The 13th International Workshop on the Frontiers of Computational Geodynamics & the Annual Meeting of the CAS/CAFEA Creative Research Team 2016 Agenda

第 13 届计算地球动力学前沿问题国际研讨会暨中国科学院、国家外专局创新团队 2016 年年会会议日程

(July 3-4, 2016, Conference Room, Key Laboratory of Computational Geodynamics, CAS, UCAS Yuquanlu Campus, Beijing)
(2016 年 7 月 3 至 4 日，中国科学院大学玉泉路校区，中科院计算地球动力学重点实验室会议室，科研楼 1 层)

Day-1: July 3,（Sunday）

09:00 - 09:05: Introduction

09:00 - 09:02: Dr. Yaolin SHI, Key Laboratory of Computational Geodynamics, Chinese Academy of Sciences, "Welcome Speech"

09:02 - 09:05: Dr. Mian LIU, Key Laboratory of Computational Geodynamics, Chinese Academy of Sciences, "Introductory Remarks"

Session 1: Chair: Dr. Mian LIU

09:05 - 09:25: Dr. Christophe VIGNY, *Ecole Normale Supérieure, France,* "Post-seismic deformation inflicted by giant subduction earthquakes: 3D-FEM analysis and consequences"

09:25 - 09:45: Dr. Yaolin SHI, *University of Chinese Academy of Sciences, China*, "Computation of global effects of giant earthquakes in a heterogeneous ellipsoid earth"

09:45 - 10:05: Dr. Zhigang PENG, *Georgia Institute of Technology, USA,* "Microearthquake detection: matched filter technique and recent development"

10:05 - 10:25: Dr. Zhenming WANG, *Kentucky Geological Survey & University of Kentucky, USA*, "Earthquake scenario ground motion simulation and application"

10:25 - 10:50 Photo Taking (Main Entrance of the Key Laboratory of Computational Geodynamics, UCAS) & Tea Break

Session 2: Chair: Dr. Zhonghai LI

10:50 - 11:10: Dr. Chi-Yuen WANG, *University of California, Berkeley, USA,* "Testing models of geyser eruption with down-vent data"

11:10 - 11:30: Dr. David A. YUEN, *University of Minnesota, USA,* "The impact of spin transition of iron on lower-mantle convection"

11:30 - 11:50: Dr. Dongxiao WANG, *South China Sea Institute of Oceanology, Chinese Academy of Sciences, China,* "Large-eddy simulation and its implementation in the ocean modelling"

11:50 - 12:10: Dr. Xuebin CHI, *Computer Network Information Center, Chinese Academy of Sciences, China,* "Building a High Performance Computing Environment for Future: China National Grid"

12:10 - 14:00 Lunch (Buffet, Second Floor, UCAS Canteen)

Session 3: Chair: Dr. Gang LUO

14:00 - 14:20: Dr. Wenke SUN, *University of Chinese Academy of Sciences, China*, "What can far-field GPS displacements do in fault-slip inversion"

14:20 - 14:40: Dr. Yong'en CAI, *Peking University, China,* "Seismogenic stress field in the subduction zones: Implications from the giant earthquake in Northeastern Japan"

14:40 - 15:00: Dr. Genyang TANG, *China University of Petroleum (Beijing), China,* "Seismic structure of Sumatra subduction zone:

implications on rupture segmentation”

15:00 - 15:20: Dr. Maarten V. de HOOP, *Rice University, USA,* “On the spectral inverse problem of a spherically symmetric Earth, and the computation of normal modes”

15:20 - 15:50 Tea Break

Session 4: Chair: Dr. Wenke SUN

15:50 - 16:10: Dr. Xuzhang SHEN, *Lanzhou Institute of Seismology, China Earthquake Administration, China,* “Lithospheric structure across the northeastern margin of the Tibetan Plateau: Implications for the plateau's lateral growth”

16:10 - 16:30: Dr. Xiaoyu GUO, *Institute of Geology, Chinese Academy of Geological Sciences, China,* “Lithospheric architecture and deformation of NE Tibet: new insights on the interplay of regional tectonic processes”

16:30 - 16:50: Dr. Youcai TANG, *China University of Petroleum (Beijing), China,* “Crustal structures of Ordos Block and implication for northeast extrusion of Tibetan Plateau”

16:50 - 17:10: Dr. Pengpeng HUANGFU, *University of Chinese Academy of Sciences, China*, “Dynamics of continental underthrusting: Implications for the India-Asia collision”

17:10 - 17:30: Chuang SUN, *Nanjing University, China,* “Sandbox modeling of evolving thrust wedges with different pre-existing topographic relief: implications for the Longmen Shan thrust belt, eastern Tibet”

17:30 – 18:30 Dinner (Guesthouse, Institute of High Energy Physics, CAS)

Day-2: July 4,（Monday）

Session 5: Chair: Dr. Chi-Yuen WANG

09:00 - 09:20: Dr. Yann CAPDEVILLE, *University of Nantes, France,* "Non-periodic homogenization for seismic forward and inverse problems"

09:20 - 09:40: Dr. Gabriele CAMBIOTTI, *University of Milan, Italy,* "Joint estimate of the rupture area and slip distribution of the 2009 L'Aquila earthquake by a Bayesian inversion of GPS data"

09:40 - 10:00: Dr. Mian LIU, *Missouri University, USA,* "Space geodesy and timescale-dependent tectonics"

10:00 – 10:30 Tea Break

Session 6: Chair: Dr. Tao SUN

10:30 - 10:50: Lin HAN, *University of Chinese Academy of Sciences, China*, "The Elasticity and Seismic Anisotropy of Mg-Pyroxene under high pressures from First-principles"

10:50 - 11:10: Dr. Yves-Marie LEROY, *Ecole Normale Supérieure, France,* "Predicting fluid overpressures with Limit Analysis: application to the Niger Delta"

11:10 - 11:30: Dr. Yujun SUN, *Institute of Geomechanics, Chinese Academy of Geological Sciences, China,* "Dynamics of the Tengchong volcanic region in the southeastern Tibetan plateau: A numerical study"

11:30 - 11:50: Caiyun CHEN, *University of Chinese Academy of Sciences, China*, "Theoretical calculations of stable isotope fractionation for Cd complexes"

11:50 - 12:45 Lunch (Second Floor, UCAS Canteen)

Total 24 oral presentations