

Advanced development on in situ and bulk high-precision elemental and isotopic analyses

2F Lecture Hall, IES, Academia Sinica, Taipei

Program

March 11, 2014

8:00-8:30	Registration
8:30-9:00	Opening ceremony: address by Director of IES, Academician Lou-Chuang Lee
	<i>Thematic Sessions I-1: Development of laser analytical techniques (Host: Sun-Lin Chung)</i>
9:00-9:30	Prof. Norman Pearson (GEMOC/CCFS, Macquarie Univ., Sydney) <i>Back to basics: quantitative elemental and isotope ratio analysis by laser ablation ICP-MS (Keynote)</i>
9:30-10:00	Prof. Takafumi Hirata (Dept. of Geology and Mineralogy, Kyoto University, Kyoto) <i>New generation Laser ablation-ICPMS technique for age cytometry (Keynote)</i>
10:00-10:30	Prof. Jin-Hui Yang (IGG, Chinese Academy of Sciences, Beijing) <i>In-situ U-Pb dating and Sr-Nd isotopic analysis of accessory minerals (Invited)</i>
10:30-11:00	Coffee break
	<i>Thematic Sessions I-2: Development of laser analytical techniques (Host: Der-Chuen Lee)</i>
11:00-11:30	Prof. Xian-Hua Li (IGG, Chinese Academy of Sciences, Beijing) <i>Towards higher precision SIMS U-Pb geochronology (Keynote)</i>
11:30-12:00	Prof. Zhaochu Hu (Dept. Geochemistry, China University of Geosciences, Wuhan) <i>Comparison Study of Elemental fractionation on ns- and fs-laser probe system (Invited)</i>
12:00-13:00	Lunch break
	<i>Thematic Sessions I-3: Development of laser analytical techniques (Host: Mei-Fei Chu)</i>
13:00-13:30	Dr. Justin Payne (School of Earth and Environ. Sci., The Univ. of Adelaide, Adelaide) <i>Reassessment of relative oxide formation rates and molecular interferences on in-situ Lutetium-Hafnium analysis with Laser Ablation MC-ICP-MS (Invited)</i>
13:30-14:00	Dr. Satoki Okabayashi (Dept. of Geology and Mineralogy, Kyoto University, Kyoto) <i>New direction of stable isotope geochemistry using MC-ICPMS: development of LAL sampling and ETV sample introduction technique (Invited)</i>
14:00-14:30	Mr. Shuhei Sakata (Dept. of Geology and Mineralogy, Kyoto University, Kyoto) <i>Precise age determination of Quaternary zircons (<0.1Ma) using U-Th-Pb Isotope Systematics (Invited)</i>
14:30-15:00	Coffee break
	<i>Thematic Sessions II. Development of WR analytical techniques (Host: Kuo-Lung Wang)</i>
15:00-15:30	Prof. Qingzhu Yin (Dept. Earth and Planet. Sci., University of California, Davis) <i>Applications of high precision MC-ICP-MS and TIMS in Cosmochemistry (Keynote)</i>
15:30-16:00	Prof. Chen-Feng You (Dept. Earth Sci., Natl. Cheng-Kung Univ., Tainan) <i>Precise determination of B isotopic compositions in low concentration samples using MC-ICPMS (Keynote)</i>
16:00-16:30	Prof. Chuan-Chou River Shen (Dept. Geosciences, Natl. Taiwan Univ., Taipei) <i>A new generation of U-Th dating techniques (Invited)</i>
16:30-17:00	Prof. Mei-Fei Chu (Inst. Oceanography, Natl. Taiwan Univ., Taipei) <i>Lithium isotopic compositions in mafic and ultramafic rocks revisited: An improved methodology using MC-ICP-MS (Invited)</i>
17:00-17:30	Dr. Kuo-Fang Denner Huang (IES, Academia Sinica, Taipei) <i>High-precision and accurate determinations of Nd isotopic compositions at nanogram levels by MC-ICP-MS: Applications of Marine Isotope Geochemistry and Paleoceanography (Invited)</i>
	<i>Poster Sessions</i>
17:30-18:30	Dr. Yung-Hsin Liu (IES, Academia Sinica, Taipei) <i>Variable magma components and evolution regimes of high-Mg basaltic andesites and associated volcanic rocks from Lutao (N. Luzon arc): evidence from phenocryst textures and zoning patterns</i>
	Prof. Shinjo Ryuichi (Dept. Physics & Earth Sci., University of the Ryukyus, Okinawa) <i>Development of simple method for boron separation from geological samples for isotopic analysis using MC-ICP-MS</i>
