香港中文大學
The Chinese University of Hong Kong

IEES
Institute of Environment, Energy and Sustainability, CUHK

EARTH SYSTEM SCIENCE PROGRAMME

Nitrogen, Ozone and Water: Key Factors Impacting Sustainable Intensification of Crop Production

Date: 1 November 2016 (Tuesday)
Time: 11:00am - 12:15pm
Venue: Conference Room, 3/F, Mong Man Wai Building, The Chinese University of Hong Kong

Speaker:

Professor Denise L. Mauzerall (Princeton University)
Professor of Environmental Engineering and International Affairs
Woodrow Wilson School of Public and International Affairs and Department of Civil and Environmental Engineering
Princeton University

Abstract:
As global population and associated food demand increases, a key objective is to sustainably increase crop production on existing agricultural land. I will discuss three areas of our recent research that address questions associated with this goal. 1) How can we increase nitrogen use efficiency in crop production and decrease surplus nitrogen and its associated environmental impacts? 2) How large is the impact of surface ozone air pollution on crop yields and how much can future improvements in air quality and development of ozone resistant crop cultivars increase yields? 3) How can agricultural trade be adjusted in ways which reduce water demand without impacting food security?

~All are Welcome~

For any enquiry, please contact Ms. Connie Wong at iees@cuhk.edu.hk .