

## **Cliff T. Johnston**

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Professor of Agronomy

Professor of Earth Atmospheric and Planetary Sciences

Faculty Affiliate: Bindley Bioscience, Birck Nanotechnology Center, Center for the Environment,  
Purdue Climate Change Research Center, Purdue Water Community

### **Education**

B.Sc. University of California, Riverside (1979) Chemistry

Ph.D. University of California, Riverside (1983) Soil and Environmental Science (Advisor:  
Garrison Sposito)

Postdoctoral Fellow. (1983 - 1985) Los Alamos National Laboratory. Center for Nonlinear Studies  
and the Isotope and Nuclear Chemistry Division (Advisor: Basil Swanson and Irving Bigio)

### **Professional Positions**

Los Alamos National Laboratory, Postdoctoral Fellow (1983 – 1985)

University of Florida, Soil and Water Science Dept. Asst.-Assoc Professor (1985 – 1993)

Los Alamos National Laboratory, Sabbatical Fellow (1991)

Katholieke Universiteit Leuven, Belgium, Sabbatical (1992 and 2002)

Purdue University, Department of Agronomy, Assoc. Professor - Professor (1993 – present)

Purdue University, Department of Earth, Atmospheric and Planetary Sciences (2016 – present)

### **Membership in Academic, Professional and Scholarly Societies**

American Chemical Society

Clay Minerals Society

Soil Science Society of America

### **Awards / Honors**

2018 2018 Brindley Lecturer, The Clay Minerals Society

2015 Named the Andrew Main 2015 Lecturer. University of Alberta, Canada

2008 Awarded Fulbright Fellowship – Brazil.

2006-7 Member of Editorial Board for Geochemical Transactions

2006-7 Member of the Executive Committee for Elements – An international magazine of  
mineralogy, geochemistry, and petrology

2005-6 President of The Clay Minerals Society

2004 Named the George Brown Lecturer – 2004 Clay Minerals Groups of the  
Mineralogical Society (London)

2002 Election to Fellow, Soil Science Society of America

2002 Recipient of the Marion L. and Chrystie M. Jackson Mid-Career Soil Science Award

2002 Curator of the Source Clays Repository

- 2001 ESCOP Leadership Development Program Fellow (Class 10)  
2001 Recipient of the Marion L. and Chrystie M. Jackson Mid-Career Award of The Clay Minerals Society  
1997 Elected to Council - Councilor for the Clay Minerals Society (1997 – 2000)

### **Publication Summary:**

Citation metrics:

Google Scholar: Citations 9640, h-index 52, since 2016 h-index of 31

Web of Science Citation Report (as of June, 2021) h-index 42

<http://orcid.org/0000-0002-8462-9724>

<http://www.researcherid.com/rid/B-2215-2009>

### **Publications - Journal Articles, Book Chapters, Invited Reviews and Edited Books**

#### Summary

Dr. Johnston has published about 200 refereed journal articles, invited reviews, refereed book chapters and has recently edited a book on the surface chemistry of clay minerals. He is a physical chemist who has applied advanced spectroscopic, structural and thermal methods to study of applied problems in soil and water science. His areas of specialization include stabilization of soil organic matter, fate and transport of anthropogenic compounds in the environment, mineral-water and mineral-organic interactions, and developing new methods to quantify greenhouse gas emissions from soils. He has established research collaborations around the world. He has built a highly-successful\ collaboration with researchers at Michigan State University with approximately 40 publications and funded by NIH (NIEHS Superfund) and USDA. He regularly teaches the undergraduate introductory soils class (AGRY 255) in partnership with other faculty, and graduate level course in soil chemistry (AGRY 540), soil biogeochemistry (EAPS 518). In the past, he has taught environmental science (NRES 290), methods of greenhouse gas emissions (AGRY 598) and climate change in Africa. He has graduated 9 PhD students and 5 MSc students, hosted many visiting scholars and has supervised about 7 postdoctoral scholars.