

Dr. Ravi Naidu

Chief Executive Officer & Managing Director, Cooperative Research Centre for Contamination Assessment and Remediation of the Environment (CRC CARE), Newcastle, Australia

**Dr. Ravi Naidu**

Dr. Ravi Naidu is an internationally recognised leader in soil science and the remediation of contamination. He is a pioneer and practitioner of the new approach to risk assessment and remediation adopted worldwide, and the driving force behind the creation of the Global Contamination and Remediation Enterprise (globalCARE) – an international scientific initiative to understand, measure and tackle contamination on a global scale. He has established two leading, multidisciplinary research centres with very strong links to industry. And led the development of new products and tools for the prevention, assessment and remediation of contaminated sites.

His expertise spans *in situ* remediation of soil and water contaminated with a wide range of hazardous pollutants. He has also provided independent expert reviews of contaminated site reports for EPA and major industrial organisations in Australia.

Dr. Naidu's research focuses on contaminated soil and water, and potential impacts of contaminants on human health. His vision is to expand his current research throughout Asia via collaboration and the development of a Centre of Excellence on environmental risk assessment and remediation in China, which will develop and market environmental technology worldwide. Through his globalCARE initiative, he aims to lead the development of new ways to curb escalating impact of chemical contamination on human health and the environment.

Dr. Naidu is a fellow of the:

- American Association for the Advancement of Science
- Soil Science Society of America
- New Zealand Society of Soil Science
- Agronomy Society of America

He is Joint Editor-in-Chief: Environmental Technology Innovations, Editor, Journal of Soils and Sediments and Editor, Environmental Geochemistry and Health.

Notable recent awards include:

- Honorary DSc (Honoris Causa) by Tamil Nadu University for "outstanding contributions to environmental science and agriculture
- Richard Pratt – Banksia CEO Award, Banksia Sustainability Awards
- Soil Science Society of America International Soil Science Award

Ph.D., Soil Chemistry, Massey University, New Zealand

M.S., Aberdeen, UK – University of the South Pacific, Fiji

BSc, Maths-Chemistry, University of the South Pacific, Fiji

Dr. Naidu has co-authored 460 refereed journal articles and 7 patents, and co-edited 11 books and 66 book chapters in the field of soil and environmental sciences.

1984: Boyd Ellis, Michigan State, Soil Chemistry

1985: Larry Wilding, Texas A&M, Soil Classification

1986: Fred Adams, Auburn, Soil Fertility/Chemistry

1987: Don Nielsen, UC Davis, Soil Physics

1988: Joe Ritchie, Michigan State, Soil Water Management

1989: Jim Tiedje, Michigan State, Soil Microbiology

1990: Terry Logan, Ohio State, Soil Water Chemistry

1991: John Mortvedt, TVA, Soil Chemistry

1992: Larry Murphy, PPI, Soil Fertility

1993: Peter Wierenga, Arizona, Soil Physics

1994: Al Page, UC Riverside, Soil Chemistry

1995: John Norman, Wisconsin, Environmental Biophysics

1996: Willard Lindsay, Colorado State, Soil Chemistry

1997: Peter Bottomley, Oregon State, Soil Microbiology

1998: Tom Sims, Delaware, Soil Chemistry

1999: Rufus Chaney, USDA-ARS, Environmental Chemistry

2000: Gyles Randall, Minnesota, Soil Fertility

2001: Kevin McSweeney, Wisconsin, Pedology

2002: Kate Scow, UC Davis, Soil Microbial Ecology

2003: Hugo Rogers, USDA-ARS, Plant Physiology

2004: Donald Sparks, Delaware, Soil Chemistry

2005: Ray Weil, Maryland, Soil Science

2006: Ed Gregorich, Canada, Soil Biochemistry

2007: Andrew Sharpley, Arkansas, Soil Chemistry

2008: David Kissel, Georgia, Soil Fertility

2009: Paul Bertsch, Kentucky, Environmental Chemistry

2010: David Laird, USDA-ARS, Soil-Environmental Quality

2011: Sally Brown, Washington, Soil Remediation

2012: Henry Janzen, Canada Soil Biochemistry

2013: Mike McLaughlin, CSIRO Environmental Biogeochemistry

2014: Susan Brantley, Penn. State Univ. Geosci./Env. Systems

2015: Douglas Karlen, USDA-ARS, Soil-Environmental Quality

2015: Ravi Naidu, CRC-CARE, Soil Chemistry/ Env. Remediation

Roscoe Ellis, Jr.

Roscoe Ellis began a career of contributions to science and society at Kansas State University as an instructor in 1949. After completing his Ph.D. degree at the University of Wisconsin in 1954, he resumed teaching and research responsibilities in the Department of Agronomy at Kansas State University. His career was marked by numerous scientific achievements up to his untimely death in 1982.

Roscoe became a highly respected soil chemist through his research in clay mineralogy, soil phosphorus and micronutrient chemistry. He researched the quantification of clay minerals in mixtures and greatly expanded knowledge on the mineralogy and chemistry of Kansas soils. His studies on the interaction of phosphorus and zinc chemistry in soils advanced theoretical horizons and provided practical implications for fertilizer management on Kansas farms.

Dr. Ellis's characterization of zinc levels in Kansas soils led to the development of a zinc soil test procedure. That test was used to determine when responsive additions of zinc fertilizer could be recommended.

Dr. Ellis advanced the frontiers of knowledge in soil phosphorus chemistry through a variety of research studies. Perhaps his most significant work investigated the complexity of polyphosphate reactions in soils and their conversion to the plant available orthophosphate form. These studies advanced both the theoretical aspects of polyphosphate chemistry and the adaptation of polyphosphate use in crop production.

Dr. Ellis was highly sought after to partnership in studies involving soil chemistry. His cooperative studies with the USDA on soil and environmental factors causing magnesium deficiency in cattle (grass tetany) led to a better understanding of this significant problem.

Dr. Ellis mentored 32 graduate students and their efforts resulted in 45 scientific publications. He served his profession as Associate Editor of both the Agronomy Journal and Soil Science Society of America Journal, Soil Chemistry Program Chairman in 1962 for the Soil Science Society of America, and in 1979 he was named Editor-in-Chief of the Soil Science Society of America Journal.

Dr. Ellis's career as a preeminent teacher, researcher and person provided an excellent example for all. He was recognized with memberships in the honor societies of Phi Kappa Phi, Sigma Xi, Gamma Sigma Delta, and Pi Mu Epsilon and as a Fellow of both the Soil Science Society of America and American Society of Agronomy.

Roscoe Ellis, Jr. Lectureship



Roscoe Ellis, Jr.

The Roscoe Ellis, Jr. Lectureship was established to advance soil science at Kansas State University by attracting prominent scholars to interact with students and faculty.

The lectures honor the career of Dr. Ellis and commemorate his many years of outstanding service to his students, Kansas State University, and the soil science community. His dedication, knowledge and helpfulness influenced many in their educational and scientific pursuits.

Donations by family, friends, and associates of Dr. Ellis in excess of \$10,000 endowed the Lectureship Fund with the Kansas State University Foundation. Income from this endowment supports expenses associated with providing this annual lectureship, but additional support is needed.

Please consider enhancing this fund so future soil scientists can continue benefiting from this lectureship. Your contributions and inquiries are encouraged and may be sent to:

Roscoe Ellis Lectureship
Department of Agronomy
2004 Throckmorton Hall
Kansas State University
Manhattan, KS 66506

Thirty-third
Annual

Roscoe Ellis, Jr. Lectureship in SOIL SCIENCE

**“Soil: The Critical Zone
for Sustainability”**

By Dr. Ravi Naidu

**Chief Executive Office &
Managing Director
Cooperative Research Centre
for Contamination Assessment
and Remediation of the
Environment (CRC CARE)
Newcastle, Australia**

**4:00 p.m. Wednesday,
September 30, 2015**

**1018 Throckmorton Hall
Kansas State University
Manhattan, KS**

Refreshments @3:30 p.m. in TH Lobby