

Contact: Diana Gonzalez

**PRESENTATION AT IOWA STATE UNIVERSITY:  
“ISU FACULTY ELECTED TO NATIONAL ACADEMY OF MEDICINE”**

**Action Requested:** Receive the presentation.

**Executive Summary:** **Alicia Carriquiry**, President’s Chair and Distinguished Professor of Statistics; and **James Roth**, President’s Chair and Clarence Hartley Covault Distinguished Professor of Veterinary Microbiology and Preventive Medicine were elected to the National Academy of Medicine in 2016. Each will provide a brief presentation regarding their research and its importance to the state and nation. Provost Jonathan Wickert will introduce the faculty.

**Alicia Carriquiry**

Alicia Carriquiry’s work has advanced the understanding of nutrition and dietary assessment, Veterans’ mental health issues, and modern forensics. She currently directs the National Institute of Standards and Technology Forensic Science Center of Excellence (CSAFE) at Iowa State University and also leads an ongoing effort by the National Academy of Medicine to evaluate the effectiveness of Veterans Affairs mental health services. Carriquiry holds a bachelor’s degree from the Universidad de la República in Uruguay, a master’s degree from the University of Illinois at Urbana-Champaign, and a Ph.D. from ISU. She joined the Department of Statistics faculty in 1990.



Dr. Carriquiry has worked with various government and health agencies around the world to improve health and nutrition. Nutrient and food consumption data are collected over a period of a few days. Since our diet varies daily, it is challenging for statisticians to develop models that can make long-term health recommendations. Carriquiry says finding ways to overcome those statistical challenges is important for creating effective policy and programs. As director of CSAFE, Carriquiry is leading a multi-institutional effort to develop and evaluate the statistical foundation of forensic tools used to interpret pattern and cyber evidence, and train law enforcement and criminal justice professionals in the in the application of these tools.

**James Roth**

James Roth has devoted much of his career to studying the immunology of infectious diseases of livestock, and to the management of foreign animal disease outbreaks. He currently serves as director of Iowa State’s Center for Food Security and Public Health, and as executive director of the Institute for International Cooperation in Animal Biologics. A native of Hartwick, Iowa, Roth holds a doctorate of veterinary medicine and a Ph.D. in veterinary microbiology, both from ISU; he spent two years in private practice before joining the College of Veterinary Medicine faculty in 1977.



Following 9/11, Dr. Roth established the Center for Food Security and Public Health to develop strategies dealing with the potential of agro-terrorism and other threats to livestock production and the U.S. food supply. Since then, the Center’s mission has evolved more to responding to exotic and foreign diseases. The Center has played an instrumental role in working with USDA, state animal health officials and industry to revise plans on how to deal with devastating animal disease outbreaks through development of secure food supply plans.