

Alison Olcott Marshall
Curriculum Vitae

EDUCATION

- 09/01-09/06 **University of Southern California**, Los Angeles, California
Ph.D. degree in Geological Sciences. Advisor: Frank Corsetti
(co-advised by Alex Sessions, California Institute of Technology)
- 09/95-06/99 **University of Chicago**, Chicago, Illinois
B.S. degree in Geology
Graduation with Department and University honors
Advisor: Mike Foote, Jack Sepkoski

EMPLOYMENT HISTORY

- 01/08-now **University of Kansas**, Lawrence, Kansas
Assistant Professor of Paleobiogeochemistry
- 09/06-12/07 **Woods Hole Oceanographic Institute**, Woods Hole, Massachusetts
Postdoctoral Scholar. Advisor: Tim Eglinton

KU TEACHING RECORD

A. List of Courses Taught

Course Number & Title	Sem/Year	# Enrolled
Geol 591/791: Chemical Paleontology	Fall 2013	10
Geol 121: Prehistoric Life from DNA to Dinosaurs	Spring 2013	93
Geol 121: Prehistoric Life from DNA to Dinosaurs	Fall 2012	112
Geol 791: Record of Life in Rocks	Fall 2011	5
Geol 121: Prehistoric Life from DNA to Dinosaurs	Spring 2011	127
Geol 791: Geobiology Seminar	Fall 2010	9
Geol 591: Field Techniques in Geobiology	Fall 2010	22
Geol 591: Microbial Carbonates	Spring 2010	7
Geol 791: Geobiology Seminar	Spring 2010	8
Geol 791: Record of Life in Rocks	Fall 2009	5
Geol 591: Field Technique in Geobiology	Fall 2009	18
Geol 121: Prehistoric Life from DNA to Dinosaurs	Spring 2009	120
Geol 791: Nature and Evolution of Earth's Early Biosphere	Fall 2008	4
Geol 791: Organic Geochemistry	Fall 2008	3
	Total:	543

B. Undergraduate Advising Record

Primary advisor:

Mallory Stevenson, 10/10-06/13; currently a student at Eastern Carolina University

C. Graduate and Postgraduate Advising Record

Committee Chair: Doctoral.

Co-chaired

Julienne Emry, 08/09-present

Committee Chair: Masters.

Sole advisor

Nick Cestari, 08/13-present

Brendan Anderson, 08/11-06/13 (currently in PhD. Program at Cornell University)

Vincent Nowaczewski, 08/09-07/11 (currently at Chesapeake Energy)

Co-chaired

Brenden Keel, 08/13-present

Randol Wehrbein, 08/10-present

Other graduate committee service

Doctoral

Ian Wesley Gapp (current paleontology student)

Sarah Gibson (current paleontology student)

Carla Harper (current paleontology student, EEB)

Masters

Jennifer Lowry (carbonate student)

Anya Hess (carbonate student); completed 08/11

Neil Kinnebrew (geobiology student); completed 08/12

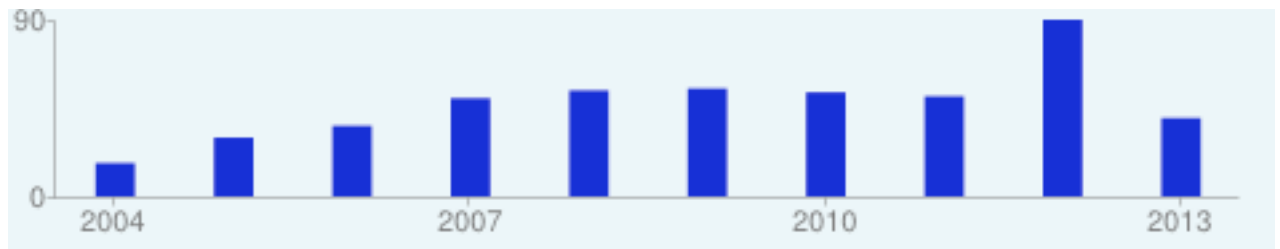
RESEARCH RECORD

A. Research Publications and/or Creative Works

A general note on publishing in my field: the two highest-ranking places to be in the authorship list are either **first** author or **last** author. Additionally, being **corresponding author** is also a position of seniority; the lead PI on the project is the person who takes this role. Thus, this is an indication of having contributed the most to the project.

Additionally, with the exception of two papers published while I was a graduate student, I have always been a major author, and at least a co-PI (if not sole PI) for all of the research I have done.

Below is my graph of citations as of 9/1/13. As of that date I have 485 total citations with an h-index of 5.



Major Publications or Creative Work

Key to table: PR: peer reviewed; MA: major author; AR: advisee research; mA: minor author; PI: major role in project idea and design; PC: press coverage

* indicates I was the corresponding author; students I advise or whose committee I am on are *italicized*

		PR	MA	AR	mA	PI	PC
17	<p>Olcott Marshall, A*, Marshall, C.P., <i>in press</i>, Field-based Raman spectroscopic analyses of an Ordovician stromatolite. <i>Astrobiology</i>.</p> <p>I am the principle and corresponding author. I analyzed or helped analyze all of the data, drafted the figures and wrote the paper. The initial data for this paper were collected on a field trip for a class I taught.</p>	X	X			X	
16	<p>Marshall, C.P., Olcott Marshall, A., <i>in press</i>, Raman hyperspectral imaging of microfossils: potential pitfalls. <i>Astrobiology</i>.</p> <p>I helped conceive of this project, collect data, and write the paper, and I produced all of the figures.</p>	X	X			X	
15	<p>Rothschild, B., Martin, L, <i>Anderson, B.A</i>, Olcott Marshall, A., Marshall, C.P., <i>in press</i>, Raman spectrographic documentation of Oligocene bladder stone. <i>Naturwissenschaften</i>.</p> <p>A major part of this paper represents research done by my student. I helped train the student, write up the paper, and draft the figures.</p>	X		X	X		

		PR	MA	AR	mA	PI	PC
14	<p>Olcott Marshall, A., Nowaczewski, V., Marshall, C.P., in press, Microchemical differentiation of conodont and scolecodont microfossils. <i>Palaios</i>.</p> <p>I am the principle author. I analyzed or helped analyze all of the data, drafted the figures and wrote half the paper.</p>	X	X	X		X	
13	<p>Olcott Marshall, A.*, Jehlicka, J., Rouzaud, J-N, Marshall, C.P., 2013, Extensive mixing of carbonaceous material in the Archean and Proterozoic. <i>Gondwana Research</i>.</p> <p>I am the principle and corresponding author. I analyzed or helped analyze all of the data, drafted the figures and wrote the paper. This has received international press coverage.</p>	X	X			X	X
12	<p>Olcott Marshall, A.*, Marshall, C.P., 2013, Comment on “Biogenicity of Earth's earliest fossils: A resolution of the controversy” by J.W. Schopf and A. B. Kudryavtsev, <i>Gondwana Research</i>, Volume 22, Issue 3–4, Pages 761–771. doi: 10.1016/j.gr.2012.12.006</p> <p>I am the corresponding author for this paper, which I also wrote and drafted the figures. I am co-creator of this project.</p>	X	X	X		X	
11	<p>Olcott Marshall, A and Marshall, C.P. 2012 Potential biological affinity of porosity-producing organic carbon in shaley carbonates, Report prepared for ConocoPhillips</p> <p>I wrote this report and collected half of the data. I am co-creator of this project.</p>		X			X	
10	<p>INVITED: Olcott Marshall, A*., Wehrbein, R.L., Lieberman, B.S., Marshall, C.P. 2012 Raman spectroscopic investigations of Burgess Shale-type preservation: a new way forward. <i>Palaios</i>, 27(5): 288-292.</p> <p>I am the corresponding author for this paper, which I also wrote and drafted the figures. I am co-creator of this project, and I interpreted half of the data.</p>	X	X	X		X	

		PR	MA	AR	mA	PI	PC
9	<p>Olcott Marshall, A. <i>Emry, J.R.</i>, Marshall, C.P. 2012. Multiple Generations of Carbon in the Apex Chert and Implications for Preservation of Microfossils. <i>Astrobiology</i>, 12(2): 160-166. doi:10.1089/ast.2011.0729.</p> <p>I wrote most of this paper and drafted the figures. I am co-creator of this project, and I analyzed or helped analyze all of the data.</p> <p>This paper received press coverage; see supplementary information for the press.</p>	X	X	X		X	X
8	<p>Marshall, C.P., <i>Emry, J.R.</i>, Olcott Marshall, A.* 2011, Haematite pseudomicrofossils present in the 3.5 billion year old Apex Chert. <i>Nature Geoscience</i>. V. 4, p 240-243 DOI: 10.1038/NGEO1084.</p> <p>This is a <i>Nature</i> journal, which is ranked as the number one journal in Geology with an impact factor of 10.40. It has a similar low acceptance rate as that of <i>Nature</i> (acceptance rate of 8%)</p> <p>This research received worldwide press; see supplementary information for the press.</p> <p>I was the principle and corresponding author. I collected half of the data in the paper, analyzed or helped analyze all of the data, drafted the figures and wrote the paper.</p>	X	X	X		X	X
7	<p>INVITED: Marshall, C.P, Olcott Marshall A., 2011, Hematite and carbonaceous materials in geological samples: a cautionary tale. <i>Spectrachimica Acta</i>, v. 80, p. 133-137.</p> <p>I wrote half of this paper and drafted the figures. I am co-creator of this project, and I analyzed or helped analyze all of the data.</p> <p>This paper received press coverage; see supplementary information for the press.</p>	X	X			X	X

		PR	MA	AR	mA	PI	PC
6	<p>Marshall, C.P. and Olcott Marshall, A., 2010, The Potential of Raman spectroscopy for the analysis of diagenetically transformed carotenoids. <i>Philosophical Transactions A</i>, 368, 3137-3144.</p> <p>I wrote half of this paper and drafted the figures. I am co-creator of this project, and I analyzed or helped analyze all of the data.</p>		X			X	
5	<p>Olcott Marshall, A.*, Corsetti, F.A., Sessions, A.L., and Marshall, C.P., 2009, Raman spectroscopy and biomarker analysis reveal multiple carbon inputs to a Precambrian glacial sediment: <i>Organic Geochemistry</i>, v. 40, p. 1115-1123.</p> <p>I wrote the paper, am corresponding author, conceived of the project, collected and analyzed the data.</p> <p>This paper received press coverage; see supplementary information for the press.</p>	X	X			X	X
4	<p>Olcott, A.N.*, 2007, The utility of biomarkers as paleoenvironmental indicators, <i>Palaeos</i> 22(2): 111</p>		X			X	
3	<p>Olcott, A.N.*, Sessions, A.L., Corsetti, F.A., Kaufman, A.J., de Oliveira, T.F., 2005, Biomarker evidence for photosynthesis during Neoproterozoic glaciation: <i>Science</i>, Published online 29 September 2005; 10.1126/science.1115769</p> <p>I wrote the paper, am corresponding author, conceived of the project, collected and analyzed the data.</p> <p>This paper received press coverage; see supplementary information for the press.</p>	X	X			X	X

		PR	MA	AR	mA	PI	PC
2	Corsetti, F.A., Olcott, A.N. , and Bakermans, C., 2006, The biotic response to Neoproterozoic snowball Earth: <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 232 (114): 114-130 I wrote half of this paper and drafted some of the figures. I am co-creator of this project, and I analyzed or helped analyze all of the data.	X			X	X	
1	Ricardo, A., Carrigan, M.A., Olcott, A.N. and Benner, S.A., 2004. Borate minerals stabilize ribose. <i>Science</i> , 303(5655): 196. I helped with the creation and data collection of this project. This paper received press coverage; see supplementary information for the press.	X			X	X	X

Minor Publications or Creative Works

Key to table: PR: peer reviewed; MA: major author; AR: advisee research; mA: minor author; PI: major role in project idea and design; PC: press coverage

		PR	MA	AR	mA	PI	PC
1	Olcott, Alison N. , 2007. Review of Neoproterozoic Geobiology and Paleobiology (Topics in Geobiology) ed Xiao, S. and Kaufman, A.J., Palaios. http://paleo.ku.edu/palaios/reviews/xiao.pdf		X			X	

B. Scholarly Presentations

Major Presentations

Key to table: MA: major author; AR: advisee research; mA: minor author; PI: major role in project idea and design; students I advise are *italicized*

		MA	AR	mA	PI

		MA	AR	mA	PI
45	<p>INVITED: Olcott Marshall, A., Jehlicka, J., Rouzaud, J-N, Marshall, C.P., 2013, Novel Application of High-Resolution Transmission Electron Microscopy to Archean Paleontology</p> <p>I wrote the presentation, conceived of the project, and gave the presentation.</p>	X			X
44	<p>INVITED: Harper, C.J., Taylor, T.N., Krings, M., Olcott Marshall, A., Marshall, C.P., 2013 Wood-rotting fungi have a dark history: Evidence from the fossil record. American Phytopathological Society-Mycology Society of America Joint Meeting</p> <p>I trained the student, oversaw the collection and interpretation of results from my lab, and assisted in the writing of the presentation.</p>	X	X		X
43	<p>Olcott Marshall, A., Jehlicka, J., Rouzaud, J-N, Marshall, C.P., 2013, Delineating Biotic and Abiotic Carbonaceous Material in the Apex Chert. Goldschmidt, 2013.</p> <p>I wrote the presentation, conceived of the project, and gave the presentation.</p>	X			X
42	<p>Marshall, C.P., and Olcott Marshall, A., 2013. Raman Hyperspectral Imaging of Carbonaceous Materials and Hematite: Potential Misinterpretations. Goldschmidt, 2013.</p> <p>I co-wrote the presentation and co-conceived of the project</p>	X			X
41	<p>Glauser, A, <i>Harper, C.</i>, Taylor, T, Taylor, E., Marshall, C., Olcott Marshall, A., 2013. Reexamination and analysis of microspore contents in Pennsylvanian spores and pollen grains. Botany 2013</p> <p>I helped train the student, and assisted in the writing of the presentation.</p>		X	X	

		MA	AR	mA	PI
40	<p><i>Anderson, B.M., Olcott Marshall, A.</i> 2012. A new dataset of Phanerozoic Marine Konservat-Lagerstätten: Patterns in secular distribution. Geological Society of America Annual Meeting.</p> <p>I wrote the presentation, conceived of the project, and supervised and trained the student.</p>	X	X		X
39	<p>INVITED: Marshall, C.P., <i>Emry, J.R., Olcott Marshall, A.</i>, 2012. The search for the earliest evidence of life on Earth: A Cautionary Tale. 23rd International Conference on Raman Spectroscopy, Bangalore, India</p> <p>I co-wrote the presentation, co-conceived of the project and co-supervised and trained the student.</p>	X	X		X
38	<p>Marshall, C.P., <i>Emry, J.R., Olcott Marshall, A.</i>, 2012. Multiple Generations of carbonaceous material in the ~3.5 Ga. Apex Chert: A cautionary tale for the preservation of ancient microfossils. GeoRaman Xth Meeting, Nancy France</p> <p>I co-wrote the presentation, co-conceived of the project and co-supervised and trained the student.</p>	X	X		X
37	<p>Olcott Marshall, A., <i>Wehrbein, R.L.</i>, Lieberman, B.S., Lin, J.-P., and Marshall, C.P., 2012 Application of Raman spectroscopy to Burgess Shale-Type Preservation: GeoRaman Xth Meeting, Nancy France</p> <p>I wrote the presentation, co-supervised and trained the student, co-conceived of the project and gave the presentation.</p>	X	X		X
36	<p><i>Nowaczewski, V.S., Olcott Marshall, A.</i> 2011. Biomarker and paleontological investigations of the upper and lower Woodford Shale, south-central Oklahoma. Geological Society of America Annual Meeting.</p> <p>I wrote the presentation, conceived of the project, and supervised and trained the student.</p>	X	X		X

		MA	AR	mA	PI
35	<p><i>Nowaczewski, V.S., Olcott Marshall, A., Marshall, C.P.</i> 2011. FTIR microspectroscopy of scolecodont and conodont microfossils from the Woodford Shale, south-central Oklahoma. Geological Society of America Annual Meeting.</p> <p>I wrote the presentation, conceived of the project and supervised and trained the student.</p>	X	X		X
34	<p><i>Wehrbein, R.L., Marshall, C.P., Lin, J-P., Lieberman, B.S., Olcott Marshall, A.</i> 2011. Application of Raman spectroscopy on Burgess Shale-type preservation. . Geological Society of America Annual Meeting.</p> <p>I wrote the presentation, co-conceived of the project and co-supervised and trained the student.</p>	X	X		X
33	<p>INVITED: Marshall C.P. Olcott Marshall, A. 2011 The search for the evidence of the earliest life on Earth, a cautionary tale. Federation of Analytical Chemistry and Spectroscopy Societies Conference</p> <p>I co-wrote the presentation and co-conceived of the project.</p>	X			X
32	<p><i>Nowaczewski, V.S., Olcott Marshall, A.</i> 2011. Microfauna and biomarkers of the Woodford Shale: Western Arkoma Basin, Oklahoma. Geological Society of America South-Central Section Annual Meeting.</p> <p>I wrote the presentation, conceived of the project, and supervised and trained the student.</p>	X	X		X
31	<p>INVITED: Olcott Marshall, A. 2011. Oldest Life or Chemical Artifacts? A Reassessment of the Apex Chert, University of Minnesota</p>	X			X
30	<p>Olcott Marshall, A., Lieberman, B.S. Marshall, C.P., 2010. Preservation of Burgess Shale Type Fossils Revealed by Raman Spectroscopy. Geological Society of America Annual Meeting.</p> <p>I wrote the presentation, co-supervised and trained the student, co-conceived of the project, and gave the presentation.</p>	X			X

		MA	AR	mA	PI
29	<p><i>Emry, J.R., Olcott Marshall, A., Marshall, C.P., 2010. Astrobiological Implications of the Apex Chert Microfossils. Geological Society of America Annual Meeting.</i></p> <p>I wrote the presentation, co-conceived of the project, and co-supervised and trained the student.</p>	X	X		X
28	<p>Olcott Marshall, A., Marshall, C.P., 2010. Multiple Generations of Organic Carbon Revealed in a Neoproterozoic Glacial Succession. V.M. Goldschmidt Conference</p> <p>I wrote and delivered the presentation and co-conceived of the project.</p>	X			X
27	<p><i>Emry, J.R., Olcott Marshall, A., Marshall, C.P., 2010. The Search for Novel Biosignatures in the Apex Chert. V.M. Goldschmidt Conference.</i></p> <p>I wrote the presentation, co-conceived of the project, and co-supervised and trained the student.</p>	X	X		X
26	<p>Marshall, C.P., Olcott Marshall, A., 2010. Oil Shale Geochemistry. V.M. Goldschmidt Conference.</p> <p>I co-wrote the presentation and co-conceived of the project.</p>	X			X
25	<p>Olcott Marshall, A., Willman, S., Moczydlowska M., Marshall, C.P., 2009. Neoproterozoic Acritarchs Pelagic Lifestyle Revealed by Carbon Isotopes. Burgess Shale 100th anniversary Meeting.</p> <p>I wrote and delivered the presentation and co-conceived of the project.</p>	X			X
24	<p>Marshall, C.P., Lieberman, B.S., Olcott Marshall, A., 2009. Preservation of Burgess Shale Type Fossils Revealed by Raman Spectroscopy. Burgess Shale 100th anniversary Meeting.</p> <p>I co-wrote the presentation and co-conceived of the project.</p>	X			X

		MA	AR	mA	PI
23	<p>Olcott, A.N. and Marshall, C.P., 2008. Chemotaxonomy of oil shales. Geological Society of America Annual Meeting.</p> <p>I wrote and delivered the presentation and co-conceived of the project.</p>	X			X
22	<p>Marshall, C.P. and Olcott, A.N., 2008. A New Parameter to Predict Successful Oil Shale Retorting. Geological Society of America Annual Meeting.</p> <p>I co-wrote the presentation and co-conceived of the project.</p>	X			X
21	<p>INVITED: Olcott, A.N., 2008. Chemotaxonomy of <i>Tasmanites</i>, Agouron/NSF/USC Wrigley Institute International Geobiology Course</p>	X			X
20	<p>Marshall, C.P. and Olcott, A.N., 2008. Raman Spectroscopy of Carotenoids. Federation of Analytical Chemistry and Spectroscopy Societies Annual Conference</p>	X			X
19	<p>Marshall, C.P. and Olcott, A.N., 2008. The potential of Resonance Raman spectroscopy for the analysis of diagenetically transformed carotenoids. 8th International Conference on Raman Spectroscopy Applied to the Earth Sciences</p> <p>I co-wrote the presentation and co-conceived of the project.</p>	X			X
18	<p>Olcott, A.N., Marshall, C.P., Eglinton, T.I., 2008. Chemotaxonomy of oil shales. American Association of Petroleum Geologists Annual Meeting 2008</p> <p>I wrote and delivered the presentation and conceived of the project.</p>	X			X

		MA	AR	mA	PI
17	<p>Marshall, C.P., Olcott, A.N., 2008. The hydrocarbon generation potential of oil shales based on chemical content. American Association of Petroleum Geologists Annual Meeting 2008</p> <p>I co-wrote the presentation and co-conceived of the project.</p>	X			X
16	<p>Olcott, A.N., Eglinton, T.I., 2008. Ruthenium tetroxide oxidation of macromolecular organic matter in marine sediments. Ocean Sciences Meeting 2008</p> <p>I wrote and delivered the presentation and conceived of the project.</p>	X			X
15	<p>Olcott, A.N., Eglinton, T.I., 2007. Products from Ruthenium tetroxide oxidation of macromolecular organic matter in marine sediments. International Meeting of Organic Geochemists 2007</p> <p>I wrote and delivered the presentation and conceived of the project.</p>	X			X
14	<p>INVITED: Olcott, A.N., 2007. Signs of Photosynthesis on a Snowball Earth, University of Uppsala</p>	X			X
13	<p>INVITED: Olcott, A.N., 2006. Biomarkers of a Neoproterozoic Glaciation, Hamilton College</p>	X			X
12	<p>INVITED: Olcott, A.N., 2006. Biomarkers of a Neoproterozoic Glaciation, Massachusetts Institute of Technology</p>	X			X
11	<p>Olcott, A.N., Li, C., Sessions, A.L., Corsetti, F. A., Peng, P., 2006. Biogeochemistry of Neoproterozoic Low Latitude Glaciations, V.M. Goldschmidt Conference 2006</p> <p>I wrote and delivered the presentation and conceived of the project.</p>	X			X

		MA	AR	mA	PI
10	Olcott, A.N. , Sessions, A.L., Corsetti, F.A., Kaufman, A.J., 2006. Photosynthesis during Snowball Earth, Snowball Earth Conference 2006 I wrote and delivered the presentation and conceived of the project.	X			X
9	INVITED: Olcott, A.N. , 2006. Biomarkers of a Neoproterozoic Glaciation, California Institute of Technology	X			X
8	INVITED: Olcott, A.N. , 2006. Biomarkers of a Neoproterozoic Glaciation, University of Kansas	X			X
7	INVITED: Olcott, A.N. , 2006. Biomarkers of a Neoproterozoic Glaciation, University of Washington	X			X
6	Olcott, A.N. , Sessions, A.L., Corsetti, F.A., Kaufman, A.J., 2005. Biomarkers of a Neoproterozoic Glaciation, American Geophysical Union, 2005 Annual Meeting. I wrote and delivered the presentation and conceived of the project.	X			X
5	INVITED: Olcott, A.N. , 2005. Life During Snowball Earth, UC Santa Barbara	X			X
4	Olcott, A.N. , Corsetti, F.A., Sessions, A.L., Kaufman, A.J., 2005. Signs of Photosynthesis in a Low-Latitude Neoproterozoic Glaciation, Geological Society of America, 2005 Annual Meeting. I wrote and delivered the presentation and conceived of the project.	X			X
3	Olcott, A.N. , Corsetti, F.A., Sessions, A.L., 2005. Biomarkers of a Neoproterozoic Glaciation, Earth System Processes II, 2005. I wrote and delivered the presentation and conceived of the project.	X			X

		MA	AR	mA	PI
2	<p>Olcott, A.N., Lorentz, N.J., Corsetti, F.A., Berelson, W.M., 2004. Reevaluation gravimetric determination of carbonate associated sulfate concentrations, Geological Society of America, 2004 Annual Meeting</p> <p>I wrote and delivered the presentation and conceived of the project.</p>	X			X
1	<p>Olcott, A.N., Corsetti, F.A. and Awramik, S.M., 2002. A new look at stromatolite form diversity. Geological Society of America, 2002 Annual Meeting.</p> <p>I wrote and delivered the presentation and conceived of the project.</p>	X			X

Minor Presentations

Key to table: PR: peer reviewed; MA: major author; AR: advisee research; mA: minor author; PI: major role in project idea and design; students I advise are *italicized*

		MA	AR	mA	PI
11	<p>INVITED: Olcott Marshall, A. Trouble with the Rover? Optimizing instrumentation for the 2020 Mars Rover mission. KU Astrobiophysics Group</p> <p>I invented the project, and wrote the presentation.</p>	X			X
10	<p>INVITED: Olcott Marshall, A., Marshall, C.P., 2013, Complications in the search for Early Life. KU Astrobiophysics Group.</p> <p>I co-invented the project, and wrote the presentation.</p>	X			X
9	<p>Olcott Marshall, A.*, <i>Anderson, B.M.</i>, <i>Wehrbein, R.L.</i>, Lieberman, B.S., Lin, J.-P., and Marshall, C.P., 2012, A Molecular View of the Burgess Shale-Type Preservation Mechanism, Midwest Geobiology Research Symposium</p>	X	X		X

		MA	AR	mA	PI
8	<i>Emry, J.R., Marshall, C.P., Olcott Marshall, A., 2012. Geobiological Implications of the Apex Chert Microfossils. Midwest Geobiology Research Symposium</i>	X	X		X
7	Marshall, C.P., Olcott Marshall, A. , 2012. Organic Geochemistry of Oil Shales. Kansas Interdisciplinary Carbonates Consortium Annual Review Meeting. I co-invented the project, and co-wrote the presentation.	X			X
6	INVITED: Marshall, C.P., Olcott Marshall, A. , 2012. The search for the earliest evidence of life on Earth: A cautionary tale. KU Astrobiophysics Group. I co-invented the project, and co-wrote the presentation.	X			
5	Olcott Marshall, A. , Marshall, C.P., 2011. The Importance of Oil Shale Macromolecular Chemistry for Maximizing Retorting Potential. Kansas Interdisciplinary Carbonates Consortium Annual Review Meeting. I co-invented the project, and co-wrote the presentation.	X			X
4	<i>Nowaczewski, V.S., Marshall, C.P., Olcott Marshall, A., 2011. An Organic Geochemical and Microfaunal Case Study of the Woodford Shale. Kansas Interdisciplinary Carbonates Consortium Annual Review Meeting.</i> I invented the project, and wrote the presentation.	X	X		X
3	INVITED: Olcott Marshall, A, Emry, J.R., Marshall, C.P. 2011. The search for life in the 3.5 billion year old Apex Chert. KU Astrobiophysics Group. I co-invented the project, and co-wrote the presentation.	X	X		X

		MA	AR	mA	PI
2	<p>INVITED: Marshall, C.P., Olcott Marshall, A., 2009. The hydrocarbon generation potential of oil shales based on chemical content. Kansas Geological Society.</p> <p>I co-invented the project, co-wrote the presentation, and gave the lecture.</p>	X			X
1	<p>INVITED: Olcott, A.N., Marshall, C.P., 2008. The hydrocarbon generation potential of oil shales based on chemical content. ExxonMobil production group. <i>Invited Lecture</i></p> <p>I co-invented the project, and co-wrote the presentation.</p>	X			X

C. Grants and/or other Funded Projects

External Funding

Funded Proposals

- 2012 ConocoPhillips: **Olcott Marshall, A.** and Marshall, C. P., Pilot Study: Potential biological affinity of porosity producing organic carbon in shale carbonates a predictive approach. Funding received: \$5361.

Invited proposal internally reviewed process. I am co-PI.

Internal Funding

- 2013 University of Kansas General Research Fund: **Olcott Marshall, A.**, Pilot Study: Determining the biogenicity of stromatolites. Funding Received: \$1500

SERVICE RECORD

A. University of Kansas Service

Department

- 2013 Head of search committee for departmental teaching postdoctoral researcher
- 2012-present Departmental Undergraduate Studies Committee member
- 2009-present Department Safety Officer
- 2012 Panel member advising graduate students on how to pursue a career in academia
- 2010 Panel member advising undergraduate students on how to apply to graduate school
- 2008-2012 Departmental Graduate Admissions Committee member
- 2008 Speaker for Department Alumni event, Houston, TX

College of Liberal Arts and Sciences

2009-present Member of College Academic Misconduct Board

University

- 2013 Grant reviewer for University Undergraduate Research Award
- 2009-2010 Led tours of Multidisciplinary Research Building (including Geobiology facilities) for KU Honors Scholars admitted students, 4 times
- 2009 Led tours of Geobiology facilities in the Multidisciplinary Research Building for KU Women's Auxiliary Board
- 2008 Faculty judge for Graduate Student Research Competition

B. Professional Service outside the University

- 2013 **Grant Reviewer** for American Chemical Society Petroleum Research Fund and CRDF Global Small Grants Funds (a US Congress mandated grant program to encourage scientific endeavors in the former Soviet Republics)
- 2012-present **Secretary**, Division of Geobiology and Geomicrobiology, Geological Society of America
- 2012 **Grant Reviewer** for University of Missouri Research Board
- 2012 **Invited Panel Member** NASA Astrobiology Institute Grant Review Panel (*NB* the grant panels at NASA are by invitation)
- 2010-2012 **Treasurer**, Division of Geobiology and Geomicrobiology, Geological Society of America
- 2011 **Committee Member**, Honorary Membership in SEPM Society for Sedimentary Geology Committee
- 2011 **Invited Panel Member** NASA Mars Science Laboratory Grant Review Panel (*NB* the grant panels at NASA are by invitation)
- 2011 **Invited Panel Member** NASA ExoMars Review Panel (*NB* the grant panels at NASA are by invitation)
- 2011 **Co-Convener** for the following Geological Society of America Annual Meeting session: New Ideas on Studying Exceptionally Preserved Fossils: What to Do Next? (*GSA Geobiology & Geomicrobiology Division; Chinese Academy of Sciences; State Key Laboratory of Palaeobiology and Stratigraphy; Nanjing Institute of Geology and Palaeontology*)
- 2010 **Invited Panel Member** NASA Exobiology Grant Review Panel (*NB* the grant panels at NASA are by invitation)

2008 **Invited Panel Member** NASA Exobiology Grant Review Panel (*NB* the grant panels at NASA are by invitation)

International

2006-present **Reviewer for:** Geochimica Cosmochimica Acta, Geology, GSA Bulletin, Nature Geoscience, Precambrian Research, Organic Geochemistry, PLoS One, Palaios, Palaeogeography, Palaeoclimatology and Palaeoecology, Journal of Raman Spectroscopy, Journal of Sedimentology, Space Science Research (total of 12)

2010 **Invited Participant**, Agouron/PSU Anoxygenic Photosynthetic Environments Workshop