

## **Biographical Data of SRIDHAR KOMARNENI**

### **PRESENT POSITION**

Distinguished Professor of Clay Mineralogy, Materials Research Institute and Department of Crop and Soil Sciences, 205 Materials Research Laboratory, The Pennsylvania State University, University Park, PA 16802.

### **CITIZENSHIP**

U.S. Citizen

### **EDUCATION**

The University of Wisconsin, Madison, WI, Ph.D. in Soils and Geochemistry (1973)

The Indian Agricultural Research Institute, New Delhi, M.S. in Soil Science and Agricultural Chemistry (1970)

A.P. Agricultural University, Bapatla, B.S. in Agriculture (1968)

### **HONORS OR AWARDS**

1. Named highest ranking student, Valedictorian, N.S. High School in graduating class of 1961.
2. Named highest ranking student, Andhra Pradesh Agricultural University in graduating class of 1967, i.e. University first.
3. Received four gold medals, two prizes of books, and one scholarship cup for academic achievements at the end of the B.Sc. degree.
4. Received merit scholarships throughout undergraduate studies.
5. Received Indian Agricultural Research Institute Fellowship for two years during the M.S. degree program.
6. Elected to Sigma Xi, an honorary scientific research society, 1973.
7. Received best paper award from Nuclear Division, American Ceramic Society, 1988.
8. Elected Fellow of the American Association for the Advancement of Science, 1991.
9. Elevated to Fellow of the American Ceramic Society, 1993.
10. Founder and Editor-in-Chief, Journal of Porous Materials, 1994.
11. Elected to Fellow of the Soil Science Society of America, the highest honor of the Society, 1994.
12. Received award for one of the most significant advances in Materials Research from the National Association of Science, Technology and Society with the cooperation of the Federation of Materials Societies, 1994.
13. Elected Fellow of the American Society of Agronomy, the highest honor of the Society, 1995.
14. Marion L. and Christie M. Jackson Soil Science Award for outstanding contributions in the areas of soil chemistry and mineralogy by mid-career soil scientist, The Soil Science Society of America, 1997.
15. Alex and Jessie C. Black Award for excellence in research in the College of Agricultural Sciences, The Pennsylvania State University, 2000.
16. Institute of Scientific Information (ISI), Highly Cited Researcher, 2002.
17. The Marion L. and Christie M. Jackson Mid-Career Clay Scientist Award, The Clay Minerals Society, 2002
18. Admitted as a Fellow of the Royal Society of Chemistry, 2002.
19. Elected to the European Academy of Sciences, 2002.
20. 16th M. G. Bhagat Memorial Lecturer, Joint meeting of the 67<sup>th</sup> Indian Ceramic Society and International Ceramic Congress, 2004.
21. 22<sup>nd</sup> J. N. Mukherjee Foundation Lecturer, annual Meeting of the Indian Society of Soil Science, Hyderabad, India, 2004.
22. Elected to World Academy of Ceramics, 2004.
23. Gamma Sigma Delta Research Award, Penn State College of Agricultural Sciences Chapter, 2005
24. Soil Science Research Award, The Soil Science Society of America, 2005
25. Named "Distinguished Professor" at The Pennsylvania State University, 2006
26. David H. Hubbell Seminar speaker, Soil and Water Science Department, University of Florida, 2007
27. Appointed Guest Professor by China University of Petroleum for 5 years starting September 30, 2009.
28. Appointed Adjunct Professor of Civil and Environmental Engineering, Penn State, 2010.
29. Elected President of International solvothermal Hydrothermal Association for 2 years, July 2010.
30. Appointed as a Joint Editor-in-Chief, Materials Research Innovations, 2010.
31. "Career Award" of the Environment & Natural Resources Institute (ENRI), Penn State, 2011.
32. Distinguished Member Award, the highest honor of the Clay Minerals Society, 2011.

33. Environmental Quality Award of American Society of Agronomy, 2011.

## **RESEARCH INTERESTS**

Crystal chemistry of clays and zeolites and chemistry of hydrous metal oxides in relation to cation separations and purification, water sorption and desorption, nuclear and hazardous waste disposal, and kinetics and thermodynamics of cation exchange processes in minerals. Low temperature nanophase and nanocomposite materials, sol-gel chemistry of high-performance ceramics, hydrothermal and microwave-hydrothermal processing, and new materials preparation and characterization.

## **MEMBERSHIP IN SCIENTIFIC AND HONORARY SOCIETIES**

American Association for the Advancement of Science (Fellow)    Materials Research Society  
American Ceramic Society (Fellow)    Soil Science Society of America (Fellow)  
American Society of Agronomy (Fellow)    Sigma Xi  
Clay Minerals Society    Royal Society of Chemistry (Fellow)

## **EXPERIENCE**

Distinguished Professor of Clay Mineralogy. Department of Crop and Soil Sciences and the Materials Research Institute, The Pennsylvania State University, University Park, December 2006 to present.

Professor of Clay Mineralogy. Department of Crop and Soil Sciences and the Materials Research Institute, The Pennsylvania State University, University Park, November 1987 to 2006.

Co-Director, Consortium on Chemically Bonded Ceramics, Pennsylvania State University, 1996-1998.

Associate Professor of Clay Mineralogy, Pennsylvania State University, Univ. Park, April 1984 to October 1987.

Senior Research Associate, Pennsylvania State University, University Park, August 1981 to June 1987.

Research Associate. Pennsylvania State University, University Park, July 1978 to July 1981.

Project Associate. Pennsylvania State University, University Park, March 1976 to June 1978.

Project Associate. University of Wisconsin, Madison, December 1973 to January 1976.

Research Assistant. University of Wisconsin, Madison, September 1969 to November 1973.

**TOTAL NUMBER OF REFEREED PUBLICATIONS:** Over 535 including 5 in **Nature** and 3 in **Science**

**BOOKS WRITTEN—1**

**BOOKS EDITED — 10**

**SPECIAL ISSUES OF JOURNALS EDITED — 2**

**E-PROCEEDINGS EDITED — 3**

**JOURNAL OF POROUS MATERIALS—19** volumes edited thus far as Editor-in-Chief

**MATERIALS RESEARCH INNOVATIONS—2** volumes edited thus far as a Joint Editor-in-Chief

**TOTAL NUMBER OF PATENTS –10**

**TOTAL NUMBER OF ABSTRACTS PUBLISHED – Over 250**

**NONREFEREED ARTICLES, BULLETINS AND REPORTS – Over 120**

**TOTAL NUMBER OF INVITED PRESENTATIONS— Over 172** in twenty countries.

**TOTAL NUMBER OF VOLUNTEERED PRESENTATIONS—Over 300.**

**TOTAL AMOUNT OF FUNDING—\_Over \$18 million\_**

**TRAINING OF STUDENTS, VISITING SCIENTISTS AND POSTDOCS— Supervised a total of over 90** from all over the world.

**TOTAL CITATIONS AS OF July 23, 2013: 10133**

**KOMARNENI'S h-index = 52**