WRF and WRF-Chem 研讨会

概述

天气和空气质量与诸多环境问题的关系密不可分，在这些领域 WRF 和 WRF－CHEM 是最先进的、最频繁应用的数值模式。但是在实际应用过程中,如何正确地理解、运用 WRF 和 WRF－CHEM 模式进行预测预报天气状况和空气质量是预报员及相关工作人员最关注的问题。广东省气象局和香港科技大学将联合举办 WRF 和 WRF－CHEM 研讨会和培训，届时将由来自美国国家大气研究中心的专家授课。

研讨会将在 12 月 7-10 日于广州市香港科大霍英东研究院举行。

研讨会的讲演者如下:

自美国国家大气研究中心的Michael Duda、Jimy Dudhia、Georg Grell、Dave Gill、Joe Klemp Bill Skamarock、Wei Wang 、Kelly Werner, 和香港科技大学的Jimmy Fung、Alexis Lau。

研讨会包括如下两个部分：

WRF 模型

2015 年 12 月 7-9 日，2.5 天

这部分介绍 WRF 的原理和各个组成模块，包括：

- ✓ WRF 的预处理程序 WPS
- ✓ WRF 的动力机制和数值计算
- ✓ WRF 的物理机制
- ✓ 编译于运行
- ✓ 数值同化
- ✓ 模式结果的后处理程序 (模拟结果评估)
- ✓ WRF 结果的可视化程序
- ✓ 上机实习

WRF-Chem 模型

2015 年 12 月 9-10 日，1 天

- ✓ 详细介绍 WRF－CHEM 模式的原理于组成
- ✓ 如何生成污染源文件
- ✓ 模式本地化时的几点建议

学员要求

具有一定的大气科学和数值模拟知识背景，并初步了解 UNIX 计算机应用环境。

注册与付款方法：

网页在线注册，请登录: http://www.envr.ust.hk/wrfm/

研讨会的注册费用（包括材料费和4天的午餐）:

(a) 2015年11月15日前（包括15日）付款，每人4,000人民币(5,000港币)
(b) 2015年11月15日前（包括15日）付款，每名学生3,500人民币(4,375港币)
(c) 2015年11月之后付款，每人5,000人民币 (HK$6,250)。

注：2015年11月25日之后不予退注册费。

注册费用包括：培训材料、4天的午餐与茶歇，以及培训后颁发培训证书。

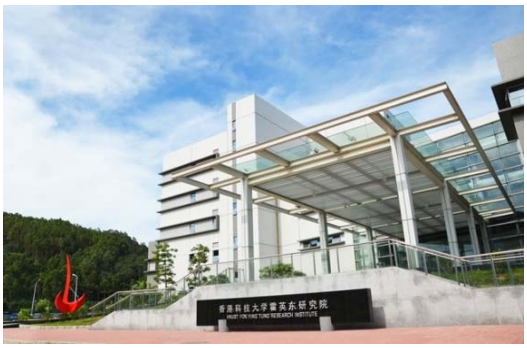
付款方法详见 ：http://www.envr.ust.hk/wrfm/

为保证每位学员的培训质量得到保证，我们只招收60名学员。鉴于名额有限，注册按照先到先得的原则。

如有任何问题，欢迎发邮件至：wrf2015@ust.hk.

联合主办:

香港科技大学环境学部
香港科技大学环境研究所
中国气象局广州热带海洋气象研究所
中国气象局广东省区域数值天气预报重点实验室
美国国家大气研究中心



WRF and WRF-Chem Workshop & Tutorial

Overview

Weather and Air quality are major drivers of environmental issues in Asia, and the Weather Research and Forecasting (WRF) model and WRF-Chem are the leading numerical model in these fields. Hence, the Guangdong Meteorological Bureau and the Hong Kong University of Science and Technology (HKUST) is pleased to announce a joint workshop and tutorial on the WRF and WRF-Chem modeling systems with scientists from the US National Center for Atmospheric Research (NCAR).

The workshop will be held during **December 7 - 10, 2015** at the **HKUST Fok Ying Tung Graduate School campus**, Nansha, Guangzhou.

Speakers in the WRF/WRF-Chem Workshop are:

Michael Duda, Jimy Dudhia, Georg Grell, Dave Gill, Joe Klemp, Bill Skamarock, Wei Wang and Kelly Werner from NCAR, Jimmy Fung and Alexis Lau from HKUST.

The workshop will be divided into two sessions.

WRF Model (Session 1)

Dec 7 – 9, 2015, 2.5 days

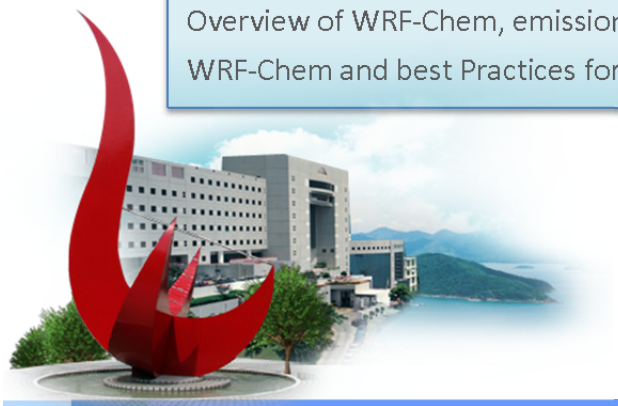
The tutorial will consist of lectures on various components of the WRF modeling system for the Advanced Research WRF (WRF-ARW) along with hands-on practice sessions. The topics include:

- ✓ WRF Pre-processing system (WPS)
- ✓ WRF dynamics and numeric
- ✓ WRF physics
- ✓ Compiling and running components of the modeling system
- ✓ Data assimilation (FDDA)
- ✓ Post-processing tools (model evaluation)
- ✓ WRF Software
- ✓ Hands-on practice

WRF-Chem (Session 2)

Dec 9-10, 2015, 1 day

Overview of WRF-Chem, emission data tools for use with WRF-Chem and best Practices for applying WRF-Chem



Requirements

Basic knowledge of atmospheric science and numerical modeling, as well as working in a Unix computer environment, is generally required for the workshop. All participants are strongly encouraged to work through one or more of the online tutorials for **WRF-ARW**, depending on your interest, prior to attending the tutorial / workshop.

Registration & Payment Method

For online registration, please visit: http://www.envr.ust.hk/wrfm/

The registration fees for the WRF workshop:

(d) RMB 4,000 (HKD 5,000) for early-bird (paid in full by Nov 15, 2015)
(e) RMB 3,500 (HKD 4,375) for students (paid in full by Nov 15, 2015)
(f) RMB 5,000 (HK$6,250) paid in full after Nov 15, 2015

There will be no refunds for cancellations made after Nov 25, 2015. The registration fees includes: certificate of participation, workshop training material, lunches, coffee breaks and a workshop dinner.

Payment Method : http://www.envr.ust.hk/wrfm/

After the seats have been filled, a wait list will be established and the status will remain as ***pending*** until a seat becomes available.

Due to the constraints of physical space and computers, we can only accommodate a maximum of 60 participants for the WRF workshop.

Co-organized by:

Division of Environment, HKUST

Institute for the Environment, HKUST

Institute of Tropical and Marine Meteorology, CMA

Key Laboratory of Regional Numerical Weather Prediction, CMA

US National Center for Atmospheric Research (NCAR)