

# 傑出華人科學家公開講座

## — 中國地區的氣候變化

Distinguished Chinese Scientist Public Talk  
- Climate Change in the China Region



講者：劉雅章教授

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Lecturer : **Professor Lau Ngar-cheung**

- ★ Professor, Princeton University
- ★ Lead Scientist, Geophysical Fluid Dynamics Laboratory (GFDL), USA

日期：二零一零年一月九日(星期六)  
Date : 9.1.2010 (Saturday)

時間：下午二時三十分至三時三十分  
Time : 2:30 pm - 3:30 pm

地點：香港科學館一樓演講室  
Venue : Lecture Hall, 1/F, Hong Kong Science Museum

免費入場 Free Admission

合辦機構 Co-Presenters



支持機構 Supporting Organisation



## 中國地區的氣候變化

本講座由傑出氣候科學家劉雅章教授主講。劉教授在香港出生及接受教育，及後負笈美國進修及工作。劉教授會回顧與人類活動有關的氣候變化的科學基礎，尤其是人類排放溫室氣體及氣溶膠對氣候的影響。他亦會講解過去數十年全球各地氣候變化的觀測證據。

講座會介紹如何利用電腦氣候預報模式來了解及預測未來氣候變化，並簡述各氣候預報模式對 21 世紀世界各地及東亞地區，包括中國地區的氣候變化預測，亦會介紹聯合國政府間氣候變化專門委員會在推動、協調及綜合各國對過去及未來氣候變化研究的角色和工作。講座最後討論氣候變化對農業、水資源、自然災害出現頻率及生態系統等的影響。

劉雅章教授是美國國家海洋大氣管理局地球物理流體動力學實驗室首席科學家，亦是普林斯頓大學教授。他在 1990 年獲美國氣象學會 Clarence Leroy Meisinger 獎及在 1991 年獲美國商務部非凡傑出表現獎。

## Climate Change in the China Region

The talk will be delivered by Professor Lau Ngar-cheung, an outstanding climate scientist born, raised and educated in Hong Kong before furthering his studies and career in the United States. Professor Lau will provide a review on the scientific basis of climate change linked to human activities. Specific emphasis will be placed on the consequences of human emission of greenhouse gases and aerosols. Observational evidence of global and regional climate changes in recent decades will be described.

The use of computer climate models for understanding and predicting future climate changes will be introduced. Model projections of climate change in the course of the 21st century will then be presented with special focus on the East Asian sector, including the China region. The role of the United Nations Intergovernmental Panel on Climate Change in promoting, coordinating and synthesizing international research efforts on past and future climate variations will be highlighted. The impacts of climate change on agriculture, water availability, incidence of natural disasters and different ecosystems, etc., will also be discussed.

Professor Lau Ngar-cheung is a lead scientist of the Geophysical Fluid Dynamics Laboratory (GFDL) of the U.S. National Oceanic and Atmospheric Administration (NOAA) and a Professor at Princeton University. He is a recipient of the Clarence Leroy Meisinger Award of the American Meteorological Society (AMS, 1990) and the Unusually Outstanding Performance Award of the U.S. Department of Commerce (1991).