

CLAUDIA C. JOHNSON

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EDUCATION

University of Colorado, Boulder, Geological Sciences; Ph.D. 1993, M.S. 1984, B.A. 1981
Universidad Veracruzana, Mexico, Study Abroad Program

PROFESSIONAL APPOINTMENTS

2018-present Professor, Department of Earth and Atmospheric Sciences, IUB
2018-present Associate Director, Center for Underwater Science
2018-present Interim Director, Center for Biological Research Collections
2018-present Affiliate Faculty, Center for Latin American and Caribbean Studies
2009-2017 Research Associate, Center for Underwater Science, School of Public Health
2003-2017 Associate Professor, Indiana University, Bloomington
1996-2003 Assistant Professor, Indiana University, Bloomington
1995-1996 Visiting Assistant Professor, Indiana University, Bloomington
1993-1995 Post-Doctoral Research Associate, Pennsylvania State University
1989-1990 Instructor, University of Northern Colorado
1985-1987 Instructor, University of Puerto Rico, Mayaguez
1985 Consulting Geologist, Gustavson Associates, Boulder, CO
1984 Consulting Geologist, The Clover Corporation, Denver, CO
1984 Consulting Geologist, Department of Archaeology, University of Denver, CO
1980 Geologic Field Assistant, Washington State University
1978 Geologic Field Assistant, U.S. Geological Survey, Division of Uranium and Thorium

PROFESSIONAL HONORS AND AWARDS

Trustees Teaching Award in the Tenure Track Faculty, College of Arts and Sciences, 2013-2014
Teaching Excellence Recognition Award, Department of Geological Sciences, 2000, 2012
Fellow, Faculty Learning Community, Indiana University, 2004-2017
Distinguished Lecturer, The Paleontological Society, 2002-2004; 2000-2002
Fulbright-Hays Award to Peru (declined award for University of Puerto Rico Instructorship)
Honorable Mention, Society of Economic Paleontologists and Mineralogists, co-authored paper
American Association of University Women, Boulder Branch Award
Association for Women Geoscientists Award, Denver Chapter
Zena Hunter Andrews Fellowship, University of Colorado
Graduate School Protected Class Fellowship, University of Colorado, Boulder
Graduate School Dean's Small Grant Award
Longley-Wahlstrom-Warner Award, University of Colorado
Academic Scholarship, University of West Indies, Jamaica
Paleontological Society Research Grant-in-Aid
Geological Society of America Student Research Grant
Department of Geological Sciences Competitive Research Grants
Research Assistantships: Gulf, Arco, Amoco, Marathon, Shell companies

EDITORIAL POSITIONS

Associate Editor, *Palaios*, 2006 – 2010

Co-Editor, *Journal of Asian Earth Sciences*, V. 21, Issue 8. Hirano, H. and **Johnson, C.C.** 2003. *Land-Ocean Interactions of Carbon Cycle and Bio-diversity Change during the Cretaceous in Asia*. Includes 15 refereed papers, p. 803-977.

Co-Editor, *Geological Society of America, Special Paper 332*, Barrera, E. and **Johnson, C.C.** 1999. *Evolution of the Cretaceous Ocean-Climate System*, 445pp. Includes 22 refereed papers.

FEDERAL RESEARCH GRANTS

AWARDED

NSF 8/1/17 - 7/30/19; \$149,387; Motz, G., **Johnson, C.C.**, Polly, P.D. Title: *Digitization PEN: Paleoniches on the western Cincinnati arch, the Ordovician of Indiana*

IMLS – Institute of Museum and Library Services MA-30-16-0458-16; 10/1/16 - 9/30/18, \$112,505; Motz, G., Polly, P.D., and **Johnson, C.C.** Title: *ACCESSIONing at Indiana University: Promoting Digital Access and (Re-) Discovery of the IU Paleontology Collection*.

NSF EAR 9/1/09-8/31/13, \$475,302, Schieber, L., **Johnson, C.C.**, Polly, P.D., and Elswick, E. R., Title: *Infrastructure upgrade, curation and data basing of Indiana University collections*.

USAID, 10/2010–12/2011, \$100,000, Beeker, C.D., Conrad, G., **Johnson, C. C.**, and key personnel A. Budziak, F. Hanselmann, N. Wiegand, E. Kauffman, Z. Bonilla. Title: *Living Museums of the Sea: A Network of Marine Protected Areas in SE Dominican Republic*.

USAID, 9/08-8/10, \$200,000. Beeker, C.D., Conrad, G., **Johnson, C.C.**, and key personnel A. Budziak, F. Hanselmann, N. Wiegand, E. Kauffman, Z. Bonilla. Title: *Living Museums of the Sea: A Network of Marine Protected Areas in SE Dominican Republic*.

NSF SGER, 8/1/07 – 7/31/08. \$10,000, Kauffman, E.G., Elswick, E.R., and **Johnson, C.C.** Title: *A Search for the Oldest Metazoan Trace Fossils in the Northern Hemisphere*.

NSF SGER, 7/1/2002-6/30/2003, \$20,382, **Johnson, C.C.** Title: *Sequence stratigraphy and paleocommunity analysis of an Oligocene reef tract, Lares Limestone, Puerto Rico*.

NSF EAR, 12/31/2001-6/30/2002, \$15,000, **Johnson, C.C.** Supplemental award.

NSF EAR, 8/1/2000–6/30/2002, \$75,000, **Johnson, C.C.** Title: *Comparative role of scleractinian corals and ancient rudist bivalves in Cretaceous reefs: Implications for changes in reef composition in a future greenhouse world*.

NSF EAR, 2/95-12/97, \$200,000, **Johnson, C.C.**, Kauffman, E.G., Barron, E.J., Arthur, M.A. Title: *Testing the hypothesis of a Cretaceous supertropical climate zone in the Caribbean Province: Do climate simulations and observational data support the concept of tropical stability?*

NON-FEDERAL RESEARCH GRANTS

National Geographic, 2008, \$80,000. Beeker, C.D., Conrad, G., **Johnson, C. C.** and key personnel A. Budziak, F. Hanselmann. Title: *Shipwreck! Captain Kidd*.

UNIVERSITY RESEARCH GRANTS

- Institute for Advanced Study IU, Individual Research Award, **Johnson, C.C.**, 2014-2016, \$3000.
- IU HPER FRSP, 12/08-1/10. \$25,000, Bonilla-Vega, Z., **Johnson, C.C.**, Edwards, P.D., and Ona, F. Title: *Community-based participatory research, community health, and the use of underwater resources in the SE of the Dominican Republic: Exploring the Nexus.*
- IU Overseas Research Grant, Office VP for International Affairs, 12/08-11/09, \$2,000, **Johnson, C.C.**, Title: *Investigation of Environmental Conditions Favorable to the Sustainability of Modern Reefs.*
- IU Grant-in-Aid of Research, 2008, \$2,500, **Johnson, C.C.** Title: *Biological Assessment of Coral Cover for the Establishment of a Marine Preserve, Dominican Republic.*
- IU Multidisciplinary Ventures and Seminars Fund, 8/08-9/09, \$6,250, Schieber, L., Polly, P. D., **Johnson, C.C.**, and Elswick, E.R. Title: *Natural History Collections in 21st Century Scholarship, Education and Outreach: An Integrative Seminar across Time and Space.*
- IU Multidisciplinary Ventures and Seminars Fund, 2005, \$5,500, Dalkilic, M.M., Elswick, E. R., and **Johnson, C.C.** Title: *Resource Preservation and Development: Integrating Informatics and Geological Sciences to Initiate Global-Scale Paleoclimate Research.*

UNIVERSITY TEACHING GRANTS

- IU CITL Summer Writing Teaching Grants 2012-13, \$1500, **Johnson, C.C.**

PEER-REVIEWED RESEARCH PUBLICATIONS

IN PRESS

- Zimmerman, A.Z., **Johnson, C. C.**, Polly, P.D., in press. Taxonomic and evolutionary pattern revisions resulting from geometric morphometric analysis of Pennsylvanian Neognathodus conodonts, Illinois Basin. *Paleobiology.*

IN REVIEW

- Wang, Q., Yang, S., Qiao, L., Wang, J., Zhang, Q., and **Johnson, Claudia C.** *in review*, Terrestrial deposition process of Quaternary karst bauxites in Yongjiang Basin, southwestern China Block: implication for the genesis of ancient karst bauxites. *Mineralium Deposita*, Submitted for review September 2017

IN MANUSCRIPT

- Johnson, C.C.**, Davis, A., and Elswick, E. Characterization of Cretaceous carbonate sequences in the Central Igneous Province of Puerto Rico. 30 ms pp, 7 figs. Planned submission to *Palaios*, Fall 2017.
- Kauffman, E.G., Imlay, R W., Laudon, T.S. and **Johnson, C.C.** Dominant Jurassic Mollusca from the Orville and Lassiter Coasts, Eastern Ellsworth Land, Southern Antarctica. 110 ms pages, 25 figs, 3 tables. Planned submission to *Journal of Paleontology*, Spring 2018.
- Jackson K. Njau, Ian G. Stanistreet, Harald Stollhofen, Kathy Schick, Nicholas Toth, Lindsay J. McHenry, Alan L. Deino, Kai Lu, Sherif Hanafy, Gerard Schuster, Simon Brassell, **Johnson, C.C.**, Katherine Freeman. Coring and seismic surveys shed new light on hominin evolutionary framework at Olduvai Basin, Tanzania. In preparation for *Science*. 15 ms pages including appendices. Planned submission to *Science*, Fall 2017.

PUBLISHED

- Johnson, C.C.**, Njau, J.K., Van Damme, D., Schick, K., and Toth, N., 2016. Paleocologic significance of malacofauna, Olduvai Gorge, Tanzania. *Palaios* 31 (6):319-326. doi:10.2110/palo.2016.001
- Jenne, M., Dalkilic, M.M., and **Johnson, C.C.**, 2016. Employing Software Engineering Principles to Enhance Analysis of Coral Reef Databases. Proceedings Volume, 13th International Coral Reef Symposium, Honolulu, p. 404-413. <https://sgmeet.com/icrs2016/>
- Jenne, M., Zimmerman, A., Kurban, H., **Johnson, C.C.**, and Dalkilic, M.M., 2016. Employing software engineering principles to enhance management of climatological datasets for coral reef analysis. In A. Banerjee, W. Ding, J. Dy, V. Lyubchich, A. Rhines (Eds.), I. Ebert-Uphoff, C. Monteleoni, D. Nychka (Series Eds.), Proceedings of the 6th International Workshop on Climate Informatics: CI 2016. NCAR Technical Note NCAR/TN-529+PROC, Sept 2016, doi: 10.5065/D6K072N6. ISBN 978-0-9973543-1-2.
- Maus, M.J., Beeker, C.D., Wasylenki, L.E., and **Johnson, C.C.**, 2014. Preliminary analysis of 16th-Century wrought iron: Caballo Blanco, Dominican Republic. In C. Dagneau and K. Gauvin, Eds., ACUA Underwater Archaeology Proceedings 2014, p. 207-216.
- Simonelli, G.A., **Johnson, C.C.**, Elswick, E.R., Kauffman, E.G., Eble, C.F., and Hasiotis, S.T., 2013. Sedimentology, geochemistry and paleobiology of a Pennsylvanian marginal marine depositional environment, Mansfield Formation, Indiana, USA. *Indiana Geological Survey Occasional Paper 71*, p. 1-18.
- Kay, R.F., Hunt, K.D., Beeker, C.D., Conrad, G.W., **Johnson, C.C.** and Keller, J., 2011. Preliminary notes on a newly discovered skull of the extinct monkey *Antillothrix* from Hispaniola and the origin of the Greater Antillean monkeys. *Journal of Human Evolution* 60(1):124-128.
- Elswick, E.R., and **Johnson, C.C.**, 2010. Evaluation of a siliciclastic diamictite from the Maya Mountains of Belize. *Journal of South American Earth Sciences* 29:676-684. doi:10.1016/j.jsames.2009.11.005
- Liu, F., Le, C., McKnight-Whitford, A., Xia, Y., Wu, F., Elswick, E., **Johnson, C.C.**, and Zhu, C., 2010. Antimony speciation and contamination of waters in the Xikuangshan antimony mining and smelting area, China. *Environmental Geochemistry and Health* 32(5):401-413.
- Puchalski, S.S., **Johnson, C.C.**, Kauffman, E.G., and Eernisse, D.J., 2009. A new genus and two new species of multiplacophoran chitons, Mississippian (Chesterian), Indiana, *Journal of Paleontology* 83(3):422-430.
- Kauffman, E.G., and **Johnson, C.C.**, 2009. Cretaceous warm climates. In, Gornitz, V., Editor, *Encyclopedia of Paleoclimatology and Ancient Environments*, *Encyclopedia of Earth Sciences Series*, Springer, p. 213-217.
- Puchalski, S.S., and **Johnson, C.C.**, 2008. Preservation potential of *Katharina tunicata* and *Mopalia muscosa* (Mollusca, Polyplacophora) on two rocky shores of San Juan Island, Washington, USA. *Lethaia* 42:167-178.
- Puchalski, S.S., Eernisse, D.J., **Johnson, C.C.**, 2008. The effect of sampling bias on the fossil record of chitons (Mollusca, Polyplacophora). *American Malacological Bulletin* 25: 87-95.
- Johnson, C.C.**, and Kauffman, E.G., 2007. Notes on the Perkins Rudist Collection at PRI. *American Paleontologist* 15(3):21.
- Johnson, C.C.**, and Kauffman, E.G., 2006. "Bivalve, rudist" In AccessScience@McGraw-Hill, <http://www.accessscience.com>, DOI 10.1036/1097-8542.802330.
- Hirano, H. and **Johnson, C.C.** 2003, Editors, *Land-Ocean Interactions of Carbon Cycle and Bio-diversity Change during the Cretaceous in Asia*, *Journal of Asian Earth Sciences* 21(8):803-977. Includes 15 refereed papers.

- Hirano, H., and **Johnson, C.C.**, 2003. Introduction. *In* Hirano, H., and Johnson, C. (eds.), Land-Ocean Interactions of Carbon Cycle and Bio-diversity Change during the Cretaceous in Asia. *Journal of Asian Earth Sciences* 21(8):803-805.
- Johnson, C.C.**, Sanders, D., Kauffman, E.G., and Hay, W.W., 2002. Patterns and processes influencing Upper Cretaceous reefs. *In* Kiessling, W., Flugel, R., and Golonka, J (eds.) *Phanerozoic Reef Patterns*. Society for Sedimentary Geology, Special Publication 72, p. 549-585.
- Johnson, C.C.**, 2002. The Rise and Fall of Rudist Reefs. *American Scientist* 90:150-155.
- Johnson, C.C.**, 2002. Reply to Wolfe's Editorial Comment in Letters Section. *American Scientist*, 91.
- Johnson, C.C.**, and Kauffman, E.G., 2001. Cretaceous evolution of reef ecosystems: A regional synthesis of the Caribbean tropics. *In* Stanley, G. D., Jr. (ed.) *The History and Sedimentology of Ancient Reef Ecosystems*. Topics in Geobiology Series, Kluwer Academic/Plenum Publishers, p. 311-349.
- Kauffman, E.G., Herm, D., **Johnson, C.C.**, Harries, P., and Hofling, R., 2000. The ecology of Cenomanian lithistid sponge frameworks, Regensburg area, Germany. *Lethaia* 33:214-235.
- Johnson, C.C.**, 2000. Review of: The Pattern of Evolution, by Niles Eldredge, W. H. Freeman. *Journal of Geoscience Education* 48(5):716-717.
- Johnson, C.C.**, 1999. Evolution of Cretaceous surface current circulation patterns, Caribbean and Gulf of Mexico. *In* Barrera, E., and Johnson, C. C. (eds.) Evolution of the Cretaceous Ocean-Climate System. *Geological Society of America Special Paper* 332, p. 329-343.
- Poulsen, C.J., Barron, E.J., **Johnson, C.C.**, and Fawcett, P.J., 1999. Links between major climatic factors and regional oceanic circulation in the mid-Cretaceous. *In* Barrera, E., and Johnson, C. C. (eds.) Evolution of the Cretaceous Ocean-Climate System. *Geological Society of America Special Paper* 332, p. 73-90.
- Barrera, E., and **Johnson, C.C.**, Co-Editors, 1999, Evolution of the Cretaceous Ocean-Climate System. *Geological Society of America Special Paper* 332, 445pp.
- Barrera, E., and **Johnson, C.C.**, 1999. Preface. *In* Barrera, E., and Johnson, C.C. (eds.) Evolution of the Cretaceous Ocean-Climate System. *Geological Society of America Special Paper* 332, p. vii-viii.
- Johnson, C.C.**, Kauffman, E.G., and Barron, E.J., 1997. Tropical boundary fluctuations in the Caribbean Cretaceous. *Proceedings of the 8th International Coral Reef Symposium*, Volume II; Smithsonian Tropical Research Institute, Balboa, Republic of Panama, p. 1677-1680.
- Kauffman, E.G., and **Johnson, C.C.**, 1997. Ecological evolution of Jurassic-Cretaceous Caribbean reefs. *Proceedings of the 8th International Coral Reef Symposium*, Volume II; Smithsonian Tropical Research Institute, Balboa, Republic of Panama, p. 1669-1676.
- Johnson, C.C.**, 1996. Middle Cretaceous reef collapse linked to ocean heat transport: Comment and Reply. *Geology* 25: 478.
- Johnson, C.C.**, Barron, E.J., Kauffman, E.G., Arthur, M.A., Fawcett, P.J., and Yasuda, M.K., 1996. Mid-Cretaceous reef collapse linked to ocean heat transport. *Geology* 24:376-380.
- Johnson, C.C.**, and Kauffman, E.G., 1996. Maastrichtian extinction patterns of Caribbean Province rudistids. *In* MacLeod, N., and Keller, G., (eds.) *The Cretaceous-Tertiary Mass Extinction: Biotic and Environmental Events*. W.W. Norton and Co, p. 231-273.
- Johnson, C.C.** and Kauffman, E.G., 1990. Originations, radiations and extinctions of Cretaceous rudistid bivalve species in the Caribbean Province. *In* Kauffman, E.G., and Walliser, O.H. (eds.), *Extinction Events in Earth History*, p. 305-324. Springer-Verlag, Berlin, Heidelberg.
- Kauffman, E.G. and **Johnson, C.C.**, 1988. The morphological and ecological evolution of middle and Upper Cretaceous reef-building rudistids. *Palaios, Reefs Issue* 3:194-216.

Johnson, C.C., Collins, L.S. and Kauffman, E.G., 1988. Rudistid biofacies across the El Abra Formation (Late Albian(?), Early-Middle Cenomanian), Northeastern Mexico. *Transactions of the 11th Caribbean Geological Conference, Barbados*, 1:1-1:12.

Sageman, B.B. and **Johnson, C.C.**, 1985. Stratigraphy and paleobiology of the Lincoln Limestone Member, Greenhorn Limestone, Rock Canyon Anticline, Colorado. In Pratt, L.M., Kauffman, E.G., and Zelt, F. (eds.), *Fine-grained deposits and biofacies of the Cretaceous Western Interior Seaway: Evidence of Cyclic Sedimentary Processes*, p. 100-109. Society of Economic Paleontologists and Mineralogists Field Trip Guidebook, No. 9. Tulsa, OK.

Sageman, B.B., and **Johnson, C.C.**, 1985. Field Reference Section, Lincoln Limestone Member, Greenhorn Limestone, North Bank, Arkansas River, Rock Canyon Anticline. In Pratt, L.M., Kauffman, E.G., and Zelt, F. (eds.), *Fine-grained deposits and biofacies of the Cretaceous Western Interior Seaway: Evidence of Cyclic Sedimentary Processes*, p. 7-8. Society of Economic Paleontologists and Mineralogists Field Trip Guidebook, No. 9. Tulsa, OK.

UNPUBLISHED FIELD GUIDES

A Field Guide to Cretaceous Facies and Sequence Stratigraphy of Northeastern Venezuela Kauffman, E.G., **Johnson, C.C.**, Villamil, T., 1993. INTEVEP, Filial de Petroleos de Venezuela.

Field Guide to the Cretaceous-Cenozoic Carbonate Platforms and Reefs of Western Puerto Rico, Kauffman, E.G., Frost, S.H., **Johnson, C.C.**, Santos, H., Taggart, B., 1990. 9th Annual Symposium on Caribbean Geology, Mayaguez, PR, 102 pp.

A Field Guide to the Cretaceous Carbonate Platforms and Rudistid Reefs of Jamaica, by Kauffman, E.G., **Johnson, C.C.**, Coates, A.G., and Sohl, N.F., 1989, 117 pp.

The Evolution of Late Jurassic and Cretaceous Reefs, by Kauffman, E.G., and **Johnson, C.C.**, 1988. Short Course Notes: The Evolution of Reef Communities. GSA Annual Meeting, Denver, CO, 49 -92.

Magmatic and Tectonic Processes at Convergent Margins, by Joyce, J., Smith, A.L., Schellekens, J.H., and **Johnson, C.C.**, 1987. 6th Annual Symposium on Caribbean Geology, Mayaguez, PR, 14 pp.

Neotectonics and Geomorphology of Puerto Rico, by Soto, A., Joyce, J., Troester, J.W., and **Johnson, C.C.**, 1986. 5th Annual Symposium on Caribbean Geology, Mayaguez, PR, 58 pp and supplements.

The Geological Assessment of the Pinon Canyon Archaeological Project Site, Southeastern Colorado, by **Johnson, C.C.**, 1984. Submitted to Department of Anthropology, University of Denver, 26 pp.

INVITED LECTURESHIPS AND CONFERENCE SYMPOSIA

- 2017 Department of Earth and Atmospheric Sciences, IUB; Invited presentation title: Evolutionary paleoecology: A model for looking at the past to interpret the future
- 2016 Olduvai Gorge Workshop: Olduvai Gorge Coring Project (OGCP) Workshop, Invited Presentation title: *Paleoecology of fossil molluscan bivalves, Bed III, Olduvai Gorge, Tanzania.*
- 2016 Department of Geology, Invited colloquium speaker, Kent State University (schedule conflict).
- 2014 Invited Keynote Speaker for 4th International Palaeontological Congress, Mendoza, Argentina; Workshop: Cretaceous marine biotas and seaways in Gondwana (unable to participate due to schedule conflict).
- 2014 Olduvai Geological Coring and Seismic Workshop, The Stone Age Institute
- 2013, 2011, 2009 IU Origins Conference: The Evolution of the Universe, the Earth, Life and Human Species
- 2011 IU Mini-U Presentation title: *Coral Reefs–Adaptation to Climate Variability–nor Not!*
- 2011 Peace Corps Dominican Republic: Scientific Diving Technical Workshops, Dominican Republic.
- 2010, 2009 IUB HPER Invited Presenter, Advanced Research Diving Course.
- 2009 North American Paleontology Convention: Crisis in Reefs: Is the Past the Key to the Present?
- 2009 Office for Women's Affairs, Research Poster Workshop, Guest Speaker.

- 2008, 2007 Council for International Exchange, Bonaire, Keynote Public Lecture to Island Community.
- 2008 IU Crossroads Geology Conference.
- 2007 Falls of the Ohio Foundation, Keynote Presentation, Falls of Ohio State Park.
- 2004 University of Western Ontario, London, Ontario, Canada.
- 2004 Five-College Geology Program, including Mount Holyoke College, Smith College, Amherst College, Hampshire College, Williams College and the University of Massachusetts.
- 2004 Texas State University, Department of Biology
- 2002 Indiana University, Department of Geology Colloquium
- 2001 University of Iowa, Department of Geology Colloquium
- 2001 Indiana University, Dept. Geography Colloquium
- 2000 Waseda University, Tokyo, Japan, IGCP 464
- 2000 Indiana University-Purdue Univ. Indianapolis, Fort Wayne, Department of Geology Colloquium
- 2000 University of New Mexico, Albuquerque, Department of Geology Colloquium
- 2000 Ohio Wesleyan University, Department of Geology Colloquium
- 1999 Harvard University, Earth History and Paleobiology Series Colloquium
- 1999 Northwestern University, Department of Geology Colloquium
- 1999 University of Akron, Department of Geology Colloquium
- 1998 Purdue University, Department of Geology Colloquium
- 1998 University of Cincinnati, Department of Geology Colloquium
- 1997 University of Illinois at Chicago, Department of Geological Sciences Colloquium
- 1997 IUPUI, Department of Geology Colloquium
- 1996 Ludwig-Maximilians-Universität München, Institut für Paläontologie und historische Geologie
- 1996 University of South Florida, Department of Geology Colloquium
- 1996 Indiana University, Department of Geological Sciences, Colloquium and Brown Bag Seminar
- 1995 Indiana University, Department of Geological Sciences Colloquium
- 1995 Smithsonian Tropical Research Institute Colloquium Series, Panama City, Panama
- 1994 Pennsylvania State University, Earth Systems Science Center Colloquium

PROFESSIONAL DEVELOPMENT

- Participant, National Center for Faculty Diversity and Development, Faculty Writing Bootcamp, 2014
- Invited Participant, Olduvai Geological Coring and Seismic Workshop, Stone Age Institute, 2014
- Invited Researcher, Olduvai Gorge, Tanzania, Africa, to pursue molluscan research, Stone Age Institute, 2014
- Participant, Grant Writing Workshop, Sponsored by Vice Provost for Research, IUB, 2014
- Participant, Preparing for the Promotion Review, Workshop OVPFAA, IUB, 2014
- Invited Researcher, Olduvai Gorge, Tanzania, Africa, to assist in developing field school and potential research programs, Stone Age Institute, 2013
- Invited Participant, Rice University, Rosenstiel School of Marine and Atmospheric Sciences, Chevron Energy Technology Co., Joint Guadalupe Mountains Field Trip, 2013

GRANTS REVIEWED

- National Science Foundation
- Education and Human Resources Program, Division of Earth Sciences
 - Sedimentary Geology and Paleobiology Program
 - Geology and Paleontology Program
 - Geobiology and Low Temperature Geochemistry Program
 - Office of Polar Programs
 - Paleoclimate Program
 - Division of International Programs

NOAA, Sea Grant College Program
American Chemical Society, Petroleum Research Fund
PaISirp, Paleontological Society Grant Proposals from Eastern Europe

MANUSCRIPTS REVIEWED for JOURNALS

Biological Journal of the Linnean Society
Bulletin of Geosciences
Cretaceous Research
Facies
Geology
Journal of Asian Earth Sciences
Journal of Geoscience Education
Journal of Paleontology
Nature
Palaios
Paleobiology
Palaeontologia Electronica
Paleogeography, Paleoclimatology, Palaeoecology
Paleontological Research, Palaeontological Society of Japan
PLOS ONE
Report of Progress, Indiana Geological Survey
Revista Espanola de Paleontología
Sociedad Mexicana de Paleontología
Terra Nova, The European Journal of Geosciences

MANUSCRIPTS REVIEWED for BOOKS, etc.

Dinosaurs – the Textbook. Columbia University Press, 2014
Phanerozoic Reef Patterns, 2002, SEPM Special Publication 72, *The History and Sedimentology of Ancient Reef Systems*, 2001, Kluwer Academic/Plenum Publishers
Bivalves: An Eon of Evolution, 1998, University of Calgary Press
Coalition for Science Literacy, University of South Florida
IU Instructional Media Library
IU Press – several reviews of book prospectus over the years
IGCP 165 - Stratigraphic Correlation of the Caribbean
Proceedings Volume, 12th Caribbean Geological Conference

TEACHING RELATED ACTIVITIES

PEER REFEREED TEACHING PUBLICATIONS

Johnson, C.C., Middendorf, J., Rehrey, G., Dalkilic, M.M., and Cassidy, K., 2014. Geological time, biological events and the learning transfer problem. *Journal of the Scholarship of Teaching and Learning* 14(4):115-129.

Zhu, C.G. Rehrey, G., Treadwell, B., and **Johnson, C.C.**, 2012. Looking Back to Move Ahead: How Students Learn Deep Geological Time by Predicting Future Environmental Impacts. *Journal of College Science Teaching* - A peer-reviewed journal published by the National Science Teachers Association. 41(3):61-66.

TEACHING AWARDS AND RECOGNITIONS

Trustees Teaching Award in the Tenure Track Faculty, College of Arts and Sciences, 2013-14
Teaching Excellence Recognition Award, Department of Geological Sciences, Indiana University, 2012
Nominated for the Student Choice Awards, Student Alumni Association, 2009
Fellow, Faculty Learning Program, Indiana University 2004 to present
Invited to develop MAPP Pilot Course for fall, 2016
Teaching Excellence Recognition Award, Department of Geological Sciences, Indiana University, 2000

MAJOR AWARDS AND RECOGNITION OF MY STUDENTS

National Science Foundation Graduate Fellowship – Joshua Stewart
2016 Outstanding Young Alumni Award, College of Arts and Sciences, IUB – Joshua Stewart

TEACHING GRANTS

2013 CITL Writing Program, Writing-Teaching Grant Program, IU OVPR Undergraduate Education

TEACHING WORKSHOPS

Invited Speaker

2015 Using writing to teach: An intensive writing roundtable for faculty.
Sponsored by: The College and the Campus Writing Program
2007 IU Scholarship of Teaching and Learning Inquiry Commons (*Invited Participant*)

Participant

2017 The science of studying and learning: What works, what doesn't, and how to help students maximize their potential.
Sponsored by: Center for Innovative Teaching and Learning
2016 Holding students accountable for coming to class prepared.
Sponsored by: Center for Innovative Teaching and Learning
2015 Integrative Learning: Teaching for transfer across the disciplines
Sponsored by: Scholarship of Teaching and Learning
Participant, Intensive Writing Roundtable Discussion sponsored by IU College and Campus Writing Program
Volunteer Instructor, Graduate Teacher Program's Fall Intensive, Univ. Colorado

COURSES TAUGHT (* Indicates courses I designed and developed)

Undergraduate courses

*Beauty: Evolution of Science Coll C-105
*Dinosaurs and their Relatives G114
Principles of Sedimentation and Stratigraphy G334
*Natural History of Coral Reefs G341
*Geobiology G404 and Invertebrate Paleontology G411
*Independent Research Geological Sciences G490
*Independent Research Biology L490

Graduate courses

*Paleoecology G561
*Paleobiogeography G588
*Evolution of Ecosystems G685
Practical Geobiology G600

- *Evolutionary Paleoecology G690
- *Reefs and Global Change G690
- Advanced Techniques (co-taught) G690
- Global Climate Change and the Fossil Record (co-taught) G690
- *Natural History of Coral Reefs G700/G341
- *Coral Climate Informatics G700-36165

Graduate seminars and field excursions

- Olduvai Gorge Research Seminar G690
- *Oligocene Reefs G700
- *Alabama Museum of Natural History and Gulf Coastal Deposits, Tuscaloosa, Alabama.

In-Rank as IU Assistant Professor and Prior to IU

Undergraduate courses

- Prehistoric Life//*Dinosaurs and their Relatives, non-majors G114
- Principles of Sedimentation and Stratigraphy G334
- *Geobiology G404
- Undergraduate Research in Geology G410

Graduate courses

- *Reefs and Global Change G690
- *Evolutionary Paleoecology G690
- *Form, Function and Evolution G690
- *Evolution of Ecosystems G685/G690
- Geologic Problems: Interpreting Paleoclimatic Tools G690

Graduate seminars and team-taught courses

- *Oligocene Reefs G700
- Cenozoic Climate Variations G690
- Processes Influencing Earth's Surface G690
 - Theme 1: The Holocene
 - Theme 2: Origins and Envelope of Life
- Marine Micropaleontology and Paleooceanography G690
- Stratigraphic Linkage between Continental and Marine Records of Cretaceous Climate Change G690

Visiting Assistant Professor, Indiana University

- Prehistoric Life, non-majors G114
- Principles of Sedimentation and Stratigraphy G334
- Undergraduate Research in Geology G410
- Evolution of Reefs, co-taught, graduate course
- Cretaceous Ocean-Climate System, co-taught informal graduate seminar

Post-Doctoral Research Associate, Pennsylvania State University

- Dynamic Evolution of a Paleotropical Ocean-Climate System: Caribbean Province and its Margins, co-taught graduate seminar

Instructor, University of Northern Colorado, Greeley

- *Introductory Oceanography – undergraduate course for Directed Admissions Students
- *Biological Oceanography – upper division undergraduate course

Instructor, University of Colorado, Boulder, fall, 1990

Evolution and Extinction – undergraduate, non-majors course, 300 level

Instructor, University of Puerto Rico, Mayaguez

*Physical Geology

*Environmental Geology

*History of Life

*Paleontology

*Stratigraphy

*Sedimentation

*Supervised Senior, field-oriented theses

STUDENTS SUPERVISED

Ph.D. Degrees, Chair

John Kearney, *In Progress*, enrolled fall 2015

Title: Using phenocryst compositions from reworked tephra to enhance chronostratigraphic resolution of Bed III and Bed IV, Olduvai Gorge, Tanzania

Alexander Zimmerman, *In Progress*, enrolled fall 2014

Title: Evaluating patterns of evolution and paleoecology of extinct taxa: Late Cretaceous rudist bivalves and Middle Pennsylvanian conodonts.

Kathryn D Nold, Graduated 2018. Dual Degree Geological Sciences and Anthropology.

Title: Local Environmental Dynamics on the Atlantic and Caribbean Coasts of Prehistoric Dominican Republic: A Geoarchaeological Approach to Midden Shells and Associated Ceramics.

Stephaney Puchalski, Graduated 2010

Title: Taphonomic approaches to interpretation of the fossil record of chitons (Mollusca, Polyplacophora)

Jen Latimer, Co-Chair with G.M.Filippelli, IUPUI, Graduated 2004

Title: Phosphorus geochemistry and terrigenous sedimentation in the Southern Ocean.

Ph.D. Degrees, Committee Member

Mark Jenne, Department of Computer Science, IUB

Title: Modeling the etiology of coral disease in the Caribbean: Techniques for big disease data

Spencer Hellert, enrolled Fall 2014

Title: Evolutionary dynamics of the limbs of birds and theropod dinosaurs: Testing the influence of functional constraint

Paul Farrugia, enrolled 2013

Title: The paleoecology of Pleistocene hominin landscapes at Olduvai Gorge, Tanzania

Allison Bormet, enrolled Fall 2010

Title: Form, function, and distal phalanx variation in the Ruminantia (Class Mammalia, Order Artiodactyla): A quantitative ecomorphological approach

Blair Hensley Marschand, Graduated 2017

Dual Degree Anthropology and Geological Sciences, Graduated 2017

Title: *Homo erectus* in China: Paleoclimate, paleoenvironment, and subsistence near their northeastern range limit

Michael Smith, Graduated 2017

Title: Faunal dynamics in response to Quaternary climate cycling: A physiographic regional approach

Richard Bykowski, Graduated 2014

Title: Using trait-based approaches to analyze the factors affecting theropod paleoecology in the Mesozoic

Paola Crippa, Graduated 2013

Title: Possibilities for limiting or reversing the impacts of global warming using geoengineering

Michelle Lawing, Graduated 2012

Title: The geographic and morphologic response of species and communities to their climate and environment"

Cindy Elbaz, Graduated 2015

Title: Microbial cycling of sulfur in a mesothermal spring on the Oregon Balalt Plateau

Rituparna Bose, Graduated 2010

Title: Morphometric evolution of Paleozoic brachiopods – The effects of environment and ecological interactions on shell morphology

Charles P. Egeland, Dept. Anthropology, *Minor Advisor*, Graduated Spring 2007

Title: Zooarchaeological and Taphonomic Perspectives on Hominid-Carnivore Interactions at Olduvai Gorge, Tanzania

M.S. Degrees, Chair

John Kearney, Graduated 2016

Title: Applying modern methods of stratigraphic analysis to enhance hominin landscape reconstructions in Bed III and younger, Olduvai Gorge, Tanzania.

Robin Green, Graduated 2012

Title: Analysis of Coral Reef Variation in Bonaire

James Morgenthien, Graduated 2011

Title: Paleocology of the Maastrichtian El Rayo Formation, Southwestern Puerto Rico

Kathryn Nold, Graduated 2009

Title: Indigenous utilization of shallow-water resources from archaeological marine shells in the Dominican Republic.

Allicia Davis, Graduated 2009

Title: Depositional environments of the Barrancas and Rio Maton Limestone Members, Albian, Puerto Rico.

Glenn Simonelli, Graduated 2007

Title: Sedimentology, geochemistry and paleobiology of a marginal marine depositional environment, the Mansfield Formation, Martin County, Indiana

Sonya Hernandez, Graduated 2006

Title: Stratigraphy and Sedimentology of the Lares Limestone, Oligocene, Puerto Rico

Laurie Huff, Co-Chair, Graduated 2005

Title: An analysis of anatomy, lifestyle and feather evolution of early birds and comparisons with *Protoavis texensis*: Was *Protoavis* a bird?

Stephaney Puchalski, Co-chair, Graduated 2005

Title: Taphonomy of chitons (Mollusca, Polyplacophora) and the chiton fossil record

Erica Barrow, Graduated 2004, dual M.S. degrees in Geology and Science Education, non-thesis option in

Geology; Title: Paleontologic investigation of a Middle-Late Oligocene reef complex, San Sebastian Formation and Lares Limestone, Puerto Rico

M.S. Degrees, Committee Member

Sarah Swartz, in progress

Ellen Reat, completed 2016

Emily Gercke, completed 2011

Michael Smith, completed 2010

Mark Harvey, completed 2005

Anwar Soheil, completed 2004

BA/BS Degrees, Chair, Co-Chair and Committee Member

Emma DeLillo, IMP, Co-sponsor with C.D. Beeker

Ashley Drury, IMP, Co-Sponsor with C.D. Beeker

Arianna Lagunas, IMP, Sponsor

Hayley Bedwell, BS Biology, Graduated 2015

Elly Perry, Individualized Major Program

Emily Schultz, IU STARS and COX Programs; BS Geological Sciences, Graduated 2013;

Title: The Taino La Cangrejera middens: Anthropogenic vs. natural taphonomy of coral specifically
Acropora palmata and *A. cervicornis*

Ryan Berner, Individualized Major Program, Marine Biology, co-Sponsor with C. D. Beeker, Graduated 2011;

Title: Analysis of the endangered Caribbean corals: *Acropora palmata* and *Acropora cervicornis* in
the Captain Kidd Marine Protected Area

Josh Stewart, Individualized Major Program, Marine Biology, co-Sponsor with C. D. Beeker, Graduated 2010;

Title: Methods for management: Monitoring marine resources

Erica Medley: Undergraduate Research; Graduated 2008

Title: Coral reefs of Bonaire - mooring buoy anchors Bonaire, BNMP

Nicole Williamson, BSES Program, co-Chair with C. D. Beeker, Graduated 2007

Title: The Role of Artificial Reef Systems as Sustainable Habitats

Jeff Gehlhausen, *School of Informatics*, Capstone Thesis, Committee Member, Graduated 2007

Title: Organizing and Visualizing Indiana's Type Collection using Virtual Earth

Troy Campbell, School of Informatics, Capstone Thesis, Committee Member, Graduated 2005

Title: Paleoinformatics: Bringing the Future to the Past

Nick Leach, B.A. Geological Sciences, Graduated 2005

Title: Biogeography of Ceratopsian Dinosaurs

In-Rank as IU Assistant Professor and Prior to IU

Ph.D. Degrees, Committee Member

Christopher J. Poulsen, Graduated 1999, Pennsylvania State University

Title: *The mid-Cretaceous ocean circulation and its impact on greenhouse climate dynamics*

Meredith Beilfuss, Science Education Dept., enrolled fall, 2001, Member of Advisory Committee

M.S. Degrees, Chair

Leigh Fall, Graduated 2003

Title: *Quantification of coiling in rudist bivalves and assessment of water-energy levels; middle to basal
Upper Albian, Edwards Formation, Texas.*

Chris Willan, Graduated 2000

Title: *Glacial stage reef tract development of the Pleistocene coral cap on Barbados, West Indies:
Implications for tectonic uplift history*

Todd Ventura, Graduated 1999

Title: *Investigation of coral diversity and coral number on disturbance-induced patches: A study of the
intermediate disturbance hypothesis in the Key Largo Formation, Late Pleistocene, Florida*

Kristin Wood, Graduated 1999

Title: *Reconstructing Pleistocene reef development, Barbados, West Indies*

M.S. Degrees, Committee Member

Sean Machovoe, Graduated 1998
Katrina Gobetz, Graduated 1998
Jennifer Ayres Coates, Graduated 1998
Kate Pickford, Graduated 1998

BA/BS Degrees, Chair, Co-Chair and Committee Member

Selena Medrano, IU STARS Program; Committee Chair, Graduated 2003
2001 project title: *Comparison of Modern and Ancient Corals*
2002 project title: *Environmental Factors Affecting Coral Shape Through Time*

SERVICE RELATED ACTIVITIES

DEPARTMENT SERVICE

Director, Graduate Studies Program, 2007-2011
Director, Associate Instructors and Associate Instructor Training, 2007-2011
Elected Member, Policy Committee, 2007, 2008, 2009, 2010, 2011, 2016, 2017
Chair, Undergraduate Curriculum Assessment for Department, 2015-2017
Chair, Owen Award Committee, 2003-2005
Curator and Collections Co-Manager, IU Paleontology Collections, 1996 to present
Co-Author, *Policies and Procedures for Tenure and Promotion*, Dept. Geological Sciences, 2013
Member, Graduate Studies Committee 2004-2005, 2018-19
Member, Curriculum Committee, 2009, 2010
Member, Undergraduate Curriculum Assessment Committee, 2013-2015
Member, Undergraduate Committee, 2006-2007, 2012-2015
Member, Tenure and Promotion Evaluation Committee 2016
Member, Lecturer 3rd Year Evaluation Committee 2016
Member, Preliminary Exam Committee, 2014
Member, John B. Patton Award Committee, 2011-2014, 2016-2017
Member, Tanzanian Funds Advisory Committee, 2016-2017
Member, Geological Sciences Building Emergency Committee, 2014-2017
Member, ad-hoc Space Committee 2016
Faculty Advisor, *Rho* Chapter, Sigma Gamma Epsilon, 2003, 2004, 2015-16, 2016-2017

In-Rank as IU Assistant Professor and Prior to IU

Acting Chair, Graduate Committee, Nov. 2001
Member, Search Committee for External Chair, 1998
Member, Search Committee for Faculty Positions, 2001-2003
Member, Graduate Committee, 1996-2001
Member, Graduate Curriculum Committee, 2000-2001
Member, Salary and Points Committee, 2000-2002
Member, Merit Performance Committee for Staff Evaluation, 1999
Member, Space Committee, 1996-1997
Recorder, Faculty Minutes, 1997-2002

UNIVERSITY AND CAMPUS SERVICE

University

Elected Member, IU Graduate Faculty Council, 2015-2017
Elected Member, Academic Policy Committee, IU Graduate Faculty Council, 2015-2017
Member, IU General Education Committee, 2011-2017
Member, Natural & Mathematical Sciences Subcommittee, IU General Education Committee, 2011-2017
Member, Diving Control Board, 2009-2017
Member, Diving Control Board, Scientific Diving Subcommittee, 2009-2017
Member, Faculty Advisory Board, Center for Innovative Teaching and Learning, 2015-2016
Member, Indiana Geological Survey Advisory Council, 2011-2017

Campus

Co-Founder and Inaugural Executive Committee Member, Center Biological Research Collections, 2013-2017
At-Large Member, Bloomington Faculty Council, 2009
Member, Advisory Board, IU Stone Age Institute, 2006-2007
Member, Committee on Graduate Education, 2012-2014
Member, Academic Fairness Committee, 2013-2015
Member, Dissertation Fellowship Review Committee, 2015-2016
Member, Strategic Planning Committee, Physical and Life Sciences, 2008-2009
Member, Human Evolutionary Studies Committee, 2013-2-14
Mentor, Hutton Honors College Undergraduate Research, 2009-2013
Mentor, Cox Research Scholars, 2009-2013
Co-Sponsor, Individualized Majors Program, Undergraduate Students' Degree Programs
Member, Summer Faculty Fellowship Screening and Evaluation Committee
Member, Faculty Panel for University Graduate School, AGEP
Member, Global Village, Planning and Implementation Committee, 2003-2004
Faculty Marshal, Commencement, IU Bloomington, 2010 and previous years
Member, Faculty Advisory Board, Office for Women's Affairs, Women in Science Program (WISP)
Chair, Earth and Environment Group, Women in Science Program, 2007-2009
Representative, 10th Annual Women in Science Research Conference, Office for Women's Affairs
Institute for Advanced Study, Primary Sponsor of Dr. W. W. Hay, External Academic Fellow, 1999
Institute for Advanced Study, Pre-tenure Sabbatical Group Seminar Participant, 1999
Honors Division Exploring Majors Series, Participant, 1997-2001
Office of Women's Affairs Non-tenured Faculty Advising Committee, Member, 1998-1999
Office of Women's Affairs Faculty Mentoring Program, Participant, 1998
University of Puerto Rico, 1985-1987
Academic Curriculum Committee Member

University of Colorado

Volunteer Scientist, Student Minority Access to Research Program, 1989-1990

PROFESSIONAL SOCIETY SERVICE

The Paleontological Society

Distinguished Lecturer, 2002-2004, 2000-2002
Chair (2014-15), Member (2012-14) Nominations Committee; Presidential Appointment
Member, Strimple Awards Committee, 1999-2000
Member, North American Paleontological Convention Planning Committee 2007-2009
Judge, Paleontological Society, GSA Annual Meeting, 2012, 2013, 2015, 2017

Judge, North American Paleontology Convention, 2014

Evaluator and Judge, Outstanding Student Poster Award, GSA Annual Meeting 2010, 2012

Society for Sedimentary Geology

Associate Editor, *Palaios*, 2006 – 2010

Reviewer of manuscripts, 1998-present

Geological Society of America

Member, Research Grants Committee, 2002-2004, 2000-2002

Mentor, *On To The Future program*, 2015, 2016

Chair, Topical Theme Session: The Tropics Compared: Icehouse & Greenhouse States, Annual Meeting, 1999

Presenter and Co-Author of Short Course "Evolution of Reef Communities", 1988

Translator, Spanish to English, manuscripts

National Science Foundation

Invited Participant, Preservation of Geoscience Research Cores and Collections: The View from Academic Researchers, 2003

Panel Member, Earth Science Post-Doctoral Research Fellowships Program, 1999

Grant Reviewer, Yearly, 1998-2017

International Society for Reef Studies

Co-Chair, 13th International Coral Reef Symposium, Hawaii 2016

Title: *Session 50: Modeling and computational tools for coral reef management and conservation*

Sigma Gamma Epsilon, Rho Chapter

Invited Keynote Speaker, Annual Crossroads Geology Conference, 2014

Faculty Advisor, 2015-2017

Judge, 14th Annual Crossroads Geology Conference, 2014, 2016

International Geological Correlation Programs (IGCP)

U.S. Coordinator, IGCP 464, Land-ocean interactions of carbon cycle and bio-diversity change during the Cretaceous in Asia, 2000-2005

IGCP 335, Participant, Recovery from Mass Extinctions

IGCP 165, Participant, Stratigraphic Correlation of the Caribbean

IGCP 216, Participant, Global Biological Events in Earth History

IGCP 216, Assistant Organizer, Global Bioevents Conference, Colorado, 1985

7th International Conference on Rudists, 2005

Member, Organizing Committee, 2004-2005

Caribbean Geological Conferences

Co-convenor, 9th Annual Symposium on Caribbean Geology, University of Puerto Rico, 1990

Assistant Organizer, 5th and 6th Annual Symposia on Caribbean Geology: Conferences, Field Excursions and Guidebooks, 1986 and 1987

Symposium Co-Organizer, 12th Caribbean Geological Conference, St. Croix, Virgin Islands, 1989

Co-Organizer, International field excursion following the 1989 International Geological Congress: Jamaican Cretaceous biota and carbonate platforms

PROFESSIONAL SOCIETY MEMBERSHIPS

International Society for Reef Studies, 2006-present
The Paleontological Society, 1986-present
Society for Sedimentary Geology, 2003-present
Geological Society of America, 1984-present
American Geophysical Union, 1994-present
Sigma Gamma Epsilon, 2015-present
Sigma Xi, 1998-present

COMMUNITY SERVICE

Coordinator of Public Lectures, IU Office Women's Affairs, Women in Science Program, Bloomington, IN
Coordinator, Fossil Event for Science Olympiad, Indiana State Tournament
Coordinator, Wonderlab Fossil Day, Bloomington, IN
Coordinator, Kids Coalition Event, Salem, Indiana
Coordinator, Brownie Math and Science Event, Girl Scouts, Bloomington, IN
Panelist, Interviewing Skills for Scientists, AAAS-sponsored workshop at IU
Public Outreach, Paleontology Contact Person, Indiana University
Participant: Jobs Track Radio Services for High School Students, IU Radio Program
Volunteer Instructor, September School, Boulder, CO
Lecturer, Gifted Children Program, Baseline Junior High School, Boulder, CO
Board Member, American Association of University Women, Boulder, CO
Environmental Representative, American Association of University Women, Boulder, CO
Volunteer Tutor, taught English to Chilean elementary students, Boulder, CO
Conversation Partner to Latin American students, Boulder, CO
Judge, 38th International Science and Engineering Fair, San Juan, Puerto Rico
Judge, Regional Science Fair, San German, Puerto Rico

Johnson, C. C., Curriculum Vitae, July 6, 2018