

# Curriculum Vitae

## BRADLEY DOUGLAS CRAMER

Department of Earth and Environmental Sciences  
University of Iowa  
Iowa City, Iowa 52242, USA  
Research Group Webpage: [www.bradley-cramer.weebly.com](http://www.bradley-cramer.weebly.com)

Phone: +1-319-335-0704  
Fax: +1-319-335-1821  
E-mail: [bradley-cramer@uiowa.edu](mailto:bradley-cramer@uiowa.edu)

## EDUCATIONAL AND PROFESSIONAL HISTORY

### Higher Education

Sept. 2005 – Aug. 2009	Ph.D.	Geological Sciences	The Ohio State University
Sept. 2002 – June. 2004	M.S.	Geological Sciences	The Ohio State University
Sept. 1997 – Aug. 2002	B.S.	Geological Sciences	The Ohio State University

### Professional and Academic Positions

2018 – Present Associate Professor, Department of Earth and Environmental Sciences, University of Iowa.  
2012 – 2018 Assistant Professor, Department of Earth and Environmental Sciences, University of Iowa.  
2012 Post-doctoral Research Associate, Kansas Geological Survey, University of Kansas.  
2010 – 2012 National Science Foundation Post-doctoral Fellow, Kansas Geological Survey and Department of Geology, University of Kansas.  
2011 Visiting Lecturer, Department of Geology, University of Kansas.  
2009 Lecturer, Earth Sciences, The Ohio State University.  
2005 Lecturer, Earth Sciences, The Ohio State University at Lima, Lima campus.  
2005 Lecturer, Earth Sciences, The Ohio State University at Lima, Bellefontaine Center.

### Honors and Awards

2015 *National Science Foundation – CAREER Grant.* NSF Award # CAREER-1455030  
2014 *MAP-Works Champion Nominee:* Student recognition as a champion of first-year student success.  
2012 *Kansas Geological Survey – Post-Doctoral Research Fellowship.*  
2010-2012 *National Science Foundation – Earth Sciences Postdoctoral Fellowship.* NSF Award # EAR-0948277.  
2010 *CGS/UMI Distinguished Dissertation Award Nominee.* Nominated as the sole representative from The Ohio State University for the national biennial award presented by the National Council of Graduate Schools in mathematics, physical sciences, and engineering.  
2008-2009 *The Ohio State University – Presidential Fellowship.*

### Professional Society Memberships

Geological Society of America (GSA)  
American Association of Petroleum Geologists (AAPG)  
Society for Sedimentary Geology (SEPM)  
Paleontological Society (PS)  
Society for Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS)

# TEACHING AT THE UNIVERSITY OF IOWA

## University of Iowa Teaching Assignments

Semester/ Year	Research Advis		Courses Taught	Hrs.	Enroll- ment	Median ACE Scores (out of 6.0)	
	Under.	Grad	Course # & Title			CLAS Core	Effective Teach.
Spring 2020	8	4 2MS 2PhD	EES:4999 Honors Thesis Geosci.	5	1 1U		
			EES:4990 Senior Thesis Geosci.	4,2	2 2U		
			EES:7990 Research: Geoscience	5,14	2 2G		
			EES:3110 Chemical Evol. Oceans	3	11 2G, 9U	5.90	5.90
Fall 2019	8	4 2MS 2PhD	EES:1115 Hist. & Sci. of Oil	3	74 74U	5.80	5.80
			EES:7990:5460 Research: Geoscience	5,5,8	3 3G	-	-
			HONR:3100:5741 Honors Teaching Pract.	3	1 1U	-	-
			EES:2190:5160 Directed Study	2	1 1U	-	-
			EES:3770 Global Stratigraphy	3	10 5G,5U	5.90	6.00
Spring 2019	7	4 1MS 3PhD	EES:2200 Historical Geology w/ Jonathan Adrain - EES	4	11 11U	6.00	6.00
			EES:2190:3570 Directed Study	1	1 1U	-	-
			EES:7990:3511 Research: Geoscience	4,8	3 3G	-	-
			EES:1115 Hist. & Sci. of Oil	3	78	5.80	5.90
Fall 2018	8	4 1MS 3PhD	EES:2190:0810 Directed Study	1	1 1U	-	-
			EES:4990:1967 Senior Thesis	1	1 1U	-	-
			EES:7990:1683 Research: Geoscience	6	2 2G	-	-
			EES:3110 Chem. Evol. Oceans	3	37 1G/36U	5.80	5.90
Spring 2018	7	1 1PhD	EES:2200 (New Course) Historical Geology w/ J. Adrain - EES	4	13	6.00	6.00
			EES:3190:9274 Directed Study	1	1 1U	-	-
			EES:7990:9275 Research: Geoscience	1	1 1G	-	-
			EES:1115 Big Ideas: Hist./Sci. of Oil w/ T. Priest - HIST/GSS	3	131	5.70	5.70
Fall 2017	6	1 1PhD	EES:2190:6617 Directed Study	2	1 1U	-	-
			EES:7990:7830 Research: Geoscience	6	1 1G	-	-

**University of Iowa Teaching Assignments (continued)**

Semester/ Year	Advisees		Courses Taught	Hrs.	Enroll- ment	Median ACE Scores (out of 6.0)	
	Under.	Grad	Course # & Title			CLAS Core	Effective Teach.
Spring 2017	6	2 1MS 1PhD	EES:3190:042 Directed Study	2	1 1U	-	-
			EES:7990:042 Research: Geoscience	3,8	2 2G	-	-
Fall 2016	3	2 1MS 1PhD	EES:3770 Global Stratigraphy	3	10	5.80	5.80
			EES:1115 Big Ideas: Hist./Sci. of Oil w/ T. Priest - HIST/GSS	3	95	5.80	5.80
			EES:3190:042 Directed Study	3	1 1U	-	-
			EES:7990:042 Research: Geoscience	5	1 1G	-	-
Spring 2016	5	4 2MS 2PhD +1PD	EES:3110 Chem. Evol. Oceans	3	17 8G; 9U	6.00	6.00
			EES:7990:042 Research: Geoscience	1	2-3	-	-
Fall 2015	5	4 2MS 2PhD +1PD	EES:1115 Big Ideas: Hist./Sci. of Oil w/ T. Priest - HIST/GSS	3	67	5.80	5.90
			EES:7990:042 Research: Geoscience	1-3	3	-	-
<b>New Online Evaluation Forms Introduced Fall 2015-----</b>							
Semester/ Year	Advisees		Courses Taught	Hrs.	Enroll- ment	Mean ACE Scores (out of 6.0)	
	Under.	Grad	Course # & Title			Instructor Prep.	Effective Teach.
Spring 2015	5	3 2MS 1PhD +1 Post Doc	EES:3770 Global Stratigraphy	3	11 8G; 3U	5.91	6.00
			GRAD:7280 ( <i>new course</i> ) Enrgy, Hmnties, Anthro. - (w/ T. Priest & B. Eckstein)	1	9 8G; 1U	-	-
			EES:3190:042 Directed Study	3	1 1U	-	-
			EES:7990:042 Research: Geoscience	2,2,1	3 3G	-	-
Fall 2014	5	3 2MS 1PhD +1 Post Doc	EES:1030 Intro to Earth Sci.	4 or 3	242	5.93	5.89
			EES:2115 History & Sci. of Oil (w/ T. Priest - HIST/GSS)	3	20 1G; 19U	5.88	5.75
			EES:7990:042 Research: Geoscience	7	1 1G	-	-

**University of Iowa Teaching Assignments (continued)**

Semester/ Year	Advisees		Courses Taught	Hrs.	Enroll- ment	Median ACE Scores (out of 6.0)	
	Under.	Grad	Course # & Title			CLAS Core	Effective Teach.
Spring 2014	3	2 IMS 1PhD	EES:3110 ( <i>new course</i> ) Chem. Evol. Oceans	3	16 8G; 8U	5.88	5.97
			EES:7990:042 Research: Geoscience	2	1 1G	-	-
			EES:4990:0042 Senior Thesis	1	1 1U	-	-
Fall 2013	3	2 IMS 1PhD	EES:1030 Intro to Earth Sci. (w/ B. McClelland - EES)	4 or 3	251	5.9	5.86
			EES:2115 ( <i>new course</i> ) History & Sci. of Oil	3	18 18U	5.88	5.83
			EES:7990:042 Research: Geoscience	1	1 1G	-	-
Spring 2013	2	0	EES:3770 ( <i>new course</i> ) Global Stratigraphy	3	7 4G; 3U	6	6
Fall 2012	1	0	EES:1030 Intro to Earth Sci. (w/ B. McClelland - EES)	4 or 3	269	5.93	5.82

**Research and Academic Advising**

Objective	Name	Years	Outcome	Next Step/Current
Post-Doc	Shamar Chin	2020-present	in progress	
	Alyssa Bancroft	2014-2016	-	Indiana Geological Survey
Ph.D.	Matthew Braun	2018-present	in progress	
	Stephanie Surine	2018-present	in progress	Iowa Geological Survey
	Stephan Oborny	2015-2019	Ph.D. 2019	Kansas Geological Survey
	Neo E.B. McAdams	2013- 2016	Ph.D. 2016	Asst. Prof. Texas Tech
M.S.	Brittany Stolfus	2019-present	in progress	
	Megan Heath	2018-2020	M.S. 2020	Big Sky Watershed Corps
	Erika Danielsen	2015-2017	M.S. 2017	Ohio Geological Survey
	Christopher Waid	2014-2016	M.S. 2016	Ohio Geological Survey
	Stephan Oborny	2013-2015	M.S. 2015	Ph.D. UIowa
Undergraduate (Research)	Gwen Barnes	2019-present	in progress	Geoscience
	Aistis Grazulis	2018-2020	B.S. Geoscience 2020	Ph.D. Brown
	Madysen Gilbert	2018-2020	B.S. Env.Sci./Geosci.2020	M.S. Duke
	Owen Baldwin	2018-present	in progress	Geoscience
	Ellie Biebesheimer	2017-2020	B.S. Geoscience 2020	M.S. Kansas
	Emma Hartke	2017-2020	B.S. Geoscience 2020	M.S. Penn State
	Claire Carlson	2017-2020	B.S. Geoscience 2020	Conserv. Dist. Iowa
	Libby Chelsvig	2017-present	in progress	Env. Eng.
	Brittany Stolfus	2016-2018	B.S. Geoscience 2018	M.S. UIowa
	Matthew Trembath	2017-2018	B.S. Geoscience 2018	M.S. UIowa
	Nick Lefler	2016-2017	B.S. Geoscience 2017	TriHydro Corp.
	Terryl Bandy	2013-2017	B.S. Geoscience 2017	M.S. Florida State
	Alexa Hanson	2014-2017	B.S.E. Env. Eng. 2017	Ph.D. Utah
	Jake Bucklin	2014-2015	B.S. Geoscience 2015	M.S. UIowa
	Max Dehio	2014-2015	B.S. Geoscience 2015	ARI Environmental Inc.
	Christopher Coble	2013-2014	B.S. Geosci./Chem.2015	Integrated DNA Inc.

## Other Thesis/Comprehensive Committee Memberships

<i>Objective</i>	<i>Name</i>	<i>Years</i>	<i>Outcome</i>	<i>Comment</i>
Ph.D.	Kenny Horkley	2020-present	in progress	Committee (Peate)
	Michiel Arts	2020-present	in progress	Committee (U. Liege, Belgium)
	Matthias Sinnesael	2019-2020	<i>Ph.D. 2020</i>	Committee (Vr. Brus., Belgium)
	Jordan Brady	2019	<i>Ph.D. 2019</i>	Committee (Weirich)
	John Jepsen	2018-present	in progress	Committee (Priest – History)
	Chris Haring	2018-2019	<i>Ph.D. 2019</i>	Committee (Weirich)
	Amanda Adams	2017-2020	<i>Ph.D. 2020</i>	Committee (Brochu)
	Jennifer Thines	2017-present	in progress	Committee (Ukstins)
	David Tarailo	2015-2018	<i>Ph.D. 2018</i>	Committee (Brochu)
	Adam Cossette	2015-2018	<i>Ph.D. 2018</i>	Committee (Brochu)
	Kathryn Rathbun	2013-2020	<i>Ph.D. 2020</i>	Committee (Reagan)
	Jessica Miller-Camp	2015-2016	<i>Ph.D. 2016</i>	Committee (Brochu)
	Diar Ibrahim	2013-2016	<i>Ph.D. 2016</i>	Committee (McClelland)
M.S.	Maggie Ruben	2020	<i>M.S. 2020</i>	Committee (Brochu)
	Reuben Ng	2019	<i>M.S. 2019</i>	Committee (Adrain)
	Phil Kerr	2016-2018	<i>M.S. 2018</i>	Committee (Bettis)
	Kayla Schmalte	2016-2019	<i>M.S. 2019</i>	Committee (Foster)
	Daniel Coulthard	2016-2018	<i>M.S. 2018</i>	Committee (Reagan)
	Katie Goff	2015-2017	<i>M.S. 2017</i>	Committee (Bettis)
	David Cordie	2014-2015	<i>M.S. 2015</i>	Committee (Budd)

## Other Contributions to Instructional Programs

### Course Guest Lectures

Fall 2019	CPH:2200 ( <i>Climageddon: A Crisis for Public Health</i> ) ENVS/EES:1085 ( <i>Foundations of Environmental Science</i> ) EES:5530 ( <i>Geochronology</i> )
Fall 2018	CPH:2200 ( <i>Climageddon: A Crisis for Public Health</i> ) ENVS/EES:1085 ( <i>Foundations of Environmental Science</i> )
Spring 2018	HIST:1166 ( <i>Rapid Response History</i> ) EES:5530 ( <i>Geochronology</i> )
Fall 2017	CPH:2200 ( <i>Climageddon: A Crisis for Public Health</i> ) ENVS/EES:1290 ( <i>Energy &amp; The Environment</i> ) ENVS/EES:1085 ( <i>Foundations of Environmental Science</i> )
Spring 2017	GEOG:3780 ( <i>US Energy Policy in Global Context</i> )
Fall 2016	ENVS/EES:1085 ( <i>Foundations of Environmental Science</i> )
Fall 2015	EES:5010 ( <i>Geoscience Seminar</i> ) EES:5530 ( <i>Geochronology</i> )
Spring 2015	BIOL/ASTR/ANTH/EES:1061 ( <i>Origins of Life in the Universe – Part 2</i> ) ENVS/EES:1080 ( <i>Introduction to Environmental Science</i> )
Fall 2014	ENVS/EES:5250 ( <i>Environmental Seminar</i> )
Spring 2014	ENVS/EES:1080 ( <i>Introduction to Environmental Science</i> )
Fall 2013	EES:5530 ( <i>Geochronology</i> ) EES:5010 ( <i>Geoscience Seminar</i> )
Spring 2013	EES:6250 ( <i>Paleontology Seminar</i> ) GEOG:7000 ( <i>Geography Colloquium</i> )
Fall 2012	EES:6250 ( <i>Paleontology Seminar</i> )

## University Community Guest Lectures

- Spring 2017 Provost's Global Forum – Women's Health and the Environment: Going Up in Smoke  
(*Climate, Energy, & Policy*)
- Fall 2014 Obermann Afternoons (*Anthropocene 101*)
- Spring 2013 Natural History Museum, Explorer Seminar Series (*Asking Old Rocks New Questions*)

## SCHOLARSHIP

### Publications

(\**First Author*, \*\**Major Contribution*, \*\*\**Minor Contribution*, *Student*)

### Peer-Reviewed Journal Articles and Book Chapters

- [52] Kerr, P.J., Tassier-Surine, S.A., Kilgore, S.M., Bettis III, E.A., Dorale, J.A., & \*\***Cramer, B.D.**, *submitted*, Timing, provenance, and implications of multiple MIS 3 advances of the Laurentide ice sheet into Iowa, USA. *Quaternary Science Reviews*. I.F. = 4.641, 5-year I.F. = 5.350
- [51] Biebesheimer, E., \*\***Cramer, B.D.**, Calner, M., Barnett, B.A., Oborny, S.C., & Bancroft, A.M., *submitted*, Asynchronous  $\delta^{13}\text{C}_{\text{carb}}$  and  $\delta^{13}\text{C}_{\text{org}}$  records during the onset of the Mulde (Silurian) positive carbon isotope excursion from the Altajme core, Gotland, Sweden. *Chemical Geology*. I.F. = 3.618, 5-year I.F. = 4.169
- [50] Hartke, E.R., \*\***Cramer, B.D.**, Calner, M., Melchin, M.J., Barnett, B.A., Oborny, S.C., & Bancroft, A.M., *in press*, Decoupling  $\delta^{13}\text{C}_{\text{carb}}$  and  $\delta^{13}\text{C}_{\text{org}}$  at the onset of the Ireviken Excursion:  $\Delta^{13}\text{C}$  and organic carbon burial ( $f_{\text{org}}$ ) during a Paleozoic (Silurian) oceanic anoxic event. *Global and Planetary Change*. doi: 10.1016/j.gloplacha.2020.103373. I.F. = 4.448, 5-year I.F. = 5.142
- [49] Stolfus, B.M., \*\***Cramer, B.D.**, Clark, R.J., Hogancamp, N.J., Day, J.E., Tassier-Surine, S.A., & Witzke, B.J., 2020. An expanded stratigraphic record of the Devonian-Carboniferous boundary Hangenberg biogeochemical event from southeast Iowa. *Bulletin of Geosciences*, v. 95, n. 4, p. 469-495. doi: 10.3140/bull.geosci.1781. I.F. = 1.500, 5-year I.F. = 1.459
- [48] \***Cramer, B.D.**, Peate, D.W., & Saltzman, M.R., 2020, GSA statement on diversity, and challenge to the society, geoscience departments, and the geoscience community at large. *GSA Today*, v. 31. doi: 10.1130/GSATG472GW.1.
- [47] \***Cramer, B.D.**, & Jarvis, I., 2020. Chapter 11: Carbon isotope stratigraphy, in Gradstein, F.M., Ogg, J.G., Schmitz, M.D. & Ogg, G.M., (eds.), *Geologic Time Scale 2020, Volume 1*, Elsevier, Amsterdam, p. 309-343. doi: 10.1016/B978-0-12-824360-2.00011-5.
- [46] Melchin, M.J., Sadler, P.M., & \*\***Cramer, B.D.**, 2020. Chapter 21: The Silurian Period, in Gradstein, F.M., Ogg, J.G., Schmitz, M.D & Ogg, G.M., (eds.), *Geologic Time Scale 2020, Volume 2*, Elsevier, Amsterdam, p. 695-732. doi: 10.1016/B978-0-12-824360-2.00021-8.
- [45] Oborny, S.C., \*\***Cramer, B.D.**, & Brett, C.E., 2020, High-Resolution Event Stratigraphy (HiRES) across the Cincinnati Arch through integrating conodont, carbon isotope, and gamma ray biochemostratigraphy with sequence stratigraphy. *GFF*. doi: 10.1080/11035897.2020.1819407. I.F. = 1.076, 5-year I.F. = 1.126
- [44] Shohel, M., McAdams, N.E.B., \*\***Cramer, B.D.**, & Forbes, T.Z., 2020, Ontogenetic variability in crystallography and mosaicity of conodont apatite: Implications for microstructure analysis and the use of conodonts in paleothermometry and geochemistry. *Royal Society Open Science*, v. 7, #200322. doi: 10.1098/rsos.200322. I.F. = 2.515, 5-year I.F. = 2.693

- [43] Oborny, S.C., **\*\*Cramer, B.D.**, Brett, C.E., & Bancroft, A.M., 2020, Integrated Silurian conodont and carbon isotope bio-chemostratigraphy of the East-Central Appalachian Basin. *Palaeogeography, Palaeoclimatology, Palaeoecology*, v. 554, #109815. doi:10.1016/j.palaeo.2020.109815. I.F. = 2.616, 5-year I.F. = 2.898
- [42] Bancroft, A.M., & **\*\*Cramer, B.D.**, 2020. Silurian conodont biostratigraphy of the East-Central Appalachian Basin: Re-examination of the C.T. Helfrich collection. *Bulletin of Geosciences*, v. 95, n. 1, p. 1-22. doi:10.3140/bull.geosci.1748. I.F. = 1.500, 5-year I.F. = 1.459
- [39] Danielsen, E.M., **\*\*Cramer, B.D.**, & Kleffner, M.A., 2019, Identification of a global sequence boundary within the upper Homeric (Silurian) Mulde Event: High-resolution chronostratigraphic correlation of the midcontinent, United States with Sweden and the United Kingdom. *Geosphere*, v. 15, n. 3, p. 839-855. doi: 10.1130/GES01685.1. I.F. = 2.811, 5-year I.F. = 2.741
- [38] McAdams, N.E.B., **\*\*Cramer, B.D.**, Bancroft, A.M., Melchin, M.J., Devera, J.A., & Day, J.E., 2019. Integrated  $\delta^{13}\text{C}_{\text{carb}}$ , conodont, and graptolite bio-chemostratigraphy of the Silurian from the Illinois Basin and stratigraphic revision to the Bainbridge Group. *Geological Society of America Bulletin*, v. 131, n 1-2, p. 335-352. doi: 10.1130/B32033.1. I.F. = 4.039; 5-year I.F. = 4.450
- [37] Schachat, S.R., Labandeira, C.C., Saltzman, M.R., **\*\*\*Cramer, B.D.**, Payne, J.L., & Boyce, K., 2018. Phanerozoic  $p\text{O}_2$  and the early evolution of terrestrial animals. *Proceedings of the Royal Society Part B*, v. 285, n. 1871, #20172631. doi: 10.1098/rspb.2017.2631. I.F. = 4.940; 5-year I.F. = 5.417
- [36] McAdams, N.E.B., Schmitz, M.D., Kleffner, M.A., Verniers, J., Vandenbroucke, T.R.A., Ebert, J.R., & **\*\*Cramer, B.D.**, 2018. A new high-precision CA-ID-TIMS date for the 'Kalkberg' K-bentonite (Judds Falls Bentonite). *Lethaia*, v. 51, p. 344-356. doi:10.1111/let.12241 I.F. = 2.281; 5-year I.F. = 1.965
- [35] Waid, C.B.T., & **\*\*Cramer, B.D.**, 2017. Global chronostratigraphic correlation of the Llandovery Series (Silurian System) in Iowa, USA, utilizing high-resolution carbon isotope ( $\delta^{13}\text{C}_{\text{carb}}$ ) and conodont bio-chemostratigraphy. *Bulletin of Geosciences*, v. 92, n. 3, p. 373-390. doi:10.3140/bull.geosci.1657. I.F. = 1.175; 5-year I.F. = 1.398
- [34] McAdams, N.E.B., Bancroft, A.M., **\*\*Cramer, B.D.**, & Witzke, B.J., 2017. Integrated carbon isotope and conodont biochemostratigraphy of the Silurian (Aeronian-Telychian) of the East-Central Iowa Basin, Iowa, USA. *Newsletters on Stratigraphy*, v. 50, n. 4, p. 391-416. doi: 10.1127/nos/2017/0375. I.F. = 2.933; 5-year I.F. = 3.983
- [33] Oborny, S.C., **\*\*Cramer, B.D.**, Heckel, P.H., Ludvigson, G.A., & Henthorne, B., 2017. Development of phylloid-algal carbonate mounds during regression: Expanding the build-and-fill model. *Journal of Sedimentary Research*, v. 87, n. 7, p. 688-706. doi: 10.2110/jsr.2017.38. I.F. = 2.427; 5-year I.F. = 2.770
- [32] Waid, C.B.T., & **\*\*Cramer, B.D.**, 2017. Telychian (Llandovery, Silurian) conodonts from the LaPorte City Formation of eastern Iowa (East-Central Iowa Basin) and their implications for global Telychian conodont biostratigraphic correlation. *Palaeontologia Electronica*, v. 20, n. 2, #39A, p. 1-37. doi:10.26879/685. I.F. = 1.400; 5-year I.F. = 1.874
- [31] Sullivan, N.B., McLaughlin, P.I., Brett, C.E., **\*\*\*Cramer, B.D.**, Kleffner, M.A., Thomka, J.R., & Emsbo, P., 2016. Sequence boundaries and chronostratigraphic gaps in the Llandovery of Ohio and Kentucky: The record of early Silurian paleoceanographic events in east-central North America. *Geosphere*, v. 12, n. 6, p. 1813-1832. doi: 10.1130/GES01343.1. I.F. = 2.304; 5-year I.F. = 2.466
- [30] Schröer, L., Vandenbroucke, T.R.A., Hints, O., Steeman, T., Verniers, J., Brett, C.E., **\*\*\*Cramer, B.D.**, & McLaughlin, P.I., 2016. A Late Ordovician age for the Whirlpool Formation and Power Glen Formation, New York. *Canadian Journal of Earth Sciences*, v. 53, n. 7, p. 739-747. doi: 10.1139/cjes-2015-0226. I.F. = 1.190; 5-year I.F. = 1.634

- [29] \***Cramer, B.D.**, Lewandowski, K.J., Goldstein, A., Asher, P., Ryan, J., Schofield, D.I., Buchanon, R., Denne, R., Ausich, W.I., Vandenbroucke, T.R.A., Lundy, S., Priest, R.T., & Clark, R.J., 2015. Who will build the 21<sup>st</sup> Century? Addressing critical demographic gaps in the geosciences. *GSA Today*, v. 25, n. 12, p. 36-37. doi:10.1130/GSATG243GW.1.
- [28] \***Cramer, B.D.**, Schmitz, M.D., Huff, W.D., & Bergström, S.M., 2015. High-precision U-Pb zircon age constraints on the duration of rapid biogeochemical events during the Ludlow Epoch (Silurian Period). *Journal of the Geological Society (London)*, v. 172, p. 157-160. doi: 10.1144/jgs2014-094. I.F. = 2.583; 5-year I.F. = 3.457
- [27] \***Cramer B.D.**, Vandenbroucke, T.R.A., & Ludvigson, G.A., 2015. High-Resolution Event Stratigraphy (HiRES) and the quantification of stratigraphic uncertainty: Silurian examples of the quest for precision in stratigraphy. *Earth-Science Reviews*, v. 141, p. 136-153. doi: 10.1016/j.earscirev.2014.11.011 I.F. = 7.339; 5-year I.F. = 8.759
- [26] Sullivan, N.B., Brett, C.E., McLaughlin, P.I., Kleffner, M.A., & \*\*\***Cramer, B.D.**, 2014. Correlation of the Waco Member (Telychian; Llandovery; Silurian) in East-Central Kentucky and South-Central Ohio. *GFF*, v. 136, n. 1, p. 254-258. doi: 10.1080/11035897.2013.876657. I.F. = 1.378; 5-year I.F. = 1.164
- [25] \***Cramer, B.D.**, & Melchin, M.J., 2013. IGCP 591 – The Early to Middle Paleozoic Revolution: A Special Volume in Honor of August F. Foerste. *Stratigraphy*, v. 10, n. 4, p. 211-212. I.F. = 1.059; 5-year I.F. = 1.212
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- [23] Nardin, E. Vandenbroucke, T.R.A., \*\***Cramer, B.D.**, & Aretz, M., 2013. Palaeozoic stratigraphy: Past, recent advances, and future challenges. *Ciências da Terra*, v. 18, p. 57-60.
- [22] \***Cramer, B.D.**, Condon, D.J., Söderlund, U., Marshall, C., Worton, G.J., Thomas, A.T., Calner, M., Ray, D.C., Perrier, V., Boomer, I., Patchett, P.J., & Jeppsson, L., 2012. U-Pb (zircon) age constraints on the timing and duration of Wenlock (Silurian) paleocommunity collapse and recovery during the ‘Big Crisis’. *Geological Society of America Bulletin*, v. 124, p. 1841-1857. doi: 10.1130/B30642.1. I.F. = 4.286; 5-year I.F. = 4.494
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- [20] Brett, C.E., \*\***Cramer, B.D.**, McLaughlin, P.I., Kleffner, M.A., Showers, W.J., & Thomka, J.R., 2012. Revised Telychian-Sheinwoodian (Silurian) stratigraphy of the Laurentian mid-continent: Building uniform nomenclature along the Cincinnati Arch. *Bulletin of Geosciences*, v. 87, p. 733-753. doi: 10.3140/bull.geosci.1310. I.F. = 1.141; 5-year I.F. = 1.141
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- [12] \***Cramer, B.D.**, Loydell, D.K., Samtleben, C., Munnecke, A., Kaljo, D., Männik, P., Martma, T., Jeppsson, L., Kleffner, M.A., Barrick, J.E., Johnson, C.A., Emsbo, P., Joachimski, M.M., Bickert, T., & Saltzman, M.R., 2010. Testing the limits of Paleozoic chronostratigraphic correlation via high-resolution (<500,000yrs) integrated conodont, graptolite, and carbon isotope ( $\delta^{13}\text{C}_{\text{carb}}$ ) biochemostratigraphy across the Llandovery-Wenlock (Silurian) boundary: Is a unified Phanerozoic timescale achievable?. *Geological Society of America Bulletin*, v. 122, p. 1700-1716, doi: 10.1130/B26602.1. I.F. = 4.286; 5-year I.F. = 4.494
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- [10] \***Cramer, B.D.**, Saltzman, M.R., Day, J.E., & Witzke, B.J., 2008. Record of the Late Devonian Hangenberg Global Positive Carbon Isotope Excursion in an Epeiric Sea Setting: Carbonate Production, Organic Carbon Burial, and Paleooceanography during the late Famennian, in Pratt, B.R., and Holmden, C., (eds.), Dynamics of Epeiric Seas. *Geological Association of Canada Special Paper*, v. 48, p. 103-118.
- [9] McLaughlin, P.I., \*\***Cramer, B.D.**, Brett, C.E., & Kleffner, M.A., 2008. Silurian high-resolution stratigraphy on the Cincinnati Arch: Progress on recalibrating the layer-cake, in Maria, A.H., and Counts, R.C., (eds.), From the Cincinnati Arch to the Illinois Basin: Geological Field Excursions along the Ohio River Valley. *Geological Society of America Field Guide*, v. 12, p. 119-180. doi: 10.1130/2008.fld012(08).
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- [7] Su, W., Wang, Y., \*\***Cramer, B.D.**, Munnecke, A., Li, Z., & Fu, L., 2008. Preliminary estimation of paleoproductivity via TOC and habitat-types: Which method is more reliable? – A case study on the Ordovician-Silurian transitional black shales of the upper Yangtze Platform, South China. *Journal of China University of Geosciences*, v. 19, n. 5, p. 534-548.
- [6] \***Cramer, B.D.**, & Saltzman, M.R., 2007. Glaciation,  $\text{CO}_2$ , and organic carbon burial during the early Silurian: New evidence from paired  $\delta^{13}\text{C}_{\text{carb}}$  and  $\delta^{13}\text{C}_{\text{org}}$  analyses from the mid-continent of North America. *Palaeogeography, Palaeoclimatology, Palaeoecology*, v. 256, p. 195-203. doi: 10.1016/j.palaeo.2007.02.032. I.F. = 2.745; 5-year I.F. = 3.215

- [5] \***Cramer, B.D.**, & Saltzman, M.R., 2007. Fluctuations in epeiric sea carbonate production during Silurian positive carbon isotope excursions: A review of proposed paleoceanographic models. *Palaeogeography, Palaeoclimatology, Palaeoecology*, v. 245, p. 37-45. doi: 10.1016/j.palaeo.2006.02.027. I.F. = 2.745; 5-year I.F. = 3.215
- [4] \***Cramer, B.D.**, Saltzman, M.R., & Kleffner, M.A., 2006. Spatial and temporal variability in organic carbon burial during global positive carbon isotope  $\delta^{13}\text{C}_{\text{carb}}$  excursions: New insight from high-resolution  $\delta^{13}\text{C}_{\text{carb}}$  stratigraphy from the type area of the Niagaran (Silurian) Provincial Series. *Stratigraphy*, v. 2, n. 4, p. 327-340. I.F. = 1.059; 5-year I.F. = 1.212
- [3] \***Cramer, B.D.**, Kleffner, M.A., & Saltzman, M.R., 2006. The late Wenlock 'Mulde' positive carbon isotope excursion in North America. *GFF*, v. 128, p. 85-90. doi: 10.1080/11035890601282085. I.F. = 1.378; 5-year I.F. = 1.164
- [1] \***Cramer, B.D.**, & Saltzman, M.R., 2005. Sequestration of  $^{12}\text{C}$  in the deep ocean during the early Wenlock (Silurian) positive carbon isotope excursion. *Palaeogeography, Palaeoclimatology, Palaeoecology*, v. 219, p. 333-349. doi: 10.1016/j.palaeo.2005.01.009. I.F. = 2.745; 5-year I.F. = 3.215

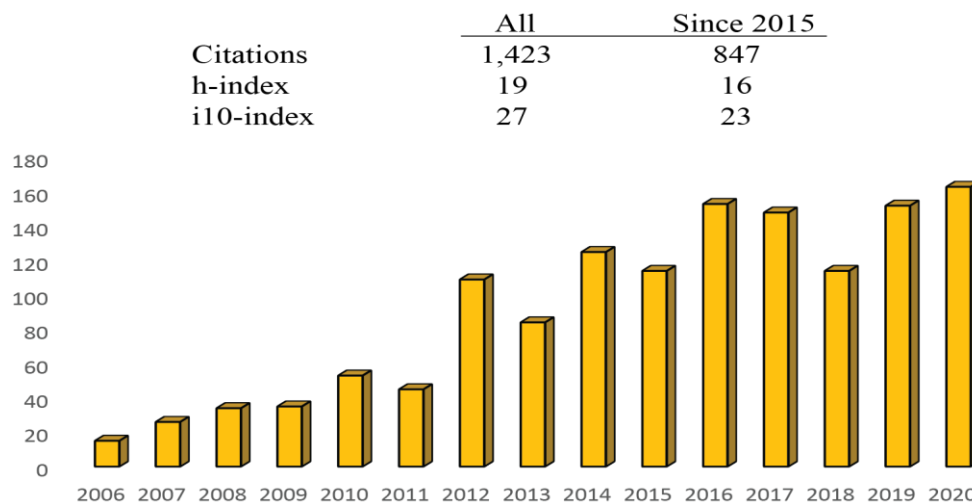
#### Non-Peer Reviewed Book Chapters and Field Guides

- [41] \***Cramer, B.D.**, Stolfus, B.M., Day, J.E., Clark, R.J., Hogancamp, N.J., Witzke, B.J. & Tassier-Surine, S., 2019. The Devonian-Carboniferous Boundary in the Mississippi River Valley of Iowa, Illinois, and Missouri, in Cramer, B.D. (ed.), *The Devonian-Carboniferous Boundary in the Type Area of the Mississippian*. Iowa Geological Survey Guidebook Series, v. 30, p. 1-9.
- [40] Hogancamp, N.J., Stolfus, B.M., \*\***Cramer, B.D.**, & Day, J.E., 2019. A revised conodont zonation of the Tournaisian (Kinderhookian to Lower Osage) and implications for stratigraphic correlations in North America, in Cramer, B.D. (ed.), *The Devonian-Carboniferous Boundary in the Type Area of the Mississippian*. Iowa Geological Survey Guidebook Series, v. 30, p. 11-17.
- [17] Brett, C.E., \*\***Cramer, B.D.**, Datillo, B.F., McLaughlin, P.I., Schramm, T.J., & Thomka, J.R., 2012. *Middle Paleozoic Sequence Stratigraphy and Paleontology of the Cincinnati Arch: Part 2 – Northern Kentucky and SE Indiana*. Brett, C.E., Cramer, B.D., & Gerke, T.L. (eds.). Post-Meeting Field Guide for the IGCP 591 2<sup>nd</sup> Annual Meeting, Cincinnati, Ohio, USA, July, 2012. 94 pp.
- [14] \***Cramer, B.D.**, Davies, J.R., Ray, D.C., Thomas, A.T., & Cherns, L., 2011. Siluria Revisited: An Introduction, in Ray, D.C. (ed.). *Siluria Revisited: A Field Guide. International Subcommission on Silurian Stratigraphy, Field Meeting 2011*, Ludlow, England, p. 6-27.
- [2] \***Cramer, B.D.**, Kleffner, M.A., & Saltzman, M.R., 2006. Chemostratigraphic correlation of Lower Silurian deposits in Eastern Iowa: Placing the Llandovery-Wenlock boundary in the mid-continent, in Day, J., Luczaj, J., and Anderson, R., (eds.). *New Perspectives and Advances in the Understanding of Lower and Middle Paleozoic Epeiric Carbonate Depositional Systems of the Iowa and Illinois Basins. Guidebook for the 36<sup>th</sup> Annual Field Conference of the Great Lakes Section, Society for Sedimentary Geology (SEPM), and the 67<sup>th</sup> Annual Tri-State Field Conference. Iowa Geological Survey Guidebook Series, No. 25, p. 103-109.*

## Pending Publications

[53] Heath, M.N., **\*\*Cramer, B.D.**, Stolfus, B.M., Day, J.E., Barnes, G., Clark, R.J., Witzke, B.J., & Tassier-Surine, S.A., in prep., Decoupling  $\delta^{13}\text{C}_{\text{carb}}$  and  $\delta^{13}\text{C}_{\text{org}}$  across the Devonian-Carboniferous boundary and the recognition of the Hangenberg Crisis as a Paleozoic Oceanic Anoxic Event (OAE). *Earth and Planetary Science Letters*, I.F. = 4.637, 5-year I.F. = 5.164

## Google Scholar Citation Metrics, as of November, 2020:



## Research Grants and Contracts

**Total Career Funding: \$2,103,935 USD**

**Career External Funding: \$2,036,727 USD**

**Total Contract Funding UIowa MicroPaleo Lab: \$81,475 USD**

**Total External Funding at UIowa: \$1,830,527 USD**

### Research Grants (External)

- 2019 *Acquisition of an X-ray Fluorescence Spectrometer, Department of Earth & Environmental Sciences, University of Iowa.* (Roy J. Carver Charitable Trust, Co-PI with Emily Finzel, David Peate, and Lawrence Horkley; **\$341,800**).
- 2017-2018 *Testing Rates of Change during Major Perturbations to the Silurian Global Carbon Cycle.* (Natural Environment Research Council – Isotope Geoscience Facilities [U.K.], Co-PI with David Schofield and Dan Condon; Award # IP-1691-1116; **£58,800 [~\$71,000]**).
- 2016-2020 *GP-IMPACT: Leveraging Adoption of the Next Generation Science Standards (NGSS) and Improving Geoscience Education in the State of Iowa.* (National Science Foundation – Division of Undergraduate Education, Primary Investigator with Co-PIs Ted Neal, Brian Witzke, Kate Tierney Cramer, and Mary Kosloski; Award # GP-IMPACT-1600429; **\$458,252**).

- 2015-2021 *CAREER: The Quest for Precision in Stratigraphy: Extending Neogene-Scale Resolution into the Paleozoic.* (National Science Foundation – Sedimentary Geology & Paleobiology Program, Sole P.I.; Award # CAREER-1455030; **\$705,000**).
- 2013-2017 *Resolving the Silurian Petroleum System on the Western Margin of the Appalachian Basin.* (American Chemical Society – Petroleum Research Fund – Doctoral New Investigator Grant; Sole P.I.; Grant # 53196-DNI8; **\$100,000**).
- 2011-2016 *International Geoscience Programme (IGCP) Project 591 – The Early to Middle Paleozoic Revolution: Bridging the gap between the Great Ordovician Biodiversification Event and the Devonian Terrestrial Revolution.* Co-Leaders: **Bradley D. Cramer (USA)**, Živilė Žigaitė (Lithuania), Thijs R.A. Vandenbroucke (France), Kathleen Histon (Italy), Zhan Renbin (China), Guillermo L. Albanesi (Argentina), Michael J. Melchin (Canada) & Mikael Calner (Sweden). (*The IGCP is sponsored by the United Nations Educational, Scientific and Cultural Organization (UNESCO) through the International Union of Geological Sciences (IUGS)*); **\$43,000**.
- 2013-2014 *Geologic Mapping in the State of Kansas.* (United States Geological Survey – STATEMAP Program; subcontractor to the Kansas Geological Survey; P.I.: G. Ludvigson; **\$30,000**)
- 2011 *The Digital Integrated Stratigraphy Project.* (Deutsche Forschungsgemeinschaft (DFG – German Research Council; Co-PI A. Munnecke [Germany], C. Aiken [USA], D. Schofield [United Kingdom]; Grant # Mu2352/2-1; **€7,000 [\$9,000]**)
- 2010-2012 *Recalibrating the Silurian System using integrated high-resolution biochemostratigraphy and geochronology: A case study for the Paleozoic Era.* (National Science Foundation – Earth Sciences Division, Post-Doctoral Fellowship, Sole P.I.; Award # EAR-0948277; **\$170,000**).
- 2005-2008 *High-Resolution Biochemostratigraphy of the Silurian System.* Deutsche Forschungsgemeinschaft (DFG - German Research Council; PI A. Munnecke; DFG Grant # Mu2352/1; BAT IIa/2 [two years of graduate funding as junior investigator] and **€22,667 [~\$27,200]**)

#### Research Grants (Internal)

- 2019 Iowa Center for Research by Undergraduates (ICRU) – Summer Fellowships. UIowa Environmental Sciences/Sanibel-Captiva Conservation Foundation Internship Program. (Internship stipend support for B.S. students Bailey Bergman and Madysen Gilbert; **\$7,500**).
- 2018 Iowa Center for Research by Undergraduates (ICRU) – Summer Fellowships. UIowa Environmental Sciences/Sanibel-Captiva Conservation Foundation Internship Program. (Internship stipend support for B.S. students Megan Powers and Claire Carlson; **\$7,500**).
- 2014 Stanley Major Projects Award. *Humanities and the Problem of Sustainability: Coming to Terms with the Anthropocene.* (Co-Organizers: Tyler Priest [HIST/GSS], Barbara Eckstein [ENGL]; **\$12,500**).
- 2014 Ida Beam Distinguished Visiting Professor Fellowship. *Dr. Lonnie G. Thompson, Byrd Polar Research Center, The Ohio State University.* (Co-Sponsored by EES and Tyler Priest [HIST/GSS]; **\$4,208**)
- 2014 Old Gold Fellowship. *U-Pb (zircon) age constraints on Silurian biogeochemical events.* (**\$6,000**)

- 2013 Obermann Center for Advanced Studies – Humanities Symposium Directorship. *Humans as a force on nature: Coming to terms with the Anthropocene*. (Co-Organizers: Tyler Priest (HIST/GSS), Barbara Eckstein (ENGL); **\$15,000**)
- 2013 Stanley Major Projects Award. *Who Will Build the 21<sup>st</sup> Century – Addressing Critical Demographic Gaps in the Geosciences and Our Ability to Research, Assess and Utilize Our Natural Resources*. (Sole Organizer; **\$12,500**)
- 2013 Iowa Center for Research by Undergraduates (ICRU) – Academic Year Fellowship. *The Frasnian-Famennian (Devonian) Boundary in Iowa*. (Undergraduate research support for B.S. student Christopher Coble; **\$2,000**).

Contracts – UIowa Micropaleontology Laboratory (Lab Lifetime Total: \$80,275)

- FY 18-19 [10] Biostratigraphy.com; [3] Renaissance Gold Corporation; [1] Iowa Geological Survey; (14 contracts total, **\$22,975**)
- FY 19-20 [14] Biostratigraphy.com; [2] S2 Resources Ltd. (16 contracts total, **\$45,000**)
- FY 20-21 [4] Biostratigraphy.com; [1] Iowa Geological Survey (5 contracts total, **\$12,300**)

**Conference Presentations and Invited Lectures** (\*Presenter, Student/Post-Doc)

**(150 Total Presentations, 41 International, 109 National, 8 Invited/Keynote, 18 Invited Lectures)**

International Conference Presentations (36 presentations, 17 as presenter, 8 student presenters)

*International Keynote Addresses/Invited Symposia Presentations*

- 2019 3<sup>rd</sup> International Stratigraphic Congress, KEYNOTE (Milan, Italy):  
\***Cramer, B.D.**, Schmitz, M.D., & Da Silva, A.C. The International Subcommittee on Timescale Calibration.
- 2014 IGCP 591 4<sup>th</sup> Ann. Meeting and ISOS, ISSS Joint Meetings, KEYNOTE (Tartu, Estonia):  
\***Cramer, B.D.**, Vandenbroucke, T.R.A., & Ludvigson, G.A.L. High-Resolution Event Stratigraphy and the quantification of stratigraphic uncertainty.
- 2012 Geol. Soc./British Geological Survey High-Fidelity Meeting, KEYNOTE (London, UK):  
\*Vandenbroucke, T.R.A. & **Cramer, B.D.** Why is high-resolution biochemostratigraphy in the Early Paleozoic imperative and how can it be achieved?

*International Symposia Presentations*

- 2019 3<sup>rd</sup> International Stratigraphic Congress, POSTER (Milan, Italy):  
\***Cramer, B.D.** The GSSP is dead. Long live the GSSP.
- 2019 3<sup>rd</sup> International Stratigraphic Congress, POSTER (Milan, Italy):  
\*Heath, M.N., Biebesheimer, E.J., Hartke, E.R., Calner, M., Oborny, S.C., Bancroft, A.M., & **Cramer, B.D.** High-resolution paired organic and carbonate carbon isotope chemostratigraphy of the Ireviken and Mulde events (Silurian) from the Altajme Drillcore, Gotland, Sweden.

- 2019 3<sup>rd</sup> International Stratigraphic Congress, TALK (Milan, Italy):  
\*McAdams, N.E.B., **Cramer, B.D.**, Bancroft, A.M., Melchin, M.J., Devera, J., & Day, J.E. Integrated conodont, graptolite, and  $\delta^{13}\text{C}$  bio-chemostratigraphy of the Silurian from the Illinois Basin: A complimentary approach.
- 2016 Subcommissions on Cambrian, Ordovician, Silurian, and Devonian (ISCS, ISOS, ISSS, ISDS) and IGCP 591 6<sup>th</sup> Annual Meeting, TALK (Ghent, Belgium):  
\***Cramer, B.D.**, McAdams, N.E.B., Bancroft, A.B., Bandy, T.L., & Devera, J.A. Conodonts, carbon isotopes, and whole-rock geochemistry of the Schlamer #1 drill core, Southern Illinois, USA: Elemental abundances during the Ireviken and Mulde biotic events.
- 2016 Subcommissions on Cambrian, Ordovician, Silurian, and Devonian (ISCS, ISOS, ISSS, ISDS) and IGCP 591 6<sup>th</sup> Annual Meeting, TALK (Ghent, Belgium):  
\*Bancroft, A.M., **Cramer, B.D.**, McAdams, N.E.B., Waid, C.B., & Hogancamp, N.J. Conodonts: Towards an Operational Taxonomic Unit.
- 2016 Subcommissions on Cambrian, Ordovician, Silurian, and Devonian (ISCS, ISOS, ISSS, ISDS) and IGCP 591 6<sup>th</sup> Annual Meeting, TALK (Ghent, Belgium):  
\*Waid, C.B., & **Cramer, B.D.** Integrated conodont biostratigraphy and carbon isotope ( $\delta^{13}\text{C}$ ) chemostratigraphy of the Llandovery (Silurian) of Iowa and its implications for global chronostratigraphic correlation.
- 2016 Subcommissions on Cambrian, Ordovician, Silurian, and Devonian (ISCS, ISOS, ISSS, ISDS) and IGCP 591 6<sup>th</sup> Annual Meeting, POSTER (Ghent, Belgium):  
\*Danielsen, E.M., & **Cramer, B.D.** Preliminary conodont data and sequence stratigraphy from the Mulde interval (Homerian) of the Wayne Formation, Tennessee, USA.
- 2016 American Association of Petroleum Geologists Annual Meeting, TALK (Calgary, CA):  
\*Bidgoli, T.S., Tyrell, J., Möller, A., **Cramer, B.D.**, & Walker, J.D. Conodont thermochronology: Expanding the utility of the (U-Th)/He method to marine carbonates and shales.
- 2015 5<sup>th</sup> International Symposium on the Silurian System and IGCP 591 5<sup>th</sup> Annual Meeting, TALK (Quebec City, Canada):  
\***Cramer, B.D.**, Davies, J.R., Männik, P., & Bancroft, A.M. Integrated bio-chemostratigraphy of the Base Telychian GSSP (Cefn Cerig Quarry, Wales).
- 2015 5<sup>th</sup> International Symposium on the Silurian System and IGCP 591 5<sup>th</sup> Annual Meeting, TALK (Quebec City, Canada):  
\*McAdams, N.E.B., **Cramer, B.D.**, Bancroft, A.M., & Witzke, B.J. First recognition of the Valgu and Llandovery carbon isotope excursions in the Illinois Basin, midcontinent United States.
- 2014 Geological Society of America National Meeting, TALK (Vancouver, BC):  
\***Cramer, B.D.**, Vandenbroucke, T.R.A., & Ludvigson, G.A.L. The quest for precision in stratigraphy and the quantification of stratigraphic uncertainty. *GSA Abstracts with Programs*, v. 46, n. 6, p. 439.
- 2014 Geological Society of America National Meeting, TALK (Vancouver, BC):  
\*Oborny, S.C., Ludvigson, G.A., Sawin, R.S., Henthorne, R.W., Heckel, P.H., & **Cramer, B.D.** High-resolution Missourian (Upper Pennsylvanian) stratigraphy of Miami County, Kansas: Integrated lithostratigraphy, biostratigraphy, and  $\delta^{13}\text{C}_{\text{carb}}$  chemostratigraphy. *GSA Abstracts with Programs*, v. 46, n. 6, p. 833.

- 2014 Geological Society of America National Meeting, TALK (Vancouver, BC):  
\*McAdams, N.E.B., Schmitz, M.D., Kleffner, M.A., Ebert, J., & **Cramer, B.D.** Recalibrating the Silurian-Devonian Boundary: A new high-precision CA-ID-TIMS date from the 'Kalkberg Bentonite'. *GSA Abstracts with Programs*, v. 46, n. 6, p. 438.
- 2014 Geological Society of America National Meeting, TALK (Vancouver, BC):  
\*Sullivan, N.B., Brett, C.E., McLaughlin, P.I., Kleffner, M.A., **Cramer, B.D.**, & Thomka, J.R. New chronostratigraphic data from the Telychian (Llandovery; Silurian) of the northern Appalachian Basin and its implications for existing sequence stratigraphic frameworks. *GSA Abstracts with Programs*, v. 46, n. 6, p. 438.
- 2014 IGCP 591 Field Meeting and ISCS, ISOS, ISSS Joint Meetings, TALK (Kunming, China):  
\***Cramer, B.D.**, Vandenbroucke, T.R.A., & Ludvigson, G.A.L. Asking old rocks new questions: High-Resolution Event Stratigraphy (HiRES) and the quantification of stratigraphic uncertainty.
- 2014 IGCP 591 4<sup>th</sup> Annual Meeting and ISOS, ISSS Joint Meetings, TALK (Tartu, Estonia):  
\*McAdams, N.E.B., Schmitz, M.D., Kleffner, M.A., Ebert, J., & **Cramer, B.D.** High-precision ID-TIMS date from the 'Kalkberg Bentonite': Recalibrating the Silurian-Devonian Boundary.
- 2013 IGCP 591 3<sup>rd</sup> Ann. Meeting and ISCS, ISOS, ISSS Joint Meetings, TALK (Lund, Sweden):  
\***Cramer, B.D.**, Schmitz, M.D., Huff, W.D., Bergström, S.M., & Kolata, D.R. Rapid geochemical change in Silurian oceans: New insights from high-precision <sup>206</sup>Pb/<sup>238</sup>U dates from Podolia, Ukraine.
- 2013 IGCP 591 3<sup>rd</sup> Ann. Meeting and ISCS, ISOS, ISSS Joint Meetings, TALK (Lund, Sweden):  
\*Sullivan, N.B., Brett, C.E., McLaughlin, P.I., Kleffner, M.A., **Cramer, B.D.**, & Thomka, J.R. Constraints on the age and correlation of two problematic Telychian (Llandovery, Silurian) stratigraphic units in Ohio and Kentucky: Synthesizing biostratigraphy,  $\delta^{13}\text{C}$  chemostratigraphy, and sequence stratigraphy.
- 2012 7<sup>th</sup> EUREGEO Meeting, TALK (Bologna, Italy):  
\*Histon, K., Aiken, C., **Cramer, B.D.**, Ferrari, E., & Trombetta, A. Stratigraphic precision and correlation in the digital age. Session 11 Mapping data and information systems, 7<sup>th</sup> EUREGEO, Bologna, 13-15<sup>th</sup> June, 2012. Abstract Volume 2, 761-762.
- 2012 34<sup>th</sup> International Geological Congress (IGC), TALK (Brisbane, Australia):  
\*Histon, K., Aiken, C., **Cramer, B.D.**, Ferrari, E., & Trombetta, A. Stratigraphic precision and correlation in the digital age: digitization and conservation of GSSPs. Symposium 35.1 GSSPs (Global boundary-stratotype section and point) as global geostandards, Theme 35. Geostandards. *34th International Geological Congress Abstract Volume*, p. 502, abstract #1511.
- 2011 Subcom. on Silurian Strat. & IGCP 591 1<sup>st</sup> Annual Meeting, TALK (Ludlow, England):  
\***Cramer, B.D.**, Condon, D.J., Söderlund, U., Marshall, C., Calner, M., Ray, D.C., Jeppsson, L., Thomas, A.T., Perrier, V., Worton, G.J., Boomer, I., & Patchett, P.J. Extinctions, Excursions, Events, and Epiboles (or was that Hyperbole?).
- 2009 Subcommission on Silurian Stratigraphy, POSTER (Sardinia, Italy):  
**Cramer, B.D.**, Loydell, D.K., Samtleben, C., Munnecke, A., Kaljo, D., Männik, P., Martma, T., Jeppsson, L., Kleffner, M.A., \*Barrick, J.E., & Saltzman, M.R. Integrated high-resolution chronostratigraphy of the Telychian and Sheinwoodian stages: Conodonts, graptolites, isotopes, and the future of Paleozoic chronostratigraphy.
- 2008 IGCP 503 5<sup>th</sup> Annual Meeting, TALK (Lille, France):  
\***Cramer, B.D.**, Loydell, D.K., Munnecke, A., Kaljo, D., Männik, P., Martma, T., Jeppsson, L., Kleffner, M.A., Barrick, J.E., Johnson, C.A., Emsbo, P., & Saltzman, M.R.

- Bringing the Lower Paleozoic into the 21<sup>st</sup> Century: A case study of methods, objectives, pitfalls, and potential of high-resolution (<500,000yrs) integrated global chronostratigraphic correlation in the Silurian, in Kröger, B., and Servais, T. (eds.): Paleozoic Climates – Abstracts. *IGCP 503 Annual Meeting, International Congress – Congrès international, Aug. 22-31, 2008 Lille, France*. <http://www.sarv.gi.ee/igcp503>
- 2008 IGCP 503 5<sup>th</sup> Annual Meeting, POSTER (Lille, France):  
\***Cramer, B.D.**, McLaughlin, P.I., Kleffner, M.A., & Brett, C.E. ‘Paleozoic stratigraphy has all been done before’: An opposing view from Silurian high-resolution stratigraphy across the Cincinnati Arch, in Kröger, B., and Servais, T. (eds.): Paleozoic Climates – Abstracts. *IGCP 503 Annual Meeting, International Congress – Congrès international, Aug. 22-31, 2008 Lille, France*. <http://www.sarv.gi.ee/igcp503>
- 2008 IGCP 503 5<sup>th</sup> Annual Meeting, TALK (Lille, France):  
\*Meyers, S.R., **Cramer, B.D.**, Jeppsson, L., Corfield, R.M., Siveter, D.J., & Munnecke, A. Towards the establishment of a Silurian astrochronology, in Kröger, B., and Servais, T. (eds.): Paleozoic Climates – Abstracts. *IGCP 503 Annual Meeting, International Congress – Congrès international, Aug. 22-31, 2008 Lille, France*. <http://www.sarv.gi.ee/igcp503>
- 2006 IGCP 503 3<sup>rd</sup> Annual Meeting, TALK (Glasgow, Scotland):  
\***Cramer, B.D.**, Saltzman, M.R., Bergström, S., Kleffner, M.A., Munnecke, A., Loydell, D.K., Brett, C.E., Jeppsson, L., Calner, M., Day, J., Witzke, B., Kershaw, S., Diaz-Martinez, E., & Young, S.A. Chronostratigraphic significance of high-resolution  $\delta^{13}\text{C}_{\text{carb}}$  stratigraphy: The role of carbon isotopes and the future of Paleozoic stratigraphy, in Owen, A.W. (ed.): Changing palaeogeographic and palaeobiogeographical patterns in the Ordovician and Silurian. *IGCP 503 Annual Meeting, University of Glasgow, Programme, Abstracts, and Field Excursion Guides*.
- 2006 Second International Palaeontological Congress, TALK (Beijing, P.R. China):  
\*Su, W., Fu, L., Munnecke, A., **Cramer, B.D.**, Yan, J., & Zhang, Z. Preliminary analyses of the flysch-dominated succession (Hirnantian-Lower Sheinwoodian), in Ziyang, Shaanxi, northwestern margin of Yangtze Block: responses to glacial eustasy?, in Yang Qun, Wang Yongdong, Elizabeth A. Weldon (eds.), *Ancient life and modern approaches: Abstracts of the Second International Palaeontological Congress (Beijing, June 17-21, 2006, Beijing, China)*. University of Science and Technology of China Press, Hefei. p. 322.
- 2005 Subcommission on Silurian Stratigraphy, TALK (Gotland, Sweden):  
\***Cramer, B.D.**, Jeppsson, L., Munnecke, A., Saltzman, M.R., & Kershaw, S. A unified Silurian oceanographic model: past, present and future. *Sveriges Geologiska Undersökning, Rapport och meddelanden*, v. 121, p. 64-65.
- 2005 Subcommission on Silurian Stratigraphy, POSTER (Gotland, Sweden):  
\***Cramer, B.D.**, Saltzman, M.R., & Kleffner, M.A. Revised Telychian-Sheinwoodian stratigraphy of North America: Chemostratigraphic correlation across the Laurentian craton. *Sveriges Geologiska Undersökning, Rapport och meddelanden*, v. 121, p. 65.
- 2005 Earth Systems Processes II, TALK (Calgary, Canada):  
\***Cramer, B.D.**, & Saltzman, M.R. A comparison of the Neoproterozoic and Paleozoic carbon cycles. *Paper #45-4*
- 2005 Earth Systems Processes II, POSTER (Calgary, Canada):  
\*Day, J., **Cramer, B.D.**, Saltzman, M.R., & Witzke, B.J. Central North American record of the global Hangenberg carbon isotope excursion in an epeiric sea setting: Variations in carbonate production and organic carbon burial in the late Famennian. *Paper #21-2*



- 2004 32<sup>nd</sup> International Geological Congress, POSTER (Florence, Italy):  
\***Cramer, B.D.**, & Saltzman, M.R. Carbon Isotope Stratigraphy and Carbonate Sedimentology from the Llandovery-Wenlock Boundary in North America: Interpreting the Ireviken Excursion.
- 2004 IGCP 503 1<sup>st</sup> Annual Meeting, TALK (Erlangen, Germany):  
\***Cramer, B.D.**, & Saltzman, M.R. Glaciation, CO<sub>2</sub>, and organic carbon burial in the early Silurian (Wenlock). *Erlanger Geologische Abhandlungen, Sonderband 5*, p. 29.

International Invited Lectures/Colloquia (5 Invited Lectures/Colloquia/Workshops)

- 2020 Invited Seminar/Workshop, Universiteit Gent, Belgium (Ghent, Belgium):  
\***Cramer, B.D.** Stratigraphic uncertainty and the quest for precision in stratigraphy (*Invited Seminar and Workshop*)
- 2011 Neftex Petroleum Consultants Ltd., Invited Talk (Abingdon, England):  
\***Cramer, B.D.** Paleozoic sequence stratigraphy: Rocks, time, and the practical application of sequence stratigraphic principles to Paleozoic strata (*Invited Lecture*).
- 2006 Invited Lecture Series (Wuhan, Nanjing, Beijing, P.R. China):  
\***Cramer, B.D.**, & Saltzman, M.R. Oxygen, oceanography, and the evolution of the global carbon cycle; Maybe ‘Snowball’s’ not so crazy after all. (*Invited Lectures*).

National Conference Presentations (95 presentations, 26 as presenter, 48 student presenters)

National Keynote Addresses/Invited Symposia Presentations

- 2019 IsoAstro – NSF Geochronology Workshop, KEYNOTE/INSTRUCTOR (Rock Springs, WY):  
\***Cramer, B.D.**, The stratigraphic framework: Bio-chemo-magneto-litho-stratigraphy.
- 2016 IsoAstro – NSF Geochronology Workshop, KEYNOTE/INSTRUCTOR (Boise, ID):  
\***Cramer, B.D.**, The stratigraphic framework: Bio-chemo-magneto-litho-stratigraphy.
- 2015 Geological Society of America National Meeting, INVITED SPEAKER (Baltimore, MD):  
\***Cramer, B.D.** What’s a few cm’s between friends?: Paleobiogeographic diachroneity and the GSSP concept at the Devonian-Carboniferous Boundary. *GSA Abstracts with Programs*, v. 47, n. 7, p. 633.
- 2014 IsoAstro – NSF Geochronology Workshop, KEYNOTE/INSTRUCTOR (Madison, WI):  
\***Cramer, B.D.**, The stratigraphic framework: Bio-chemo-magneto-litho-stratigraphy.
- 2013 Geological Society of America National Meeting, INVITED SPEAKER (Denver, CO):  
\***Cramer, B.D.**, Schmitz, M.D., Huff, W.D., Bergström, S.M., & Kolata, D.R. So what is the Deep Time Earth History Revolution? *GSA Abstracts with Programs*, v. 45, n. 7, p. 239.

*National Symposia Presentations*

- 2020 Geological Society of America, National Meeting, TALK (ONLINE MEETING): Heath, M.N., **Cramer, B.D.**, Stolfus, B.M., Clark, R.J., Day, J.E., Tassier-Surine, S.A., & Barnes, G.L., High-resolution paired organic and carbonate carbon isotope chemostratigraphy of the Hangenberg Event from H28 and H32 cores in southeast Iowa. *GSA Abstracts with Programs*, v. 52, n. 6, doi:10.1130/abs/2020AM-359740
- 2019 Geological Society of America, National Meeting, TALK (Phoenix, AZ): \***Cramer, B.D.**, Sullivan, N.B., Bancroft, A.M., & McAdams, N.E.B., Quantifying biostratigraphic uncertainty for Bayesian timescale calibration. *GSA Abstracts with Programs*, v. 51, n. 5, doi: 10.1130/abs/2019AM-338765.
- 2019 Geological Society of America, National Meeting, TALK (Phoenix, AZ): \*Stolfus, B.M., Hogancamp, N.J., **Cramer, B.D.**, Day, J.E., Clark, R.J., & Tassier-Surine, S.A., A revised conodont biozonation for the Kinderhookian (Lower Mississippian). *GSA Abstracts with Programs*, v. 51, n. 5, doi: 10.1130/abs/2019AM-338906.
- 2019 Geological Society of America, National Meeting, TALK (Phoenix, AZ): \*Hartke, E.R., **Cramer, B.D.**, Calner, M., Oborny, S.C., & Bancroft, A.M., High-resolution paired organic and carbonate carbon isotope chemostratigraphy of the Ireviken Excursion (Silurian) from the Altajme core, Gotland Sweden. *GSA Abstracts with Programs*, v. 51, n. 5, doi: 10.1130/abs/2019AM-337521.
- 2019 Geological Society of America, National Meeting, TALK (Phoenix, AZ): \*Oborny, S.C., **Cramer, B.D.**, Brett, C.E., & Bancroft, A.M., Providing HiRES chronostratigraphic constraint to the upper Silurian Salina Group within the Appalachian and Michigan Basins. *GSA Abstracts with Programs*, v. 51, n. 5, doi: 10.1130/abs/2019AM-340891.
- 2019 Geological Society of America, National Meeting, TALK (Phoenix, AZ): McAdams, N.E.B., Bancroft, A.M., Hogancamp, N.J., & **Cramer, B.D.**, Large-scale patterns in conodont morphology: Platformed pectiniform (Pa/P1) elements through the conodontozoic. *GSA Abstracts with Programs*, v. 51, n. 5, doi: 10.1130/abs/2019AM-338102.
- 2019 Geological Society of America, National Meeting, POSTER (Phoenix, AZ): \*Shohel, M., Ray, K.K., Tivanski, A.V., **Cramer, B.D.**, & Forbes, T.Z., X-ray diffraction and nanoindentation on conodont microfossils revealed variation of mechano-structural properties along the length of conical elements. *GSA Abstracts with Programs*, v. 51, n. 5, doi: 10.1130/abs/2019AM-333924.
- 2019 Geological Society of America, National Meeting, POSTER (Phoenix, AZ): \*Heath, M.N., Stolfus, B.M., **Cramer, B.D.**, Day, J.E., Rowe, H.D., Clark, R.J., & Tassier-Surine, S.A., High-resolution integrated conodont and carbonate carbon isotope chemostratigraphy of the Hangenberg Excursion from the H-28 and H-32 cores, Burlington, Iowa. *GSA Abstracts with Programs*, v. 51, n. 5, doi: 10.1130/abs/2019AM-339377.
- 2019 Geological Society of America, National Meeting, POSTER (Phoenix, AZ): \*Biebesheimer, E.J., **Cramer, B.D.**, Calner, M., Oborny, S.C., & Bancroft, A.M., Paired organic and carbonate carbon isotope chemostratigraphy of the Mulde Excursion from the Altajme core, Gotland, Sweden. *GSA Abstracts with Programs*, v. 51, n. 5, doi: 10.1130/abs/2019AM-340206.

- 2019 Geological Society of America, National Meeting, POSTER (Phoenix, AZ):  
\*Barnes, G.L., Trayler, R.B., **Cramer, B.D.**, Calner, M., Bancroft, A.M., & Oborny, S.C., A Bayesian age-depth model for the Silurian Altajme core, Gotland, Sweden. *GSA Abstracts with Programs*, v. 51, n. 5, doi: 10.1130/abs/2019AM-337871.
- 2019 Geological Society of America, National Meeting, POSTER (Phoenix, AZ):  
\*Gilbert, M.H., Reidenbach, L.B., Milbrandt, E.C., & **Cramer, B.D.**, Nutrient analysis of the Caloosahatchee River and Estuary of southwest Florida. *GSA Abstracts with Programs*, v. 51, n. 5, doi: 10.1130/abs/2019AM-339435.
- 2019 Geological Society of America, National Meeting, POSTER (Phoenix, AZ):  
\*O'Grady, A.K., Stolfus, B.M., Hogancamp, N.J., **Cramer, B.D.**, Clark, R.J., & Tassier-Surine, S.A., Morphometric analysis of the conodont genus *Elictognathus* and its relationship to the genus *Siphonodella*. *GSA Abstracts with Programs*, v. 51, n. 5, doi: 10.1130/abs/2019AM-339218.
- 2019 Geological Society of America, National Meeting, POSTER (Phoenix, AZ):  
\*Bergman, B., **Cramer, B.D.**, & Milbrandt, E., Phytoplankton analysis of Caloosahatchee River and Estuary, southwest Florida. *GSA Abstracts with Programs*, v. 51, n. 5, doi: 10.1130/abs/2019AM-337407.
- 2019 National Science Foundation – GEOPATHS PI Meeting, TALK (Alexandria, VA):  
\***Cramer, B.D.**, GEOPATHS-IOWA: Leveraging adoption of the Next Generation Science Standards (NGSS) and improving geoscience education in the State of Iowa.
- 2019 Geological Society of America, North Central Meeting, POSTER (Manhattan, KS):  
\*Hartke, E.R., **Cramer, B.D.**, Oborny, S.C., & Bancroft, A.M., Examining the coincidence of organic and carbonate carbon isotope perturbations during the Ireviken Extinction Event (Wenlock, Silurian). *Abstract # 327312*.
- 2019 Geological Society of America, North Central Meeting, POSTER (Manhattan, KS):  
\*Biebesheimer, E.J., **Cramer, B.D.**, Oborny, S.C., & Bancroft, A.M., Paired organic and carbonate carbon isotope chemostratigraphy of the Mulde Excursion from the Altajme core, Gotland, Sweden. *Abstract # 327313*.
- 2019 Geological Society of America, North Central Meeting, POSTER (Manhattan, KS):  
\*Carlson, C., Milbrandt, E., & **Cramer, B.D.**, Macroalgae aquaculture in southwestern Florida as a potential tool for nutrient sequestration. *Abstract # 327534*.
- 2019 Iowa Space Grant Consortium Meeting, TALK and POSTER (Des Moines, IA):  
\*Hartke, E.R., **Cramer, B.D.**, Oborny, S.C., & Bancroft, A.M., Paired organic and carbonate carbon isotope chemostratigraphy of the Silurian Ireviken Event.
- 2018 Geological Society of America, National Meeting, TALK (Indianapolis, IN):  
\***Cramer, B.D.**, EARTHTIME and the International Commission on Stratigraphy: Integrating geochronology and chronostratigraphy to achieve EARTHSTRATES objectives. *GSA Abstracts with Programs*, v. 50, n. 6, doi: 10.1130/abs/2018AM-323819.
- 2018 Geological Society of America, National Meeting, TALK (Indianapolis, IN):  
\*Shohel, M., **Cramer, B.D.**, & Forbes, T.Z., Systematic assessment of crystalline structure along the length of conical conodont microfossils using microfocuss x-ray diffraction. *GSA Abstracts with Programs*, v. 50, n. 6, doi: 10.1130/abs/2018AM-323231.
- 2018 Geological Society of America, National Meeting, POSTER (Indianapolis, IN):  
\*Carlson, C., Milbrandt, E., & **Cramer, B.D.**, Testing aquaculture techniques on the growth rates of macroalgae in Tarpon Bay, SW Florida. *GSA Abstracts with Programs*, v. 50, n. 6, doi: 10.1130/abs/2018AM-323550.

- 2018 Geological Society of America, National Meeting, POSTER (Indianapolis, IN):  
\*Powers, M., Milbrandt, E., & **Cramer, B.D.**, Factors impacting Lucinid bivalve and seagrass symbioses within the Sanibel-Captiva area, SW Florida. *GSA Abstracts with Programs*, v. 50, n. 6, doi: 10.1130/abs/2018AM-323269.
- 2018 Geological Society of America, National Meeting, POSTER (Indianapolis, IN):  
\*Stolfus, B.M., **Cramer, B.D.**, Clark, R.J., Day, J., Hogancamp, N.J., Tassier-Surine, S., & Witzke, B.J., Tournaisian conodont biostratigraphy of the Type Kinderhookian area of Iowa, Illinois, and Missouri. *GSA Abstracts with Programs*, v. 50, n. 6, doi: 10.1130/abs/2018AM-322865.
- 2018 Geological Society of America, National Meeting, POSTER (Indianapolis, IN):  
\*McAdams, N.E.B., **Cramer, B.D.**, Bancroft, A.M., Melchin, M.J., Devera, J., & Day, J.E., Regional and global chrono- and bio-chemostratigraphic contributions of the Schlamer #1 core (Silurian, Illinois Basin). *GSA Abstracts with Programs*, v. 50, n. 6, doi: 10.1130/abs/2018AM-324273.
- 2018 Geological Society of America, National Meeting, POSTER (Indianapolis, IN):  
\*Oborny, S.C., Bancroft, A.M., Brett, C.E., & **Cramer, B.D.**, Revisions to the chronostratigraphic correlation of Wenlock-Pridoli (Silurian) strata of the South-Central and Western margins of the Appalachian Basin. *GSA Abstracts with Programs*, v. 50, n. 6, doi: 10.1130/abs/2018AM-318734.
- 2018 Geological Society of America, National Meeting, POSTER (Indianapolis, IN):  
\*Bancroft, A.M., **Cramer, B.D.** & Oborny, S.C., Silurian conodont biostratigraphy of the Appalachian Basin: A re-examination of C.T. Helfrich's collections. *GSA Abstracts with Programs*, v. 50, n. 6, doi: 10.1130/abs/2018AM-322086.
- 2018 Geological Society of America, National Meeting, POSTER (Indianapolis, IN):  
\*Tierney Cramer, K., Kosloski, M.E., Neal, T., Tassier-Surine, S.A., Witzke, B.J., & **Cramer, B.D.**, Filling the geoscience student pipeline: Utilizing non-field camp field courses for recruitment and retention of undergraduate students in the geosciences. *GSA Abstracts with Programs*, v. 50, n. 6, doi:10.1130/abs/2018AM-323670.
- 2018 American Association of Petroleum Geologists, National Meeting, POSTER (Salt Lake City, UT):  
\***Cramer, B.D.**, Stolfus, B.M., Clark, R.J., Hogancamp, N., Day, J.E., Witzke, B.J. & Surine, S., High-resolution eustatic sea level reconstruction across the Devonian-Carboniferous boundary from the Tri-State area of Iowa, Illinois, and Missouri: Conodonts, carbon isotopes, and sequence stratigraphy of the Type Kinderhookian Region.
- 2018 Geological Society of America, North Central Meeting, TALK (Ames, IA):  
\***Cramer, B.D.**, Bancroft, A.M., McAdams, N.E.B., Melchin, M.J., Devera, J., & Day, J.E., Conodont biostratigraphy of the Schlamer #1 core and revisions to the Silurian conodont zonation for the Geologic Time Scale 2020. *GSA Abstracts with Programs*, v. 50, n. 4, doi: 10.1130/abs/2018NC-312724.
- 2018 Geological Society of America, North Central Meeting, POSTER (Ames, IA):  
\*Shohel, M., **Cramer, B.D.**, & Forbes, T.Z., Studying crystalline structures of conodont microfossils with X-ray diffraction. *GSA Abstracts with Programs*, v. 50, n. 4, doi: 10.1130/abs/2018NC-312153.
- 2018 Geological Society of America, North Central Meeting, POSTER, (Ames, IA):  
\*Oborny, S.C., Bancroft, A.M., Brett, C.E., & **Cramer, B.D.**, Improving chronostratigraphic correlation of Wenlock-Pridoli (Silurian) strata in the Appalachian Foreland Basin (Virginia, West Virginia, Ohio) through the use of High-Resolution Event Stratigraphy (HiRES). *GSA Abstracts with Programs*, v. 50, n. 4, doi: 10.1130/abs/2018NC-312745.

- 2018 Geological Society of America, North Central Meeting, POSTER, (Ames, IA):  
\*McAdams, N.E.B., **Cramer, B.D.**, Bancroft, A.M., Melchin, M.J., Devera, J., & Day, J.E., Stratigraphic revision and high-resolution chronostratigraphic correlation of the Silurian Bainbridge Group, Illinois Basin. *GSA Abstracts with Programs*, v. 50, n. 4, doi: 10.1130/abs/2018NC-313090.
- 2018 Geological Society of America, North Central Meeting, POSTER, (Ames, IA):  
\*Stolfus, B.M., Clark, R.J., Tassier-Surine, S.A., Day, J.E., Witzke, B.J., & **Cramer, B.D.**, Revised conodont biostratigraphy of the Devonian-Carboniferous boundary interval in southeast Iowa. *GSA Abstracts with Programs*, v. 50, n. 4, doi: 10.1130/abs/2018NC-313077.
- 2018 Geological Society of America, North Central Meeting, POSTER, (Ames, IA):  
\*Trembath, M. & **Cramer, B.D.**, Searching for geochemical signatures of step-wise extinction levels during the Ireviken and Mulde (Silurian) extinction events. *GSA Abstracts with Programs*, v. 50, n. 4, doi: 10.1130/abs/2018NC-312695.
- 2017 Geological Society of America, National Meeting, TALK (Seattle, WA):  
\***Cramer, B.D.**, Bancroft, A.M., McAdams, N.E.B., & Waid, C.B. Iterative evolution of fused denticles (spatulate forms) in the aftermath of successive Silurian biogeochemical events. *GSA Abstracts with Programs*, v. 49, n. 6, doi: 10.1130/abs/2017AM-306250.
- 2017 Geological Society of America, National Meeting, TALK (Seattle, WA):  
\*McAdams, N.E.B., **Cramer, B.D.**, Bancroft, A.M., & Waid, C.B. What's in a name? Conodont diversity dynamics and importance of a standardized taxonomic nomenclature. *GSA Abstracts with Programs*, v. 49, n. 6, doi: 10.1130/abs/2017AM-308322.
- 2017 Geological Society of America, National Meeting, POSTER (Seattle, WA):  
\*Clark, R.J., Stolfus, B.M., **Cramer, B.D.**, Day, J.E., Witzke, B.J., & Tassier-Surine, S. Revisiting the Devonian-Carboniferous boundary interval in the U.S. Midcontinent, including the type Kinderhook area of Illinois, Missouri, and Iowa. *GSA Abstracts with Programs*, v. 49, n. 6, doi: 10.1130/abs/2017AM-301523.
- 2017 Geological Society of America, National Meeting, POSTER (Seattle, WA):  
\*Stolfus, B.M., Clark, R.J., Tassier-Surine, S.A., Day, J.E., Witzke, B.J., & **Cramer, B.D.** Revised conodont biostratigraphy of the Kinderhookian (lower Tournaisian) strata in southeast Iowa. *GSA Abstracts with Programs*, v. 49, n. 6, doi: 10.1130/abs/2017AM-306613.
- 2017 Geological Society of America, National Meeting, POSTER (Seattle, WA):  
\*Trembath, M., & **Cramer, B.D.** Searching for geochemical signatures of step-wise extinction levels during the Ireviken (Silurian) extinction event. *GSA Abstracts with Programs*, v. 49, n. 6, doi: 10.1130/abs/2017AM-303974.
- 2017 Geological Society of America, National Meeting, POSTER (Seattle, WA):  
\*Tierney Cramer, K., Kosloski, M.E., Neal, T., Tassier-Surine, S.A., Witzke, B.J., & **Cramer, B.D.** Integrating levelled 'non-field camp' field courses into departmental curricula to achieve awareness, engagement, and professional preparation: Expanding the geoscience student pipeline. *GSA Abstracts with Programs*, v. 49, n. 6, doi: 10.1130/abs/2017AM-308200.
- 2017 Geological Society of America, National Meeting, POSTER (Seattle, WA):  
\*Oborny, S.C., Bancroft, A.M., Brett, C.E., & **Cramer, B.D.** Using high-resolution event stratigraphy (HiRES) to revise the chronostratigraphic correlation of Wenlock-Pridoli (Silurian) strata of the central and western Appalachian Foreland Basin (Ohio, West Virginia, Virginia). *GSA Abstracts with Programs*, v. 49, n. 6, doi: 10.1130/abs/2017AM-307815.

- 2017 Geological Society of America, National Meeting, POSTER (Seattle, WA):  
\*Danielsen, E.M., **Cramer, B.D.**, & Kleffner, M.A. High-resolution chronostratigraphic correlation of upper Homeric (Silurian) strata during the Mulde Event, Midcontinent, USA. *GSA Abstracts with Programs*, v. 49, n. 6, doi: 10.1130/abs/2017AM-307506.
- 2017 American Association of Petroleum Geologists, Mid-Continent Section Meeting, POSTER (Oklahoma City, OK):  
\*Oborny, S.C., **Cramer, B.D.**, Heckel, P.H., Ludvigson, G.A., & Henthorne, R.W. Expanding the build-and-fill model: 'Phylloid-algal' carbonate mound development.
- 2017 American Association of Petroleum Geologists National Meeting, POSTER (Houston, TX): \***Cramer, B.D.** Space, things, time, and events: Horacio Harrington, Derek Ager, and the dichotomous future of sequence stratigraphy.
- 2016 Geological Society of America National Meeting, TALK (Denver, CO):  
\***Cramer B.D.**, McAdams, N.E.B., Bancroft, A.M., Bandy, T.L., & Devera, J., Integrated high-resolution biochemostratigraphy of the Schlamer #1 drill core, Southern Illinois, USA: Marine redox cycling during the Ireviken and Mulde positive carbon isotope excursions. *GSA Abstracts with Programs*, v. 48, n. 7, doi:10.1130/abs/2016AM-286225.
- 2016 Geological Society of America National Meeting, TALK (Denver, CO):  
\*McAdams, N.E.B., **Cramer, B.D.**, Bancroft, A.M., Bandy, T.L., Day, J., & Devera, J., The Ireviken and Mulde (Silurian, Wenlock) positive carbon isotope excursions in the Illinois Basin, Southern Illinois. *GSA Abstracts with Programs*, v. 48, n. 7, doi:10.1130/abs/2016AM-287779.
- 2016 Geological Society of America National Meeting, TALK (Denver, CO):  
\*Oborny, S.C., & **Cramer, B.D.**, Catch-down cyclothems from the Pennsylvanian of Kansas. *GSA Abstracts with Programs*, v. 48, n. 7, doi:10.1130/abs/2016AM-286997.
- 2016 Geological Society of America National Meeting, TALK (Denver, CO):  
\*Danielsen, E.M., & **Cramer, B.D.**, Preliminary biochemostratigraphy of the Mulde interval (Homeric), Wayne Formation, Tennessee, USA. *GSA Abstracts with Programs*, v. 48, n. 7, doi:10.1130/abs/2016AM-284002.
- 2016 Geological Society of America National Meeting, TALK (Denver, CO):  
\*Bandy, T.L., **Cramer, B.D.**, & Devera, J., Portable X-ray fluorescence (pXRF) as a reconnaissance tool for high-resolution global biogeochemical studies. *GSA Abstracts with Programs*, v. 48, n. 7, doi:10.1130/abs/2016AM-283483.
- 2016 Geological Society of America National Meeting, TALK (Denver, CO):  
\*Tyrell, J.P., Bidgoli, T.S., Möller, A., Stockli, D.F., **Cramer, B.D.**, & Walker, D., Challenges associated with the conodont (U-Th)/He method: A case study from the Mormon Mountains, Tule Spring Hills, and Beaver Dam Mountains, Southeastern Nevada and Southwestern Utah. *GSA Abstracts with Programs*, v. 48, n. 7, doi:10.1130/abs/2016AM-286505.
- 2016 Spring Undergraduate Research Forum, University of Iowa, POSTER (Iowa City, IA):  
\*Bandy, T.L., **Cramer, B.D.**, Portable X-ray fluorescence (pXRF) as a reconnaissance tool for high-resolution global biogeochemical studies.
- 2016 Research in the Capitol, Iowa State Capitol Rotunda, POSTER (Des Moines, IA):  
\*Bandy, T.L., **Cramer, B.D.**, Portable X-ray fluorescence (pXRF) as a reconnaissance tool for high-resolution global biogeochemical studies.

- 2016 Geological Society of America, North Central Section Meeting, TALK (Champaign, IL):  
\*McAdams, N.E.B., Cramer, B.D., Bancroft, A.M., Bandy, T.L., Day, D., & Devera, J. The Ireviken and Mulde carbon isotope excursions in the Illinois Basin, Southern Illinois. *GSA Abstracts with Programs*, v. 48, n. 5, doi:10.1130/abs/2016NC-275676.
- 2015 Geological Society of America National Meeting, TALK (Baltimore, MD):  
\***Cramer, B.D.** IGCP 591 and the legacy of two decades of IGCP projects on our understanding of the Early to Middle Paleozoic world. *GSA Abstracts with Programs*, v. 47, n. 7, p. 438.
- 2015 Geological Society of America National Meeting, TALK (Baltimore, MD):  
\*McAdams, N.E.B., **Cramer, B.D.**, Bancroft, A.M., & Witzke, B.J. Recognition of the Late Aeronian, Valgu and Ireviken carbon isotope excursions in the Illinois Basin, midcontinent United States. *GSA Abstracts with Programs*, v. 47, n. 7, p. 829.
- 2015 Geological Society of America National Meeting, TALK (Baltimore, MD):  
\*Oborny, S.C., Ludvigson, G.A., Henthorne, B., Heckel, P.H., & **Cramer, B.D.** Depositional build-and-fill within the Zarah Subgroup (Upper Pennsylvanian, Missourian Stage) of Miami County, Kansas: Integrated lithostratigraphy, biostratigraphy,  $\delta^{13}\text{C}_{\text{carb}}$  chemostratigraphy, and geophysical well-log data. *GSA Abstracts with Programs*, v. 47, n. 7, p. 652.
- 2015 Geological Society of America National Meeting, TALK (Baltimore, MD):  
\*Waid, C.B., & **Cramer, B.D.** Conodont biostratigraphy and carbon isotope chemostratigraphy of the Llandovery (Silurian) Blanding, Hopkinton, Scotch Grove, and LaPorte City formations of Iowa (NW Illinois Basin). *GSA Abstracts with Programs*, v. 47, n. 7, p. 273.
- 2015 Geological Society of America Northeastern Section Meet., TALK (Bretton Woods, NH):  
\*Ebert, J.R., McAdams, N.E.B., Schmitz, M.D., Kleffner, M.A., & **Cramer, B.D.** Recalibrating the Silurian-Devonian boundary: Combining a new high-precision CA-ID-TIMS U-Pb age with chitinozoan biostratigraphy. *GSA Abstracts with Programs*, v. 47, n. 3, p. 108.
- 2014 Spring Undergraduate Research Forum, University of Iowa, POSTER (Iowa City, IA):  
\*Coble, C.R., Reynolds, J., Day, J.E., & **Cramer, B.D.** Organic carbon isotope stratigraphy as a tool for identifying the Devonian-Carboniferous boundary in the mid-continent of North America.
- 2014 Research in the Capitol, Iowa State Capitol Rotunda, POSTER (Des Moines, IA):  
\*Coble, C.R., Reynolds, J., Day, J.E., & **Cramer, B.D.** Organic carbon isotope stratigraphy as a tool for identifying the Devonian-Carboniferous boundary in the mid-continent of North America.
- 2013 Geological Society of America National Meeting, TALK (Denver, CO):  
\***Cramer B.D.**, & Hasiuk, F. Chemical Limitations on a Similarly Suitable Mother (CLASS-M): Are snowballs a mandatory phase in the development of an oxygenated atmosphere? *GSA Abstracts with Programs*, v. 45, n. 7, p. 235.
- 2013 Geological Society of America National Meeting, TALK (Denver, CO):  
\*Rodriguez-Gomez, M.I., **Cramer, B.D.**, & Aiken, C.L.V. The Digital Integrated Stratigraphy Project (DISP) Development Phase II: A graphical user interface for the web-based open access digital resource for stratigraphy. *GSA Abstracts with Programs*, v. 45, n. 7, p. 234.

- 2013 Geological Society of America National Meeting, TALK (Denver, CO):  
\*Day, J.E., **Cramer, B.D.**, Saltzman, M.R., Witzke, B.J., Rowe, H., & Ellwood, B.B. Role of the Hangenberg Excursion and magnetic susceptibility stratigraphy in selection of a new Devonian-Carboniferous System Boundary. *GSA Abstracts w/ Prog.*, v. 45, n. 7, p. 239.
- 2013 Geological Society of America National Meeting, POSTER (Denver, CO):  
\*Moertle, J.A., Hasiuk, F., & **Cramer B.D.** Elemental and isotopic chemostratigraphy of the Louisville Section, Silurian of Kentucky. *GSA Abstracts w/ Prog.*, v. 45, n. 7, p. 136.
- 2012 Geological Society of America National Meeting, TALK (Charlotte, NC):  
\***Cramer, B.D.** & Vandenbroucke, T.R.A. High Fidelity: The deep time Earth history revolution. *GSA Abstract with Programs*, v. 44, n. 7, p. 330.
- 2012 Geological Society of America National Meeting, POSTER (Charlotte, NC):  
\*Melchin, M.J., Sadler, P.M., Cooper, R. & **Cramer, B.D.** The 2012 Geologic Time Scale for the Ordovician and Silurian systems: Advances and challenges. *GSA Abstracts with Programs*, v. 44, n. 7, p. 588.
- 2012 Geological Society of America National Meeting, POSTER (Charlotte, NC):  
\*Oborny, S., **Cramer, B.D.**, Ludvigson, G.A. & Henthorne, R.W. Limestone aggregate resources in Kansas: Integrated lithostratigraphy, chemostratigraphy, and cathodoluminescence as a tool to evaluate current and potential aggregate resources in Miami County, NE Kansas. *GSA Abstracts with Programs*, v. 44, n. 7, p. 130.
- 2012 IGCP 591 2<sup>nd</sup> Annual Meeting, TALK (Cincinnati, OH):  
\*Rodriguez, M.I., Burnham, B., Wang, M., Chen, L., Aiken, C., & **Cramer, B.D.** On-site 3D access, analysis and integration of Silurian Bisher and Lilley Formation, Measley Ridge, Ohio, using digital tablets and a 3D photorealistic model at the IGCP 591 2<sup>nd</sup> Annual Meeting and 1<sup>st</sup> Foerste Symposium. *IGCP 591 2<sup>nd</sup> Annual Meeting Abstracts Volume*, p. 28.
- 2012 IGCP 591 2<sup>nd</sup> Annual Meeting, POSTER (Cincinnati, OH):  
\*Burnham, B., Rodriguez, M.I., Wang, M., White, L., Aiken, C.L.V., & **Cramer, B.D.** Digital mapping and development of a 3D photorealistic model of the Silurian Bisher and Lilley formations, Measley Ridge, Ohio, in preparation for the IGCP 591 2<sup>nd</sup> Annual Meeting and 1<sup>st</sup> Foerste Symposium. *IGCP 591 2<sup>nd</sup> Annual Meeting Abstracts Volume*, p. 9.
- 2012 IGCP 591 2<sup>nd</sup> Annual Meeting, TALK (Cincinnati, OH):  
\*Verniers, J., Van de Moortel, I., Steeman, T., Mortier, J., Vandenbroucke, T.R.A., **Cramer, B.D.**, Brett, C.E., & Kleffner, M.A. The Tryon Park controversy: A combined chitinozoan and conodont restudy. *IGCP 591 2<sup>nd</sup> Annual Meeting Abstracts Volume*, p. 37.
- 2011 Geological Society of America National Meeting, TALK (Minneapolis, MN):  
\***Cramer, B.D.**, Condon, D.J., Söderlund, U., Marshall, C., Calner, M., Ray, D.C., Jeppsson, L., Thomas, A.T., Perrier, V., Worton, G.J., Boomer, I., & Patchett, P.J. What's in a name: Extinctions, Excursions, Events, and Epiboles (or was this Hyperbole?). *GSA Abstracts with Programs*, v. 43, n. 5, p. 51.
- 2011 Geological Society of America National Meeting, TALK (Minneapolis, MN):  
Munnecke, A., \***Cramer, B.D.**, Söderlund, U., Aiken, C.L., Kharwat, R., Schofield, D.I., & Boon, D.P. The Digital Integrated Stratigraphy Project (DISP): Quantifying the deep time high-resolution chronostratigraphic revolution. *GSA Abstracts with Programs*, v. 43, n. 5, p. 569.



- 2011 Geological Society of America National Meeting, TALK (Minneapolis, MN):  
\*[Kharwat, R.](#), Aiken, C.L., Munnecke, A., Boon, D., Schofield, D.I., & **Cramer, B.D.** The Digital Integrated Stratigraphy Project (DISP): A web-based open-access digital resource for EARTHTIME. *GSA Abstracts with Programs*, v. 43, n. 5, p. 569.
- 2011 Geological Society of America NE/North-Central Section Meet., TALK (Pittsburgh, PA):  
\***Cramer, B.D.**, Day, J.E., Saltzman, M.R., & Witzke, B.J. The late Famennian Hangenberg Event in North America and the search for the base of the Carboniferous. *GSA Abstracts with Programs*, v. 43, n. 1, p. 151.
- 2010 Geological Society of America National Meeting, TALK (Denver, CO):  
\***Cramer, B.D.**, & Munnecke, A. The extinction of paleontology and the future of stratigraphy: A distinctly pre-Cenozoic perspective. *GSA Abstracts with Programs*, v. 42, n. 5, p. 233.
- 2009 Geological Society of America National Meeting, TALK (Portland, OR):  
\***Cramer, B.D.**, Munnecke, A., Schofield, D.I., Saltzman, M.R., & Haase, K., 2009. New Wenlock-Ludlow (Silurian)  $^{87}\text{Sr}/^{86}\text{Sr}$  data and a revised Silurian Sr curve: Implications for the Silurian timescale. *GSA Abstracts with Programs*, v. 41, n. 7, p. 216.
- 2009 Geological Society of America National Meeting, TALK (Portland, OR):  
\*Tierney, K., Yan, J., Munnecke, A., Henderson, C., Davydov, V.I., **Cramer, B.D.**, & Saltzman, M.R. High-resolution carbon isotope composite curve for the Permian System: Implications for organic carbon burial and global climate. *GSA Abstracts with Programs*, v. 41, n. 7, p. 268.
- 2009 9<sup>th</sup> North American Paleontological Convention, TALK (Cincinnati, OH):  
\***Cramer, B.D.**, Kleffner, M.A., Brett, C.E., McLaughlin, P.I., Jeppsson, L., & Munnecke, A. Paleobiogeography, high-resolution stratigraphy and the future of Paleozoic biostratigraphy. *Cincinnati Museum Center Scientific Contributions*, n. 3, p. 188.
- 2009 9<sup>th</sup> North American Paleontological Convention, TALK (Cincinnati, OH):  
\*Kleffner, M.A., Barrick, J.E., **Cramer, B.D.**, & Karlsson, H. Conodont faunas and stable isotopes across the Mulde Event (late Wenlock: Silurian) in southern Laurentia. *Cincinnati Museum Center Scientific Contributions*, n. 3, p. 186.
- 2008 Geological Society of America National Meeting, TALK (Houston, TX):  
\***Cramer, B.D.**, Meyers, S.R., Munnecke, A., & Jeppsson, L. Is an orbitally tuned Paleozoic timescale achievable? *GSA Abstracts with Programs*, v. 40, n. 6, p. 283.
- 2008 Geological Society of America National Meeting, TALK (Houston, TX):  
\*McLaughlin, P.I., Brett, C.E., & **Cramer, B.D.** The sedimentary legacy of the Early Silurian Ireviken Excursion in the Appalachian and Baltic Basins: Cyclothem, bioherms, and authigenic mineralization. *GSA Abstracts with Programs*, v. 40, n. 6, p. 321.
- 2008 Geological Society of America National Meeting, TALK (Houston, TX):  
\*Tierney, K.E., Saltzman, M.R., Henderson, C.M., Davydov, V., Yan, J., Munnecke, A., & **Cramer, B.D.** Toward high-resolution isotope stratigraphy: Permian  $^{87}\text{Sr}/^{86}\text{Sr}$  and  $\delta^{13}\text{C}$  stratigraphy from limestones in China and Nevada. *GSA Abstracts with Programs*, v. 40, n. 6, p. 402.
- 2008 Geological Society of America North-Central Section Meet., TALK (Evansville, IN):  
\***Cramer, B. D.**, Munnecke, A., & Kleffner, M.A. What does the term 'biochemostratigraphy' mean anyway? Attempting to define the methods, applications, pitfalls, and Paleozoic potential of integrated data. *GSA Abstracts with Programs*, v. 40, n. 5, p. 5.

- 2008 Geological Society of America North-Central Section Meet., TALK (Evansville, IN):  
\*Kleffner, M.A., & **Cramer, B.D.** Revised conodont biostratigraphy and  $\delta^{13}\text{C}_{\text{carb}}$  chemostratigraphy of the lower Silurian (Llandovery-Wenlock) of Ohio and Western New York. *GSA Abstracts with Programs*, v. 40, n. 5, p. 21.
- 2008 American Association of Petroleum Geologists, POSTER (San Antonio, TX):  
\*Tierney, K.E., Saltzman, M.R., Yan, J., Foland, K.A., Linder, J., Munnecke, A., & **Cramer, B.D.** Sr isotope stratigraphy of the Early Permian Cisuralian Epoch (Artinskian-Kungurian Stages) at Laibin, China. *AAPG National Convention April 2008*.
- 2007 Geological Society of America Northeastern Section Meeting, TALK (Durham, NH):  
\*McLaughlin, P.I., Brett, C.E., & **Cramer, B.D.** Comparative sequence and event stratigraphy of Lower Silurian strata of the Appalachian Basin and Gotland, Sweden: Template for high-resolution global correlation. *GSA Abstracts with Programs*, v. 39, n. 1, p. 39.
- 2006 Geological Society of America National Meeting, TALK (Philadelphia, PA):  
\***Cramer, B.D.**, Saltzman, M.R., Kleffner, M.A., Bergström S.M., & Young, S.A. Asking old rocks new questions: Chronostratigraphic significance of carbon isotopes ( $\delta^{13}\text{C}_{\text{carb}}$ ) to Paleozoic stratigraphy. *GSA Abstracts with Programs*, v. 38, n. 7, p. 114.
- 2005 IGCP 503 2<sup>nd</sup> Annual Meeting, TALK (Milwaukee, WI):  
\***Cramer, B.D.**, Saltzman, M.R., Munnecke, A., & Stricanne, L. Do Paleozoic positive  $\delta^{13}\text{C}_{\text{carb}}$  excursions represent a return to Neoproterozoic oceanic conditions? *Insight, Milwaukee Public Museum Series in Natural History*, v. 2, p. 3-4.
- 2005 Geological Society of America North Central Meeting, POSTER (Minneapolis, MN):  
\*Kleffner, M.A., **Cramer, B.D.**, & Saltzman, M.R. First documentation of the Early Wenlock (Ireviken) positive  $\delta^{13}\text{C}_{\text{carb}}$  excursion in the type area of the Niagaran Provincial Series: Irondequoit Limestone, Rochester Shale, Decew Dolomite, Gasport Dolomite, and Goat Island Dolomite are all Sheinwoodian (early Wenlock) in age. *GSA Abstracts with Programs*, v. 37, n. 5, p. 79.
- 2004 Geological Society of America National Meeting, TALK (Denver, CO):  
\***Cramer, B.D.**, & Saltzman, M.R. 2004. CO<sub>2</sub> as the driver of changes in Silurian climate? *GSA Abstracts with Programs*, v. 36, n. 3, p. 38.
- 2004 Geological Society of America North Central Meeting, TALK (St. Louis, MO):  
\***Cramer, B.D.**, & Saltzman, M.R. 2004. Increased Removal or Decreased Delivery of <sup>12</sup>C: Interpreting the Lower Sheinwoodian (Ireviken) Positive Carbon Isotope Excursion from the Mid-continent. *GSA Abstracts with Programs*, v. 36, n. 5, p. 543.

National Invited Lectures/Colloquia (13 Invited Lectures/Colloquia)

- 2017 Univ. of Iowa Provost's Global Forum – Women's Health and the Environment: Going Up in Smoke (Iowa City, Iowa):  
\***Cramer, B.D.** Climate, Energy, & Policy
- 2017 Univ. of Kansas, Dept. of Geology, Colloquium Series (Lawrence, KS):  
\***Cramer, B.D.** High-Resolution Event Stratigraphy (Hi-RES): Unlocking the Paleozoic Record of the Co-Evolution of Life, Climate, and the Earth.
- 2017 Univ. of Iowa Speakers Bureau – Lucas County Great Decisions (Charitone, IA):  
\***Cramer, B.D.** Petroleum and U.S. Foreign Policy
- 2014 Univ. of Iowa, Obermann Cntr. for Adv. Studies, Obermann Afternoons (Iowa City, IA):  
\***Cramer, B.D.**, \*Priest, R.T., \*Eckstein, B. Anthropocene 101.

- 2013 Univ. of Iowa, Dept. of Geog. & Sustainability Sci., Kohn Colloquium (Iowa City, IA):  
\***Cramer, B.D.** The Digital Integrated Stratigraphy Project: LiDAR for geoscience teaching and research.
- 2013 Univ. of Iowa, Natural History Museum, Explorer Seminar Series (Iowa City, IA):  
\***Cramer, B.D.** Asking old rocks new questions.
- 2013 Mid-American Paleontological Society (MAPS), Colloquium Series (Iowa City, IA):  
\***Cramer, B.D.** Asking old rocks new questions.
- 2013 Iowa State Univ., Dept. of Geological & Atmospheric Sci. Colloquium Series (Ames, IA):  
\***Cramer, B.D.** The Deep-Time Earth History Revolution.
- 2012 University of Texas at Dallas, Dept. of Geosciences Colloquium Series (Dallas, TX):  
\***Cramer, B.D.** High-Fidelity: The deep-time Earth history revolution.
- 2011 Virginia Polytechnic State Univ., Dept. of Geology Colloquium Series (Blacksburg, VA):  
\***Cramer, B.D.** Asking old rocks new questions: A 21<sup>st</sup>-century approach to the Paleozoic record.
- 2010 University of Kansas, Department of Geology Colloquium Series (Lawrence, KS):  
\***Cramer, B.D.** Telling time in the Phanerozoic: Biostratigraphy, sequence boundaries, chemostratigraphy, chronostratigraphy, and geochronometry.
- 2010 Illinois State Univ., Dept. of Geography and Geology Colloquium Series (Normal, IL):  
\***Cramer, B.D.** Asking old rocks new questions: High-resolution integrated stratigraphy and the future of Paleozoic research.
- 2008 Kansas Geological Survey - Stratigraphic Research Seminar (Lawrence, KS):  
\***Cramer, B.D.** Asking old rocks new questions: High-resolution integrated stratigraphy and the future of Paleozoic research.

## **DIVERSITY, EQUITY, INCLUSION LEADERSHIP TRAINING**

### **BUILD (Building University of Iowa Leadership for Diversity) Certification**

#### *BUILD CERTIFIED: 18+ Hours of Training Courses*

- 2020 BUILD: Beyond the Numbers – Foundations for Diversity, Equity, & Inclusion
- 2020 BUILD/BGC: An Introduction to Federal Regulations Affecting International Students
- 2020 BUILD: Exploring the Influence of Unconscious Bias in our Work and Lives – The Research, Impact, and Strategies to Override
- 2020 BUILD: Fostering your CQ Framework
- 2020 LGBTQ Safe Zone: Phase 1
- 2020 LGBTQ Safe Zone: Phase 2
- 2020 BUILD: Making the Paradigm Shift from Diversity to Diversity, Equity, and Inclusion

## **SERVICE**    24 CURRENT SERVICE OBLIGATIONS

### **Departmental** (*10 current service obligations*)

2020-present	EES Diversity, Equity, Inclusion Committee (Chair)
2020-present	EES Director of Undergraduate Studies
2019	EES Graduate Committee
2018-present	EES Strategic Plan Committee
2017-present	EES Recruitment Coordinator
2017-2018	EES Hydrogeology Search Committee
2017-2018	EES Department External Review Response Committee
2015-2017	EES Department External Review Self-Study Committee
2015-present	EES Geochemistry Committee/Building Emergency Committee
2014-present	EES Alumni Event Coordinator – GSA and AAPG National Meetings
2014-2015	AAPG Student Chapter Faculty Supervisor (Sabbatical Replacement)
2013-present	EES Undergraduate & Curriculum Committee (Chair 2020-present)
2013-present	EES Alumni Relations Committee (Chair 2018-present)
2013-present	EES Department Liaison to the University of Iowa Alumni Foundation
2013-present	Geological Society of America Campus Representative, The University of Iowa

### **College** (*3 current service obligations*)

2020-present	CLAS Math and Sciences Diversity, Equity, Inclusion Committee
2019	CLAS Representative – Undergraduate Commencement Ceremony
2018-present	Program Coordinator – UIowa Environmental Sciences/Sanibel-Captiva Conservation Foundation Summer Research Program
2014-present	Member – Environmental Sciences Advisory Committee
2014-2018	Member – Faculty Learning Community – Big Ideas Course Committee

### **University** (*6 current service obligations*)

2019-present	Member – P3 Climate/Sustainability Subcommittee
2019-present	Member – Sustainability Scientists & Scholars Database Subcommittee
2019-present	Member – Systems Thinking Coursework Committee
2019-present	Member – University Honors Program Scholarship Competition Committee
2018-present	Member – Sustainability Certificate Curriculum Committee
2017	Panelist – Office of the Vice President for Research & Economic Development (OVPRED) Panel for new faculty – Securing funding for research
2017	Panelist – Office of the Vice President for Research & Economic Development (OVPRED) Panel on NSF CAREER Grants for Junior Faculty
2014-present	State of Iowa – UIowa Representative, USGS STATEMAP Advisory Council
2014	Search Committee Member – University Pentacrest Museums Director
2013-2015	International Programs Faculty Fellow

## **Professional** (5 current service obligations)

### National and International Committees/Commissions (4 Current Committees/Commissions)

- 2020-present President – Great Lakes Section, Society for Sedimentary Geology (SEPM)
- 2019-present Chair – International Subcommittee on Timescale Calibration (ISTC), International Commission on Stratigraphy, International Union of Geological Sciences
- 2017-present Committee Member – U.S. National Committee for Geological Sciences, Board of International Scientific Organizations, U.S. National Academy of Sciences
- 2016-present Voting Member – International Subcommittee on Silurian Stratigraphy (ISSS), International Commission on Stratigraphy, International Union of Geological Sciences
- 2012-2016 Corresponding Member – International Subcommittee on Silurian Stratigraphy (ISSS), International Commission on Stratigraphy, International Union of Geological Sciences

### Workshops/Symposia/Field Trips (17 Workshops/Symposia/Field Trips)

- 2020 Geological Society of America National Meeting, Symposium, Topical Session 110 (Montreal, Canada): A Matter of Time: The Stratigraphic Record of Time and Future of Timescale Calibration. Co-Chairs: **B.D. Cramer**, M.D. Schmitz, A.C. DaSilva. (Co-sponsored by the International Subcommittee on Timescale Calibration, GSA Geochronology Division, & The Paleontological Society).
- 2019 35<sup>th</sup> Annual Great Lakes Section – SEPM & 74<sup>th</sup> Annual Tri-State Field Conference (Quincy, IL): Organizers: **B.D. Cramer**, R.J. Clark, J.E. Day. (Sponsored by the Society for Sedimentary Geology [SEPM] – Great Lakes Section).
- 2019 National Science Foundation (NSF) – *IsoAstro Workshop* (Rock Springs, WY): Instructors: S.J. Meyers, M. Schmitz, B. Singer, M. Smith, L. Hinnov, & **B.D. Cramer**.
- 2016 National Science Foundation (NSF) – *IsoAstro Workshop* (Boise, ID): Instructors: S.J. Meyers, B. Singer, M. Schmitz, L. Hinnov, & **B.D. Cramer**.
- 2016 International Geoscience Programme (IGCP) 591 6<sup>th</sup> Annual Meeting (Ghent, Belgium): Joint meeting with the International Subcommissions of the Cambrian, Ordovician, Silurian, and Devonian stratigraphy. Organizing and Scientific Committee: T.R.A. Vandenbroucke & **B.D. Cramer**. (Co-sponsored by the Palaeontological Association and the Society for Sedimentary Research [SEPM]).
- 2015 University of Iowa – Obermann Center for Advanced Studies – Humanities Symposium Directorship (Iowa City, IA). *Energy Cultures in the Age of the Anthropocene* An international symposium on the UI Campus. Co-Organizers: T. Priest (HIST/GSS), B. Eckstein (ENGL), **B.D. Cramer** (EES).
- 2014 Geological Society of America National Meeting, Symposium, Discipline Session 176 (Vancouver, BC, Canada): Stratigraphy. Co-chairs: M.J. Melchin & **B.D. Cramer**.
- 2014 National Science Foundation (NSF) – *IsoAstro Workshop* (Madison, WI): Instructors: S.J. Meyers, B. Singer, M. Schmitz, L. Hinnov, & **B.D. Cramer**.

- 2014 International Geoscience Programme (IGCP) 591 Field Workshop (Kunming, China): Joint meeting with the International Subcommissions of the Silurian, Ordovician and Cambrian Systems. Organizing and Scientific Committee: R.B. Zhan, X. Hou, Y. Zhang, B. Huang, D.A.T. Harper, X. Zhang, Y. Wang, Z. Feng, P. Cong, R. Wu, Q. Yang, Y. Liu, **B.D. Cramer**, & J. Jin. (*Co-sponsored by the State Key Laboratory of Palaeobiology and Stratigraphy – Nanjing Institute of Geology and Palaeontology, Chinese Academy of Sciences, Yunnan University, National Natural Science Foundation of China - NNSFC*).
- 2014 International Geoscience Programme (IGCP) 591 4<sup>th</sup> Annual Meeting (Tartu, Estonia): Lower to Middle Paleozoic stratigraphy of the Baltic Platform. Organizing and Scientific Committee: L Ainsaar, H. Bauert, O. Hints, P. Männik, T. Meidla, A. Põldvere, O. Tinn, M. Calner, **B.D. Cramer**, D. Kaljo, O. Lehnert, & Ž. Žigaitė. (*Co-sponsored by the Geological Survey of Estonia, University of Tartu, & Tallinn University of Technology*).
- 2014 Who Will Build the 21<sup>st</sup> Century: Addressing Critical Demographic Gaps in the Geosciences, Symposium (Iowa City, IA): An international geoscience symposium co-sponsored by the University of Iowa – International Programs – Stanley Major Projects Award and the International Geoscience Programme (IGCP) Project 591. **B.D. Cramer** (Organizer).
- 2013 Geological Society of America National Meeting, Symposium, Topical Session T236 (Denver, CO): Biological and Environmental Feedbacks in the Colonization of the Water Column. Co-organizers: M. Williams, T.R.A. Vandenbroucke & **B.D. Cramer**. (*Co-sponsored by IGCP 591, The Paleontological Society, and The Palaeontological Association*).
- 2012 International Geoscience Programme (IGCP) 591 2<sup>nd</sup> Annual Meeting & 1<sup>st</sup> Foerste Symposium and Field Excursions (Cincinnati, OH): Lower Paleozoic stratigraphy of the mid-continent: 125 years of stratigraphic research in eight days. Co-organizers: **B.D. Cramer**, C.E. Brett, D. Mikulic, P.I. McLaughlin & M.A. Kleffner. (*Co-sponsored by the Society for Sedimentary Geology [SEPM] – Great Lakes Section*).
- 2012 Geological Society of America North Central Meeting, Field Trip (Dayton, OH): Lower Silurian of West-Central Ohio and the Case of the Disappearing Dayton. Co-Leaders: M.A. Kleffner, **B.D. Cramer** & C.E. Brett. (*Co-sponsored by IGCP 591*).
- 2011 International Subcommission on Silurian Stratigraphy Field Meeting and International Geoscience Programme (IGCP) Project 591 1<sup>st</sup> Annual Meeting (Ludlow, U.K.): Siluria Revisited: International Subcommission on the Silurian System Conference and Field Meeting and IGCP 591 1<sup>st</sup> Annual Meeting. Co-Organizers: D.K. Loydell, D.C. Ray, J. Davies, R. Waters & **B.D. Cramer**.
- 2008 Geological Society of America North Central Meeting, Symposium, Topical Session (Evansville, IN): New Approaches and Initiatives in Paleozoic High-Resolution Stratigraphy: A Symposium Commemorating 15 years of Views from the Craton and Beyond. Co-Chairs: P.I. McLaughlin, **B.D. Cramer** & M.A. Kleffner.
- 2008 Geological Society of America North Central Meeting, Field Trip (Evansville, IN 2008): Silurian Stratigraphy across the Cincinnati Arch: Recalibrating the Layer Cake. Co-Leaders: P.I. McLaughlin, **B.D. Cramer**, C.E. Brett, & M.A. Kleffner (*Co-sponsored by the Society for Sedimentary Geology (SEPM) – Great Lakes Section*).

Journal/Book Editor (1 Current Associate Editor)

- 2019 Editor, 35<sup>th</sup> Annual Great-Lakes Section SEPM and 74<sup>th</sup> Annual Tri-State Geological Field Conference, Guidebook. *The Devonian-Carboniferous Boundary in the Type Area of the Mississippian*. Iowa Geological Survey Guidebook Series, v. 30. **B.D. Cramer** (ed.). 82 p.
- 2017-present Associate Editor, *Geological Society of America Bulletin*.
- 2013 Guest Editor, *Stratigraphy*, 2013, v.10, n. 4. IGCP 591 – The Early to Middle Paleozoic Revolution: Special volume in honor of August F. Foerste – Special volume arising from the IGCP 591 2<sup>nd</sup> annual meeting. Guest Editors: **B.D. Cramer** & M.J. Melchin.
- 2012 Guest Editor, *Bulletin of Geosciences*, 2012, v. 87, n. 4. Siluria Revisited - Special volume with a Silurian theme arising from the ISSS 2011 meeting. Guest Editors: D.K. Loydell & **B.D. Cramer**.
- 2012 Editor, IGCP 591 2<sup>nd</sup> Annual Meeting, 2012, Field Guide Vol. 1 – Brett, C.E., McLaughlin, P.I., Schramm, T.J., Sullivan, N.B., & Thomka, J.R., 2012: *Middle Paleozoic Sequence Stratigraphy and Paleontology of the Cincinnati Arch: Part 1 - Central Kentucky and Southern Ohio*. Brett, C.E., **Cramer, B.D.**, & Gerke, T.L. (eds.). 161 pp.
- 2012 Editor, IGCP 591 2<sup>nd</sup> Annual Meeting, 2012, Field Guide Vol. 2, Brett, C.E., Cramer, B.D., Datillo, B.F., McLaughlin, P.I., Schramm, T.J., & Thomka, J.R., 2012: *Middle Paleozoic Sequence Stratigraphy & Paleontology of the Cincinnati Arch: Part 2 - Northern Kentucky and SE Indiana*. Brett, C.E., **Cramer, B.D.**, & Gerke, T.L. (eds.). 94 pp.

External Grant Proposal Reviewer

- 2019 National Science Foundation (GEO/EAR)
- 2017 American Chemical Society; National Science Foundation (GEO/EAR)
- 2016 National Science Foundation (GEO/EAR); Deutsche Forschungsgemeinschaft – DFG (German Research Council); Grantová Agentura České Republiky – GA CR (Czech Science Foundation)
- 2015 National Science Foundation (GEO/EAR); Deutsche Forschungsgemeinschaft (German Research Council); Natural Science and Engineering Research Council of Canada
- 2014 National Science Foundation (GEO/EAR)
- 2013 National Science Foundation (GEO/EAR)
- 2011 National Science Foundation (GEO/EAR); Natural Science and Engineering Research Council of Canada
- 2010 National Science Foundation (GEO/EAR)

Manuscript Reviewer

- 2020 (8) *Chemical Geology* (2); *Earth-Science Reviews* (1); *GSA Bulletin* (1); *Lethaia* (1); *Nature Geoscience* (1); *Palaeogeography, Palaeoclimatology, Palaeoecology* (2)
- 2019 (4) *Earth and Planetary Science Letters* (1); *Geology* (2); *Palaeogeography, Palaeoclimatology, Palaeoecology* (1)
- 2018 (6) *Earth and Planetary Science Letters* (1); *Episodes* (1); *Geological Magazine* (1); *Geological Society of America Bulletin* (1); *Lethaia* (1); *Palaeogeography, Palaeoclimatology, Palaeoecology* (1)
- 2017 (9) *Acta Geologica Polonica* (1); *Geology* (2); *Nature Geoscience* (1); *Review of Paleobotany and Palynology* (1); *Sedimentology* (1); *Kansas Geological Survey* (1); *Lethaia* (2)

- 2016 (4) *Geology* (2); *Nature Communications* (1); *Earth and Planetary Science Letters* (1)  
 2015 (9) *Earth and Planetary Science Letters* (2); *Journal of Sedimentary Research* (1); *Nature Communications* (1); *Newsletters on Stratigraphy* (1); *Palaeogeography, Palaeoclimatology, Palaeoecology* (1); *Palaeoworld* (1); *Estonian Journal of Earth Sciences* (1); *Canadian Journal of Earth Sciences* (1)  
 2014 (6) *Geology* (2); *GFF* (2); *Palaeogeography, Palaeoclimatology, Palaeoecology* (1); *The Sedimentary Record* (1)  
 2013 (6) *Geological Society of America Bulletin* (1); *Geological Society of London – Special Publication* (1); *GFF* (2); *Stratigraphy* (2)  
 2012 (1) *Geology* (1)  
 2011 (5) *Bulletin of Geosciences* (2); *Estonian Journal of Earth Sciences* (1); *Journal of Sedimentary Research* (1); *Palaeogeography, Palaeoclimatology, Palaeoecology* (1)  
 2006-2010 *Bolletino della Società Paleontologica Italiana*; *Bulletin of Geosciences*; *Estonian Journal of Earth Sciences*; *Geological Association of Canada*; *Geological Society of America Bulletin*; *Geology*; *GFF*; *Journal of Asian Earth Sciences*; *Journal of Micropalaeontology*; *Journal of Sedimentary Research*; *Palaeogeography, Palaeoclimatology, Palaeoecology*.

### **State of Iowa (2 current service obligations)**

- 2014-present State of Iowa – UIowa Representative, USGS STATEMAP Advisory Council  
 2014-present Department of Earth and Environmental Science Representative to Hawkeye Caucus Day at the State Capitol

### **Community**

#### Public Lectures/Presentations for Non-Specialists/TV, Radio, or Internet

- 2019 Documentary on Global Boundary Stratotype Sections & Points (GSSPs) (Milan, Italy):  
The International Subcommittee on Timescale Calibration  
 2018 Talk of Iowa – Iowa Public Radio Guest (Iowa City, IA):  
Geoscience Education in the State of Iowa  
Univ. of Iowa, Rapid Response History, Public Lecture (Iowa City, IA):  
Real Climate, Real Science.  
Local Television Interview (CBS2) – Geoscience Education in the State of Iowa  
 2017 Univ. of Iowa Provost’s Global Forum: Women’s Health and the Environment: Going Up  
in Smoke (*Climate, Energy, & Policy*)  
Univ. of Iowa Speakers Bureau – Lucas County Great Decisions (Charitone, IA):  
(*Petroleum and U.S. Foreign Policy*)  
 2015 Obermann Center Symposium (*Energy Cultures in the Age of the Anthropocene*)  
World Canvas TV Interview (*Energy Cultures in the Age of the Anthropocene*)  
 2014 Obermann Afternoons (*Anthropocene 101*)  
 2013 Mid-American Paleontological Society (MAPS), Colloquium Series (Iowa City, IA)  
(*Asking Old Rocks New Questions*)  
Iowa Museum of Natural History, Explorer Seminar Series (*Asking Old Rocks New Questions*)