty Earth Observatory [October 2016, Columbia University]*
- 2016 **"Urbino Summer School in Paleoclimatology"**. *Lectures on time series analysis, cyclostratigraphy and orbital tuning. [July 13-29; University of Urbino, Urbino, Italy]*
- 2016 **"IsoAstro Geochronology Workshop: The Integration and Intercalibration of radioisotopic and astronomical time scales"**. *Creator, organizer, and lecturer for NSF sponsored workshop and short course, co-convened with B. Singer and M. Schmitz [August 15-20, 2016, Boise State University]*
- 2016 **"A Short Course on the Construction of High-precision Astronomically-calibrated Time Scales"**. *Astrochronology workshop associated with the International Geoscience Programme Project 591 - Closing Meeting [July 8, 2016, Ghent University, Belgium]*
- 2015 **"Urbino Summer School in Paleoclimatology"**. *Lectures on time series analysis, cyclostratigraphy and orbital tuning, fieldwork. [July 15-31; University of Urbino, Urbino, Italy]*
- 2015 **"The Construction of High-precision Astronomically-calibrated Time Scales: A Short Course and Workshop with Applications in R"**. *Creator, organizer, and lecturer for this four-day workshop held at Victoria University of Wellington, NZ [March 30-April 2, 2015]*
- 2014 **"IsoAstro Geochronology Workshop: The Integration and Intercalibration of radioisotopic and astronomical time scales"**. *Creator, organizer, and lecturer for NSF sponsored workshop and short course, co-convened with B. Singer and M. Schmitz [August 18-23, 2014, UW-Madison]*
- 2014 **"Urbino Summer School in Paleoclimatology"**. *Lectures on time series analysis, cyclostratigraphy and orbital tuning, fieldwork. [July 9-25; University of Urbino, Urbino, Italy]*
- 2013 European Consortium for Ocean Research Drilling (ECORD) Summer School: **"Deep-Sea Sediments: From Stratigraphy to Age Models"**. *Lectures on time series analysis, cyclostratigraphy and orbital tuning. [September 9-20, 2013; MARUM, University of Bremen, Bremen, Germany]*

## Other Professional Service

### Refereeing, Editing and Reviewing for Professional Scientific Journals

- American Journal of Science
- Basin Research
- Biogeosciences
- Chemical Geology
- Climate of the Past
- Cretaceous Research
- Dynamics and Statistics of the Climate System
- Earth and Planetary Science Letters
- Earth Science Reviews
- Earth System Dynamics
- Geochemistry, Geophysics, Geosystems
- Geological Magazine
- Geology
- GSA Bulletin
- International Journal of Climatology
- Journal of Sedimentary Research
- Nature
- Nature Geoscience
- Nature Communications
- Newsletters on Stratigraphy
- Palaeogeography, Palaeoclimatology, Palaeoecology
- Paleoceanography
- Proceedings of the National Academy of Sciences of the United States of America
- Terra Nova

### Scientific Panels/Conference Sessions

- Invited Panelist for Antioch College 2011 Alumni Reunion “Science & Invention” Panel, with Nobel Laureate Dr. Mario Capecchi (Univ. of Utah), Dr. Michael Barnett (Lawrence Berkeley), and Dr. Ellen Fiss (Roche Molecular Systems) [June 17, 2011; Antioch College, Yellow Springs, OH]
- Co-convener of session at 2013 Annual GSA meeting “T258. The Pulse of the Earth: Episodic and Periodic Events on Timescales of  $\geq 10$  million Years”, with K. Condie and M. Brown.
- Co-convener of session at 2013 Fall AGU meeting “GP41E. Recent Developments in Geochronology, Magnetostratigraphy, and Scientific Drilling: Reducing Uncertainty in the Geologic Time Scale”, with L. Jovane, K. Kodama, and T. Yamazaki.
- Co-convener of session at 2015 GSA North-Central Section Meeting “T3. Quantitative Approaches in Stratigraphy and Paleontology: Where Are We Going, and How Will We Get There?”, with S. Peters.
- Co-convener of session at 2016 EGU General Assembly “SSP2.4. The Need for Integrated Stratigraphy – Recent advances in cyclostratigraphy, astrochronology, radioisotopic dating and age modelling”, with M.R. Petrizzo, W. Piller, U. Schaltegger, J. Zalasiewicz, F. Hilgen, L. Lourens, and D. Condon.

## Outreach

- **“Deep-Time Travelers, Future Climates, and why Science needs YOU”**: PEOPLE Program lecturer [July 8, 2011; July 11, 2013; June 26-27, 2014; June 25-26, 2015; UW-Madison] website: <http://www.peopleprogram.wisc.edu>
- **“Telling Time with a Rock Clock”**: Spring 2014 UW-Madison Geology Museum Open House Talk [April 5, 2014]
- **“The Dr. Time Project”**: Outreach project to introduce elementary school students to the concept of deep-time and the history of our planet. Conducted at Cottonwood School (Greenpoint, Brooklyn) in Fall 2016 and Wingra School (Madison, WI) in Fall 2017.
- **“Sunflower Days”**: Outreach project in collaboration with the UW-Madison Geology Museum (Brooke Norsted, project lead), focusing on geological history and astrochronology outreach for residents of southern Wisconsin. Conducted in Fall 2017.
- **“The Evolution of our Solar System”**: Outreach event to introduce elementary school students to the science behind the formation of our Solar System. Premiered at Wingra School (Madison, WI) on May 3, 2018.

## Service to Grant Funding Agencies (NSF, ESF and ACS)

- **NSF Science, Engineering and Education for Sustainability Workshop**: Convened workshop on “Natural and Engineered Carbon Sequestration” (October 7-8, 2011), with co-conveners Brad Sageman (Northwestern University), Catherine Peters (Princeton University) and John Holbrook (Texas Christian University). The purpose of this workshop was to develop a strategic plan to help guide funding for the SEES program (Science, Engineering and Education for Sustainability). The workshop focused on two interrelated avenues of research relevant to the Earth’s natural and human-influenced carbon cycle and its role in climate change: (1) studies of the natural carbon cycle (so we can calibrate and predict levels of naturally sequestered CO<sub>2</sub> and potentially enhance these natural avenues of sequestration), and (2) studies of the engineered carbon cycle (mechanical carbon capture and sequestration as a means to mitigate further increases in *p*CO<sub>2</sub>). In both cases, a foundation of knowledge about sedimentary systems and their carbon storage capacities is a high priority. The workshop assembled researchers working on these two distinctive aspects of the carbon cycle to help shape funding directions for the SEES program.
- **EarthCube domain end-user workshop: Bringing Geochronology into the EarthCube framework**: Member of organizing committee (topic of Astrochronology) for this NSF workshop, held October 1-3, 2013 at UW-Madison. Lead conveners were Prof. Bradley Singer (UW-Madison) and Prof. Shanan Peters (UW-Madison).
- **European Science Foundation workshop: “Exploring the Cretaceous world: data and numerical models at work to fill gaps”**: Invited participant for this EARTHTIME-EU related workshop focused on exploring key research problems relevant to the Cretaceous, with the goal of producing a new Innovative Training Network (ITN) Program. Held Oct. 2-4, 2014 at the Institute for Marine Coastal Environment of the National Research Council, Sicily.
- **EARTHTIME 2.0 Workshop**: Invited speaker (topic: astrochronology) and participant for this workshop to explore the next phase of EARTHTIME, held April 16-17, 2016 at the University of Vienna, Austria.

- New Directions for the EARTHTIME Community: Invited speaker (topic: astrochronology) and participant for this workshop to explore the next phase of EARTHTIME, held September 28-30, 2016 at the United States Geological Survey in Denver, Colorado.
- EarthRates Research Coordination Network WORKSHOP: Participant in this NSF workshop, developing scientific goals and implementation strategies for the EarthRates community, held November 10-12, 2017 at the University of Minnesota.
- Grant Refereeing
  - NSF Sedimentary Geology and Paleobiology Program
  - NSF Geobiology and Low-Temperature Geochemistry Program
  - NSF Marine Geology and Geophysics Program
  - NSF Chemical Oceanography Program
  - NSF OCE-Mathematical Geosciences Program
  - NSF OCE-Major Research Instrumentation
  - NSF EAR-Global Change Program
  - NSF Geoinformatics Program
  - NSF Instrumentation & Facilities Program
  - Petroleum Research Fund (American Chemical Society)

#### Software

- Development of software for paleoclimate signal analysis, cyclostratigraphy, and astrochronology, provided free of charge to the greater scientific community (<http://www.geology.wisc.edu/~smeyers/software.html>). This includes the software “Astrochron: A Computational Tool for Astrochronology”, which is used in numerous short courses, summer schools, and workshops.

#### UW-Madison Committee Service

##### ACTIVE

- Director of Graduate Studies, Department of Geoscience (Fall 2017-present)
- Executive Council (“Chair’s Cabinet”), Department of Geoscience (Fall 2017-present)
- Graduate Studies Committee, Department of Geoscience (Fall 2012-present)
- University General Education Committee (Fall 2017-present)

##### PAST

- UW-Madison Faculty Senate (Fall 2015-Spring 2016)
- Web Committee, Department of Geoscience (Fall 2012-Spring 2016)
- Undergraduate Advising Committee, Department of Geoscience (Spring 2010-2014)

#### UNC-Chapel Hill Committee Service

- Graduate Admission Committee, Department of Geological Sciences (Spring 2006-Spring 2009)
- Analytical Facilities Committee, Department of Geological Sciences (Spring 2006-Spring 2009)
- Geological Sciences Colloquium Series Organizer (Fall 2006-Fall 2007)
- Organizing Committee of the Annual Carolina Climate Change Seminar (Spring 2006-Spring 2009)



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- Library Committee, Department of Geological Sciences (Spring 2006-Spring 2009)
- Executive Committee, Department of Geological Sciences (Fall 2007-Spring 2009)

### **Professional Membership**

- American Geophysical Union
- European Geosciences Union
- Geological Society of America