

Joseph Mohan

CURRICULUM VITAE

Joseph.Mohan@maine.edu

734.740.9256

EDUCATION

University of Maine, Climate Change Institute

Ph.D. in Ecology and Environmental Sciences

Quaero

Dissertation: Paleolimnology of Herd Lake, Idaho.

Adviser: Jasmine Saros

Indiana State University

M.S. in Earth and Quaternary Sciences

2015-

2017

Thesis: Taxonomy and Paleolimnology of the Bacillariophyceae (Diatoms) from lacustrine sequences in the Pliocene Hadar Formation,

Afar Regional State, Ethiopia

Adviser: Jeffery Stone

Central Michigan University

B.S. in

Geology

2009-2014

Thesis: A new occurrence of scolecodonts (polychaete jaws) in the Middle Devonian Gravel Point Formation of West Michigan

Adviser: Reed Wicander

RESEARCH EXPERIENCE

Department of EES, Indiana State University

2015-

2017

Research topic: *Hominin Sites and Paleolakes Drilling Project: Understanding of the paleoenvironmental/paleoclimatic context of homonin evolution.*

Department of Geology, Central Michigan University

2013-

2014

Research topic: *A new occurrence of scolecodonts (polychaete jaws) in the Middle Devonian Gravel Point Formation of West Michigan*

Department of Geology, Central Michigan University

2013

Research topic: *Investigating emplacement mechanism of the Maiden Creek Sill in the Henry Mountains, Utah*

Department of Geology, Central Michigan University

2012-

2013

Research topic: *A paleoenvironmental analysis of the Middle Devonian Gravel Point Formation, Western Michigan.*

Department of Geology, Central Michigan University

2011

Research topic: *Environmentally Hazardous Boron in Gold Mine Tailings, Timmins, Ontario, Canada*

RELATED WORK EXPERIENCE

Indiana State University, Department of EES

2015-

2017

Graduate Research Assistant

Pace Analytical

Laboratories

2014-2015

Service Center Manager/Client and Sample Coordinator

TEACHING EXPERIENCE

Indiana State University

2016

Indiana State University	2010
Diatom taxonomy and ecology short course for 7 new students in the Paleolimnology Laboratory	
Turkey Run High School	2016
Field trip coordinator to teach 17 local high school students how to utilize diatoms in environmental studies	
Indiana State University	2016
Guest lecturer for Sedimentology and Stratigraphy ENVI 475	
Indiana State University	2016
Summer Undergraduate Research Experience (SURE) Graduate student mentor of five undergraduate researchers in the paleolimnology laboratory	
Indiana State University	2015
Supplemental Teaching Assistant for Intro to Environmental Science Lab ENVI 110L	
Central Michigan University	2011
Teaching Assistant for Intro to Earth Systems GEL 100	

PUBLICATIONS

Mohan, J. , Stone, J. R., Nicholson, K., Neumann, K., Dowling, C., & Sharma, S. review) <i>Lindavia biswashanti</i> , a new Bacillariophyta (diatom) from the highest elevation lakes in the world, Himalayan Range, Nepal. <i>Phytotaxa</i>	(In
Brindel, M., Mohan, J. , Beck, C., & Stone, J. R. review) Three novel species of Bacillariophyta (Diatoms) in the genera <i>Suirella</i> and <i>Thalassiosira</i> from Pleistocene Paleolake Lorenyang (~2 - 1.6 Ma) Turkana Basin, Kenya. <i>Phytotaxa</i>	(In
Mohan, J. Taxonomy and Paleolimnology of the Bacillariophyceae (Diatoms) from lacustrine sequences in the Pliocene Hadar Formation, Afar Regional State, Ethiopia <i>Thesis: Indiana State University</i>	2017
Mohan, J., Stone, J. R., & Campisano, C. J. Three novel species of Bacillariophyta (Diatoms) Belonging to <i>Aulacoseira</i> and <i>Lindavia</i> from the Pliocene Hadar Formation, Afar Depression of Ethiopia <i>Phytotaxa</i> 272 (4): 235–247 http://dx.doi.org/10.11646/phytotaxa.272.4.1	2016
Mohan, J. A Paleoenvironmental Analysis of the Middle Devonian Gravel Point Formation, Western Michigan <i>The Professional Geologist</i> 50(6) p.12-16	2013

PRESENTATIONS

Mohan, J. & Stone, J. R. Oscillations in monsoon strength recorded in the diatom record of Paleolake Hadar from the Pliocene Hadar Formation, Northern Awash Valley, Ethiopia Paper No. 53-7, <i>Geological Society of America Abstracts with Programs</i> . Vol. 49, No. 2 doi: 10.1130/abs/2017NE-291301 Oral Presentation	2017
Mohan, J., Stone, J. R., & Campisano, C. J. Diatoms from the Pliocene Hadar Formation, Afar Depression, Ethiopia. Paper No. 111-3, <i>Geological Society of America Abstracts with Programs</i> . Vol. 48, No. 7 doi: 10.1130/abs/2016AM-287723 Oral Presentation	2016

- Stone, J. R., Mohan, J., Campisano, C. J.,** 2016
 The fossil diatom record of Paleolake Hadar. Paper No. 253-4,
Geological Society of America Abstracts with Programs. Vol. 48, No. 7
 doi: 10.1130/abs/2016AM-285592
 Poster Presentation
- Mohan, J. & Stone, J. R.** 2016
 Novel *Aulacoseira* and *Stephanodiscus* from the Pliocene Hadar Formation,
 Afar Depression, Ethiopia
International Diatom Symposium
 Poster Presentation
- Mohan, J., Stone, J. R., Campisano, C.J. & Cohen, A.S.** 2016
 Diatoms from Afar: novel species of Bacillariophyceae (diatoms) from
 the Pliocene Hadar Formation, Ethiopia.
Geological Society of America North Central Section Meeting
 Poster Presentation
- Mohan, J., & Stone, J. R.** 2016
 Diatoms from the Pliocene Hadar Formation, Afar Region, Ethiopia.
Hominin Sites and Paleolakes Drilling Project Annual Meeting,
 Poster Presentation
- Stone, J. R., Owen, B., Muiruri, V., Westover, K., Brindle, M., & Mohan, J.** 2016
 Update on Diatom Paleoecology Progress.
Hominin Sites and Paleolakes Drilling Project Annual Meeting,
 Oral Presentation
- Stone, J. R., Westover, K.S., Brindle, M., & Mohan, J.** 2015
 Plio-Pleistocene Diatoms From Three East African Rift Lakes.
North American Diatom Symposium
 Poster Presentation
- Mohan, J.** 2014
 A new occurrence of scolecodonts (polychaete jaws) in the
 Middle Devonian Gravel Point Formation of West Michigan.
Undergraduate Research Symposium, Central Michigan University.
 Poster Presentation
- Mohan, J.** 2013
 A Paleoenvironmental Analysis of the Middle Devonian Gravel
 Point Formation, Western Michigan. *Geological Society of America*
125th annual meeting & expo Denver, Colorado Paper No. 94-11,
 Oral Presentation
- GRANTS & AWARDS**
- Research and Creativity Award** 2017
 Indiana State University College of Graduate and Professional Studies
- Outstanding Graduate Assistant Award** 2017
 Indiana State University College of Graduate and Professional Studies
- Graduate Student Research Fund (Indiana State University)** 2015
 Title: 3.6-2.3 Million Year Old Climate Reconstruction of the Afar
 Region in East Africa During Human Ancestor (Hominin) Evolution.
 Funded: \$300
- Second Place Poster**
 Poster presentation. *AIPG 50th Anniversary Annual*
 2013
Meeting Undergraduate Poster Competition. Broomfield, CO.
 Award: \$150
- Bailiwick Award** 2013
 Central Michigan University Award for outstanding performance
 and future promise in paleontology and stratigraphy.

PROFESSIONAL DEVELOPMENT

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Indiana University, Purdue University, Indianapolis (IUPUI)

Scanning electron microscope technical
training 2017

Indiana State University

- Sycamore Outdoor-center for Limnology Research (SOLR) 2016
- Graduate Researcher, Summer research program 2016
- Tutor for 300 level GEOL and ENVI classes 2015-
- “Night at the museum” family friendly open house of laboratories 2015-2017

Diatoms of the United States

Taxon Contributor,
<https://westerndiatoms.colorado.edu/> 2016-
Species contributed: *Lindavia affinis*

Geological Society of America

North Central Section Meeting undergraduate poster session
judge 2016

Department of EES, Indiana State University

Livingston sediment core collection at the
Cahokia Mounds, Unesco World Heritage Site. 2015

APPOINTMENTS & AFFILIATIONS

Indiana State University

2017 2016-

Graduate student representative to the faculty committee

Geological Society of America

Student Member 2013-

The Paleontological Society

Student member 2013-

American Institute of Professional Geologists

Student member 2011-

Indiana State University

Sycamore Rock Climbing
Coalition 2015-2017

Founding member

Central Michigan University

High Adventure, rock climbing and whitewater paddling
club 2010-2013

President

FLORA DESCRIBED

Order Aulacoseirales

Family Aulacoseiraceae

Aulacoseira haruoi (Okuno) Mohan & Stone, *comb., stat. et nom.*
nov. 2016

Aulacoseira gadebensis (Gasse) Mohan & Stone, *comb., stat. et nom.*
nov. 2016

Aulacoseira helianthus Mohan & Stone, *spec.*
nov. 2016

Aulacoseira jewsonii Mohan & Stone, *spec.*
nov. 2016

Order Thalassiosirales

Family Stephanodiscaceae

Lindavia cohenii Mohan & Stone, *spec.*
nov. 2016

