

CURRICULUM VITAE

Matthew M. Jones, PhD

Postdoctoral Fellow • Smithsonian Institution • Washington, D.C., USA

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POSITIONS HELD

Shipboard petrophysics & borehole logging scientist, Int'l Ocean Discovery Program (IODP), Expedition 392 Agulhas Plateau	Spring 2022
Peter Buck Fellow, Smithsonian National Museum of Natural History	Aug. 2021-
Postdoctoral Fellow, University of Michigan	2019 - 2021
Shipboard Scientist, IODP Expedition 369, offshore Australia	Fall 2017
Research & teaching assistantships, Northwestern University, Evanston, IL	2012 - 2018
Junior staff geologist, H2H Associates, Troy, NY	2010 - 2012

EDUCATION

Ph.D. Earth and Planetary Sciences, Northwestern University	2018
Dissertation: "Stratigraphic and geochemical investigations of oceanic anoxic events and sea level trends in the greenhouse Late Cretaceous" (Advisor: Bradley B. Sageman)	
B.A. (hons.) Earth Science University of New Hampshire	2010
Senior thesis advisor: Will Clyde	

RESEARCH THEMES

- Sedimentary geochemistry, stratigraphy, paleobiology, and research drilling
- Mesozoic paleoclimate, paleoceanography, macroinvertebrates, and geochemical cycles
- Regional expertise: Western Interior U.S. (Great Plains/Rocky Mtns.), Songliao Basin China, tropical N. Atlantic, Great Australian Bight, and Mentelle Basin

PEER-REVIEWED PUBLICATIONS

- (16) Jones, M.M., Petersen, S.V., Curley, A.N., 2022, A tropically warm mid-Cretaceous North American Western Interior Seaway, *Geology*, v. 50, <https://doi.org/10.1130/G49998.1>
- (15) Jones, M.M., Sageman, B.B., Selby, D., Jicha, B.R., Singer, B.S., Titus, A.L., 2021, Regional chronostratigraphic synthesis of the Cenomanian-Turonian OAE2 interval Western Interior Basin (USA): New Re-Os chemostratigraphy and ⁴⁰Ar/³⁹Ar geochronology, *GSA Bulletin*, v. 133, no. 5-6, p. 1090-1104 <https://doi.org/10.1130/B35594.1>
- (14) Huang, H., Gao, Y., Ma, C., Jones, M.M., Zeeden, C., Ibarra, D.E., Wu, H., Wang, C., 2021, Organic carbon burial in paced by a ~173 kyr obliquity cycle in middle to high latitudes, *Science Advance*, v. 7, no. 28, <https://doi.org/10.1126/sciadv.abf9489>
- (13) Bryant, R., Leckie, R.M., Bralower, T., Jones, M.M., Sageman, B.B., 2021, Microfossil and geochemical records reveal high-productivity paleoenvironments in the Cretaceous Western Interior Seaway during Oceanic Anoxic Event 2, *Palaeo3*, v. 584, 110679. <https://doi.org/10.1016/j.palaeo.2021.110679>
- (12) Lee, E.Y., Tejada, M.L.G., Song, I., Chun, S.S., et al. (including Jones, M.M.), 2021, Petrophysical property modifications by alteration in a volcanic sequence at IODP Site U1513, Naturaliste Plateau, *JGR: Solid Earth*, v. 126, no. 10, <https://doi.org/10.1029/2020JB021061>
- (11) Huang, H., Gao, Y., Jones, M.M., Tao, H., Carroll, A.R., Wu, H., Wang, C., 2020, Astro-nomical forcing of Middle Permian terrestrial climate recorded in a large paleolake in northwestern China, *Palaeo3*, v. 550, 109735 <https://doi.org/10.1016/j.palaeo.2020.109735>

- (10) Wainman, C.C., Tagliaro, G., **Jones, M.M.**, Charles, A.J., Hall, T., White, L.T., Bogus, K.A., Wolfgring, E., O'Connor, L.K., McCabe, P.J., Holford, S.P., 2020, The sedimentological evolution and petroleum potential of a very thick Upper Cretaceous mudstone succession from the southern high latitudes - a case study from the Bight Basin, Australia, *Marine and Petroleum Geology*, v. 118, 104441, <https://doi.org/10.1016/j.marpetgeo.2020.104441>.
- (9) Boudinot, F.G., Dildar, N., Parker, A.L., Leckie, R.M., **Jones, M.M.**, Sageman, B.B., Bralower, T.J., Sepúlveda, J., 2020, Neritic ecosystem response to Oceanic Anoxic Event 2 in the Cretaceous Western Interior Seaway, USA, *Palaeo3*, v. 546, 109673 <https://doi.org/10.1016/j.palaeo.2020.109673>.
- (8) MacLeod, K.G., White, L.T., Wainman C.C., Martinez, M., **Jones, M.M.**, Batenburg, S.J., Riquier, L., et al., 2020, Late Cretaceous stratigraphy and paleoceanographic evolution in the Great Australian Bight Basin based on results from IODP Site U1512, *Gondwana Research*, v. 83, p. 80-95 <https://doi.org/10.1016/j.gr.2020.01.009>.
- (7) Wainman, C.C., Borissova, I., Harry, D.L., Hobbs, R.W., Mantle, D.J., Maritati, A., Lee, E.Y., and **Exp. 369 Scientists (including M.M. Jones)**, 2020, Evidence for non-marine Jurassic to earliest Cretaceous strata deposited in the pre-breakup of the Mentelle Basin, southwestern Australia, *Aust. J. Earth Sci.*, v. 67, no. 1, p. 89-105 <https://doi.org/10.1080/08120099.2019.1627581>
- (6) Lee, E.Y., Wolfgring, E., Tejada, M.L.G., Harry, D.H., et al. (**including M.M. Jones**), 2020, Early Cretaceous subsidence of the Naturaliste Plateau defined by a new record of volcaniclastic-rich sequence at IODP Site U1513, *Gondwana Research*, v. 82, p. 1-11, <https://doi.org/10.1016/j.gr.2019.12.007>.
- (5) **Jones, M.M.**, Sageman B.B., Oakes R., Bralower T.J., Leckie R.M., Parker A.L., Sepúlveda, J., Fortiz, V., 2019, Astronomical pacing of relative sea level through Oceanic Anoxic Event 2: Preliminary studies of the expanded SH#1 Core, Utah, USA *GSA Bulletin*, v. 131, no. 9-10, pp. 1702-1722 <https://doi.org/10.1130/B32057.1>
- (4) **Jones M.M.**, Ibarra D.E., Gao Y., Sageman B.B., Selby D., Chamberlain C.P., Graham S.A., 2018, Evaluating Late Cretaceous OAEs and the influence of marine incursions on organic carbon burial in an expansive East Asian paleo-lake, *Earth and Planetary Science Letters*, v. 484, pp. 41-52 <https://doi.org/10.1016/j.epsl.2017.11.046>
- (3) **Jones, M.M.**, Sageman, B.B., Meyers, S.R., 2018, Turonian sea level and paleoclimatic events in astronomically-tuned records of the tropical Atlantic and Western Interior Seaway, *Paleoceanography and Paleoclimatology*, v. 33, pp. 470-492, <https://doi.org/10.1029/2017PA003158>.
- (2) Caves, J.K., Moragne, D.Y., Ibarra, D.E., Bayshashov, B.U., Gao, Y., **Jones, M.M.**, Zhmanagara, A., Arzhannikova, A.V., Arzhannikov, S.G., Chamberlain, C.P., 2016, The Neogene de-greening of Central Asia, *Geology*, v.44, p.887-890 <http://dx.doi.org/10.1130/G38267.1>
- (1) Clyde, W.C., Bowring, S.A., Johnson, K.R., Ramezani, J., **Jones, M.M.**, 2016, Direct high-precision U-Pb geochronology of the end-Cretaceous extinction and calibration of Paleocene astronomical timescales, *Earth and Planetary Science Letters*, v. 452, pp. 272-280 <https://doi.org/10.1016/j.epsl.2016.07.041>.

PUBLICATIONS (IN REVIEW)

- (1) O'Hara, H. E., Petersen, S.V., Vellekoop, J., **Jones, M.M.**, Scholz, S.R. (**in review**), Clumped-isotope-derived climate trends leading up to the end-Cretaceous mass extinction in northwest Europe, *Climate of the Past* [pre-print] <https://doi.org/10.5194/cp-2021-104>
- (2) **Jones, M.M.**, Sageman, B.B., Selby, D., Jacobson, A.D., Batenburg, S., Riquier, L., MacLeod, K.G., Huber, B.T., Bogus, K.A., Tejada, M.L.G., Kuroda, J., Hobbs, R.W. (**submitted**), Mid-Cretaceous ocean acidification linked to massive volcanism, *Nature Geoscience*

- (3) Fortiz, V., et al. **(including Jones, M.M.), (in revision)**, Paleooceanographic Significance of Calcareous Nannofossil Assemblages in the Tropic Shale Formation of Utah during Oceanic Anoxic Event 2 at the Cenomanian-Turonian Boundary, *Palaeo3*

TECHNICAL REPORTS

- Uenzelmann-Neben, G., Bohaty, S.M., Childress, L.B., & **Expedition 392 Scientists (including M.M. Jones)**, 2022 (in moratorium). *Expedition 392 Preliminary Report: Agulhas Plateau Cretaceous Climate*. Proceedings of the International Ocean Discovery Program, 392: College Station, TX
- Uenzelmann-Neben, G., Bohaty, S.M., Childress, L.B., & **Expedition 392 Scientists (including M.M. Jones)**, 2023 (in moratorium). *Agulhas Plateau Cretaceous Climate*. Proceedings of the International Ocean Discovery Program, 392: College Station, TX
- Huber, B.T., Hobbs, R.W., Bogus, K.A., and the **Expedition 369 Scientists (including M.M. Jones)**, 2018. *Expedition 369 Preliminary Report: Australia Cretaceous Climate and Tectonics*. Proceedings of the International Ocean Discovery Program, 369: College Station, TX, <https://doi.org/10.14379/iodp.pr.369.2018>
- Huber, B.T., Hobbs, R.W., Bogus, K.A., and the **Expedition 369 Scientists (including M.M. Jones)**, 2019. *Australia Cretaceous Climate and Tectonics*. Proceedings of the International Ocean Discovery Program, 369: College Station, TX, <https://doi.org/10.14379/iodp.proc.369.2019>

INVITED SEMINARS

- Geological Society of Washington, D.C., May 2022
- University of São Paulo (virtual), November 2021
- Oklahoma State University, Geology Colloquium (virtual), March 2021
- University of Houston, Houston, Texas, January 2020
- Czech Academy of Science, Prague, Czech Republic, October 2019

GRANTS AND FUNDING

IODP Expedition 392 shipboard stipend and research support- ~\$40k	2022-2024
Smithsonian Institution NMNH Peter Buck Postdoctoral Fellowship-\$128k	2021-2023
U. Michigan Postdoctoral Association, Conference Travel Award-\$0.5k	2019
IODP Post-expedition Award-\$18k	2017-2019
Support to present at AGU Fall Meeting Session 23380, IGCP-\$1k	2017
Shipboard Scientist Stipend, IODP-USSSP-\$8k	2017
American Association of Petroleum Geologists (AAPG) Foundation, Alexander and Geraldine Wanek Memorial Grant-\$2.5k	2015
Gulf Coast Association of Geologic Societies, Student Grant-\$2k-	2013
AAPG Foundation, The Institut Francais du Petrole Named Grant-\$2.5k	2013
Geologic Society of America (GSA), Graduate Research Grant-\$1.8k	2013
University of New Hampshire, Summer Undergraduate Res. Fellowship	2008
<i>total geoscience funding to-date: \$204,500</i>	

HONORS AND AWARDS

Horace A. Scott Award, in recognition of outstanding graduate research, Northwestern University, Dept. Earth & Planetary Sciences	2018
Marion Sloss Award for Outstanding Graduate Teaching Assistant, Northwestern University, Dept. Earth & Planetary Sciences	2014, 2017
Presidential Scholarship, University of New Hampshire, high merit	2006-2010

TEACHING EXPERIENCE

Teaching assistantships (Northwestern University)	
EARTH 201: Earth Systems Revealed, physical geology	Spring 2014,'15,'16,'17
EARTH 101: Earth Science for the 21 st Century	Winter 2014 & Fall 2015
EARTH 106: The Ocean, Atmosphere, & Our Climate	Spring 2013
Guest lecturer (Michigan) EARTH 222: Introductory Oceanography	Fall 2019

GEOSCIENCE CAREER DEVELOPMENT SHORT-COURSES

Science Education Resource Center (SERC): Preparing for an Academic Career Workshop, Albuquerque, NM	2017
National Assn. of Geoscience Teachers (NAGT) Earth Educators Rendezvous: Active teaching methods workshop, Albuquerque, NM	2017
IODP: Short Course on Shipboard Sedimentology, College Station, TX	2016
IsoAstro: Adv. geochronology & astrochronology workshop, Madison, WI	2014

WORKFORCE EXPERIENCE

- Jr. staff geologist, H2H Associates, LLC., Mining & geologic consultants, Troy, NY 2010-2012
- Assisted aggregate, industrial mineral, and limestone mine planning, permitting, and maintenance operations at ~20 major quarries across northeastern US
 - Public records management for remediation activities at Formerly Used Defense Sites
 - High-precision ground-based LIDAR surveys (laser-scanning) of quarry cuts and inventories

FIELDWORK EXPERIENCE

Shipboard IODP (Agulhas Plateau/Transkei Basin, offshore S. Africa)	Feb.-Apr. 2022
Bohemian Basin fieldtrip (Czech Republic)	Fall 2019
Shipboard IODP Expedition 369 (Naturaliste Plateau/Australian Bight)	Fall 2017
Tununk Shale and Ferron Sandstone (central Utah)	Spring 2017
Teaching assistant - Northwestern Univ. Baraboo, WI Field Trip	Spring 2013-'17
Pueblo State Park GSA field trip (central Colorado)	Fall 2016
Northwestern Univ. Sed. Geology Field Course (Utah-Colorado)	Spring 2015
Songliao Basin <i>Cretaceous</i> & Inner Mongolia <i>Neogene</i> (China)	Summer 2014
SH#1 Core drilling, NSF-ELT project (Grand Staircase Nat. Mon. Utah)	Summer 2014
Northwestern Univ. petrology field trip (upper peninsula Michigan)	Spring 2014
Northwestern Univ. EPS Yucatan trip (Mexico)	Spring 2013, '15
Six-week N.C. Geology Field Course (northern New Mexico)	Spring 2012
Quarry geology – see workforce exp. (northeast U.S.)	2010-2012
Magnetostratigraphy field assistant to R. LeCain, Hell Creek Formation (Montana)	Summer 2008
Paleogene Hell Creek Fm., Bighorn Basin, Denver Basin (MT WY CO)	Summer 2007

WEB-BASED PROFILES

Google Scholar: <https://scholar.google.com/citations?user=Lp1CiBUAAAAJ&hl=en>
ORCID: <https://orcid.org/0000-0001-5996-1728>
Website: <https://sites.google.com/umich.edu/mattjones-sedgeo>
ResearchGate: https://www.researchgate.net/profile/Matthew_Jones76

PROFESSIONAL MEMBERSHIPS

Geoscience societies:

Geologic Society of America (GSA), Member, 2009- ; American Geophysical Union, Member, 2015- ; Geochemical Society, Member, 2018- ; Geological Society of Washington, 2022- ;

PROFESSIONAL SERVICE

Peer reviewer: *EOS (AGU)*, *Palaeo3*, *Newsletters on Stratigraphy*, *Mar. Petroleum Geol.*, *Scientific Reports*, *Geochem geophys.*, *Geology*

COMMUNITY OUTREACH

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|---|-----------|
| Shipboard broadcaster, Presented the <i>Joides Resolution</i> research vessel and IODP Expedition 369 science mission to middle schoolers visiting the Smithsonian Museum | 2017 |
| Volunteer scientist, Youth Arts & Science Summer Camp (city of Evanston, IL) rock/mineral collections and elementary introduction to Earth history (ages 6-12) | 2016 |
| Speaker, Resilient Futures Summit: Institute for Sustainability and Energy at Northwestern University, Evanston, IL, 2014 | 2014 |
| Volunteer, Project EXCITE: engaging local Chicagoland schoolchildren in geoscience lessons | 2012-2014 |

ANALYTICAL INSTRUMENT EXPERIENCE

- Dual inlet and continuous flow isotope ratio mass spectrometry (IRMS) and peripherals
- Thermo Delta V Plus Mass Spectrometer, MAT 253 Plus, Nu Perspective, Costech ECS4010 Elemental Analyzer, & Thermo Gasbench II
- UIC Carbon Coulometer - TOC, carbonate content measurements
- Thermal ionization mass spectrometry (TIMS) & clean lab chemistry for calcium isotope and rhenium-osmium geochemistry
- Shipboard rock physical properties (natural gamma ray, mag. sus., density, etc.)
- X-ray Fluorescence (XRF) core scanning – Semi-quantitative elemental contents
- Paleomagnetism laboratory – AF & thermal demagnetization procedures for analysis on HSM 2 SQUID-based spinner magnetometer (undergraduate thesis)

RELEVANT GRADUATE COURSEWORK

Geosciences & Civil Engineering – Northwestern University (GPA 3.95):

Sedimentary Geology, Structural Geology, Radiogenic Isotope Geochemistry, Sedimentary Petrology, Adv. Topics in Geochemistry Seminar, Global Tectonics, Petrology, Organic Geochemistry, Aqueous Geochemistry, Aquatic Chemistry, Stable Isotope Geochemistry, Seismology and Earth Structure, Environmental Microbiology

SCIENTIFIC PROGRAMMING

MATLAB - proficient (script & function writing)
R/Rstudio – proficient (scripting & function writing)

CONFERENCE PRESENTATIONS (P) = poster, (T) = talk, *undergraduate mentee,

- (40) **Jones, M.M.**, Petersen, S.V., & Curley, A.N., 2021, A tropically hot North American Western Interior Seaway in the mid-Cretaceous, *2021 Fall American Geophysical Union (AGU) Meeting*, New Orleans, LA (P)
- (39) Batenburg, S., Bogus, K., **Jones, M.M.**, Macleod, K., Martinez, M., IODP Exp 369 Scientists, 2021, The rhythmic expression of mid-Cretaceous Oceanic Anoxic Event 2 at IODP Sites U1513 and U1516 (southwest of Australia), *EGU General Assembly 2021*, online.
- (38) **Jones, M.M.**, Curley, A.N., Petersen, S.V., 2020, A tropically hot and salty Western Interior Seaway (USA) spanning Cretaceous Oceanic Anoxic Event 2, *2020 Fall Geological Society of America Meeting*: online (T)
- (37*) Hoffman, J.J.*, **Jones, M.M.**, Petersen, S.V., Curley, A.N., 2020, Multi-Proxy seasonality investigation of the mid-Cretaceous Western Interior Seaway using oyster macrofossils, *2020 Fall Geological Society of America Meeting*: online (P)
- (36) **Jones, M.M.**, Sageman, B.B., Selby, D., Jacobson, A.D., Huber, B.T., Batenburg, S.J., et al., 2019, Volcanically initiated shoaling of the marine calcite compensation depth during Oceanic Anoxic Event 2 (~94 Ma), *American Geophysical Union, Fall Meeting 2019*, San Francisco, CA (P)
- (35*) Petersen, S.V., **Jones, M.M.**, Hoffman, J.J.*, 2019, Multi-proxy investigation of the Cenomanian Western Interior Seaway using oyster macrofossils, *American Geophysical Union, Fall Meeting 2019*, San Francisco, CA (P)
- (34) Bryant, R., Leckie, R.M., Dameron S., Elderbak, K., Parker, A., Sageman, B., **Jones, M.M.**, Ludvigson, G., Martin, E., Robinson, L., Rostami, M., and Whiteside, J., 2019, Paleooceanographic change across the Western Interior Seaway during the onset of Oceanic Anoxic Event 2, *American Geophysical Union, Fall Meeting 2019*, San Francisco, CA (P)
- (33) **Jones, M.M.**, Petersen, S.V., Sageman, B.B., Selby, D., Jacobson, A.D., Singer, B.S., Jicha, B.R., 2019, Thermal and Paleooceanographic Responses to OAE2 from $\Delta 47$ Geochemistry and a Refined Chronostratigraphy, *Geochemical Soc. Goldschmidt 2019*, Barcelona, Spain (T) (invited)
- (32) Leckie, R.M., Parker, A.L., Boudinot, F.G., Sepúlveda, J., **Jones, M.M.**, Sageman, B.B., Bralower, T.J., Oakes, R., 2019 (invited), Coastal and neritic foraminifera of Utah: A record of Oceanic Anoxic Event 2 (~94-93 Ma) in the US Western Interior Sea, *2019 Fall Geological Society of America Meeting*: Phoenix, AZ (T)
- (31*) Hoffman, J.J.*, **Jones, M.M.**, Petersen, S.V., 2019, Paleotemperature and water chemistry estimates from the Western Interior Seaway during Oceanic Anoxic Event 2 and the mid-Cretaceous thermal maximum, *MGU, Ann Arbor, MI* (P)
- (30) Sageman, B.B., **Jones, M.M.**, Arthur, M.A., Sepúlveda, J., Boudinot, F.G., 2018, Colder or drier? The Late Cenomanian Plenus Event in North America, *2018 Fall Geological Society of America Meeting*: Indianapolis, IN (T)
- (29) Bryant, R., Leckie, R., Sageman, B.B., **Jones, M.M.**, 2018, High-Resolution foraminiferal and stable isotope record from the Tokay Tongue (Mancos Shale) through the onset of Oceanic Anoxic Event 2, *2018 Fall Geological Society of America Meeting*: Ind., IN (T)
- (28) Sepúlveda, J., Boudinot, F.G., Dildar, N., Kopf, S., **Jones, M.M.**, Sageman, B.B., Bralower, T., Leckie, R.M., 2018, A high-resolution record of marine productivity and carbon cycling across Oceanic Anoxic Event 2 in the Western Interior Seaway, *2018 Fall Geological Society of America Meeting*: Indianapolis, IN (T)

- (27) Huber, B.T., Macleod, K.G., Goughnour, R., **Expedition 369 Scientists**, 2018, Prelude to the Turonian thermal maximum: Cenomanian foraminiferal oxygen isotope temperature records from southern high latitudes, *2018 Fall Geological Society of America Meeting*: Indianapolis, IN (T)
- (26) Macleod, K.G., Edgar, K.M., Batenburg, S.J., **Expedition 369 Scientists**, 2018, The Eocene-Oligocene transition in Mentelle Basin, southeast Indian Ocean, *2018 Fall Geological Society of America Meeting*: Indianapolis, IN (T)
- (25) Goughnour, R., Huber, B.T., Petrizzo, M.R., **Expedition 369 Scientists**, 2018, High paleo-latitude Cenomanian planktonic foraminifera from IODP Expedition 369 Sites drilled on Mentelle Basin, SE Indian Ocean, *2018 Fall Geol. Soc. of America Meeting*: Ind., IN (P)
- (24) Tagliaro, G., Watkins, D.K., Brumsack, H.J., Richter, C., Fulthorpe, C., Xu, Z., **Expedition 369 Scientists**, 2018, Miocene history of productivity, carbonate burial, and terrigenous input in the southern Indian Ocean, *2018 Fall Geological Society of America Meeting*: Indianapolis, IN (T)
- (23*) **Jones, M.M.**, Schuette, C.*, Sageman, B.B., Leckie, R.M., $\delta^{18}\text{O}$ Records of Circulation, Sea Level, and Climate in the Western Interior Seaway during OAE2, *Geochemical Society, Goldschmidt 2018*, Boston, MA (T)
- (22) Ibarra, D.E., **Jones, M.M.**, Caves Rugenstein, J.K., Sageman, B.B., Graham, S.A., von Blanckenburg, F., Chamberlain, C.P., 2018, Quantifying terrestrial weathering across Oceanic Anoxic Event 2, *Geochemical Society, Goldschmidt 2018*, Boston, MA (T)
- (21*) Todes, J.*, **Jones, M.M.**, Sageman, B.B., Osburn, M.R., 2017, A compound-specific hydrogen isotope record at the onset of Ocean Anoxic Event 2, Kaiparowits Plateau, southern Utah, *American Geophysical Union, Fall Meeting 2017*, New Orleans, LA (P)
- (20) **Jones, M.M.**, Sageman, B.B., Oakes, R.L., Parker, A.L., Leckie, R.M., Bralower T.J., 2017, Astronomical pacing of relative sea level through OAE2 from the expanded SH#1 Core, S. Utah, *American Geophysical Union, Fall Meeting 2017*, New Orleans, LA (P)
- (19) Sageman, B.B., **Jones, M.M.**, Selby, D., 2017, Integrated cyclostratigraphic and chemostratigraphic analysis of Cenomanian-Turonian deposits of the Western Interior Basin, *2017 Fall Geological Society of America Meeting*: Seattle, WA (T)
- (18) **Jones, M.M.**, Sageman, B.B., Meyers, S.R., 2016, Coupling carbon isotopes with astrochronology and correlation techniques for Late Cretaceous chronostratigraphic refinement and paleoclimate reconstruction, *American Geophysical Union, Fall Meeting 2016*, San Francisco, CA, PP51C-2318 (P)
- (17) Caves, J.K., Moragne, D.Y., Ibarra, D.E., Bayshashov, B.U., Gao, Y., **Jones, M.M.**, Zhamangara, A., Arzhannikova, A.V., Arzhannikov, S.G., Chamberlain, C.P., 2016, The Neogene de-greening of Central Asia, PP31F-04, *American Geophysical Union, Fall Meeting 2016*, San Francisco, CA (T)
- (16) **Jones, M.M.** et al 2016, Stratigraphic record of oceanic anoxic events from the Western Interior Basin: New insights from osmium isotopes and the expanded Big Water, Utah section, *SEPM Research Conference, Oceanic Anoxic Events*: Austin, TX (T)
- (15) Selby, D., Du Vivier, A.D.C., Sageman, B.B., **Jones, M.M.**, Jarvis, I., Gröcke, D.R., Voigt, S., Takashima, R., Schröder-Adams, C.J., Herrle, J.O., Them II, T.R., Gill, B.C., 2016, Potential oil-source fingerprinting of OAE 2 sourced oil: insights from osmium isotopes, *SEPM Research Conference, Oceanic Anoxic Events*: Austin, TX (T)

- (14) Boudinot, F.G., Sepúlveda, J., Sageman, B.B., **Jones, M.M.**, Bralower, T.J., Oakes, R., Leckie, R.M., Parker, A.L., 2016, Organic Geochemical Constraints on Environmental Change and Black Shale Formation: A High-Resolution Study of OAE-2 in the U.S. Western Interior Seaway, *SEPM Research Conference, Oceanic Anoxic Events*: Austin, TX (P)
- (13) **Jones, M.M.**, Sageman, B.B., Selby, D., Oakes, R., Parker, A.L., Leckie, R.M., Bralower T.J., 2016, Synchronous facies changes and quantified hiatuses at the onset of mid-Cretaceous Oceanic Anoxic Event 2 in the Western Interior Basin, *2016 Fall Geological Society of America Meeting*: Denver, CO (T)
- (12) Boudinot, F.G., Sepúlveda, J., Sageman, B.B., **Jones, M.M.**, Bralower, T.J., Oakes, R., Leckie, R.M., Parker, A.L., 2016, A high-resolution organic geochemical study of OAE2 in the U.S. Western Interior Seaway, *2016 Fall Geological Society of America Meeting*: Denver, CO (P)
- (11) Oakes, R.L., **Jones, M.M.**, Fortiz, V., Fantle, M.S., Bralower, T.J., Arthur, M.A., Sageman, B.B., 2016, Examining the role of volcanism on biotic changes at the Cenomanian-Turonian Boundary, *2016 Fall Geological Society of America Meeting*: Denver, CO (P)
- (10) Parker, A.L., Leckie, R.M., Sageman, B.B., **Jones, M.M.**, 2016, Oceanic Anoxia Event 2 (~94 MA) in the U.S. Western Interior Sea: high resolution foraminiferal record of the development of anoxia in a shallow epicontinental sea. *Geological Society of America Northeastern Meeting*: Albany, NY, paper no. 36-2 (P)
- (9) **Jones, M.M.**, Sageman, B.B., Selby, D., Oakes, R.L., Bralower, T.J., Parker, A., Leckie, R.M., Sepúlveda, J., 2015, Combining local lithofacies and global geochemical signals to test the acidification hypothesis for the onset of Oceanic Anoxic Event 2 in the U.S. Western Interior Basin, *American Geophysical Union, Fall Meeting 2015*, PP33C-2320 (P)
- (8) Clyde, W.C., Bowring, S.A., Johnson, K.R., Ramezani, J., **Jones, M.M.**, 2015, Testing astronomical and $^{40}\text{Ar}/^{39}\text{Ar}$ timescales for the K/Pg boundary interval using high-resolution magnetostratigraphy and U/Pb geochronology in the Denver Basin of Colorado, *American Geophysical Union, Fall Meeting 2015*, GP51B-1334 (P)
- (7) **Jones, M.M.**, Sageman, B.B., 2015, A 15-Myr Late Cretaceous Carbonate Carbon Isotope Chemostratigraphy from the Western Interior Basin for Global Correlation, *2015 Fall Geological Society of America Meeting*: Baltimore, MD, paper no. 53-1 (T)
- (6) Ibarra, D.E., **Jones, M.M.**, Graham, S.A., Sageman, B.B., Chamberlain, P.C., 2015, Investigating the Coniacian-Santonian in the Songliao Basin and possible links to Oceanic Anoxic Event 3, *2015 Fall Geological Society of America Meeting*: Baltimore, MD (T)
- (5) Parker, A.L., Leckie, R.M., Sageman, B.B., **Jones, M.M.**, Bralower, T.J., Oakes, R., 2015, The onset of Oceanic Anoxia Event 2 (~94 Ma) in the U.S. Western Interior Sea: Foraminiferal Response to the Development of Anoxia in a shallow epicontinental sea, *2015 Fall Geological Society of America Meeting*: Baltimore, MD, paper no. 143-3 (P)
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