**Parallel Session: Science & Technology A1**

Date: December 19th (Thursday)

Room: 潘貫講堂 in the Department of Chemistry

Chair: Prof. OHGAKI, Hideaki & Prof. HSIEH, Chih-hao

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| **Time** | **Sub-Session: Geoscience** |
| 13:30 – 13:55 | Prof. KAGIYAMA, Tsuneomi (Institute for Geothermal Sciences)  *Risk on geothermal activity dominant volcanoes and mitigation of volcanic hazard* |
| 13:55 – 14:20 | Prof. YANG, Tsanyao Frank (Department of Geosciences)  *Multi-monitoring on the potential magma activity in Tatun Volcano Group* |
| 14:20 – 14:45 | Prof. HU, Jyr-Ching (Department of Geosciences)  *Monitoring of Active crustal deformation of Taiwan orogeny by SAR interferometry and geodetic measurements* |
| 14:45 – 15:10 | Prof. TAKEMURA, Keiji (Institute for Geothermal Sciences)  *Active tectonics in central Kyushu, Japan* |
| 15:10 – 15:35 | Prof. SONG, Sheng-Rong (Department of Geosciences)  *Revisit the Chingshui geothermal field of Taiwan* |
| 15:35 – 16:00 | Prof. WEI, Kuo-Yen (Department of Geosciences)  *A chaotic record of volcaniclastic turbidites off eastern slope of Lu-Dao (Green Island) off eastern Taiwan: Implications for paleoseismology* |
| 16:00 – 17:00 | *Poster Session* (Open space outside of潘貫講堂. Poster size: 87CM x 117CM. Posters can be put on around noon on Dec 19, and should be removed on Dec 20 after the conference)  Coffee break is next to the poster space  *KU side:*  *1. Shinji Ohsawa, Hsiao-Fen Lee, Biqing Liang, Shogo Komori, Chang-Hwa Chen and Tsuneomi Kagiyama: Origins of acid hot spring waters in Tatun Volcanic Group, Taiwan, as inferred from δ34S in sulfate*  *2. Mitsuru Utsugi: Repeated resistivity monitoring using ACTIVE observation system on Nakadake crater, Aso volcano, Japan*  *3. Akihiko Yokoo: Processes of outburst of Vulcanian eruption - Showa crater of Sakurajima*  *volcano, Japan*  *NTU side:*  *1. Monika Walia et al.: Late Paleozoic and early Mesozoic evolution of SE China: a record in the Palawan Continental Terrane, Philippines*  *2. Yi-Ting Liao: Study of continental crust deformation in eastern Turkish-Armenian plateau and surrounding regions by GPS and InSAR*  *3. Zhe Su: Neotectonic activities and hazard assessment for the Armenian Nuclear Power Plant (ANPP) in Armenia: New ground monitoring data from the ENVISAT/ASAR (2003-2009)*  *4. Pei-Ling Wang: Heterogeneous rupture in the great Cascadia earthquake of 1700 inferred from coastal subsidence estimates*  *5. Chih-Yen Chen: Rainfall and groundwater effects on borehole strainmeter*  *6. Chao-Lung Tang: The transportation and deposition of the 2009 Hsiaolin landslide in Taiwan revealed from 3D granular discrete element simulation*  *7. Yu-Chung Hsieh: Assessment and survey of potential catastrophic landslides by using geomorphometric analysis from LiDAR-derived DEM*  *8. Kuan-Chuan Lin: Active deformation in Taipei area revealed by PS-InSAR and geodetic measurements*  *9. Hsin Tung: Surface deformation analysis of active faults revealed by PSInSAR and geodetic data in southern part of the Longitudinal Valley, Eastern Taiwan*  *10. Hsiaofen Lee et al.: Temporal variation of compositions of volcanic gas and hot springs in the Tatun Volcano Group, Taiwan*  *11. Shogo Komori: Resistivity structure around Chishinshan volcano area in Tatun Volcano Group, northern Taiwan: Its relation to the hydrothermal system*  *12. Ching-Chou Fu et al.: Continuous Monitoring of Soil Gas Geochemistry for Seismic Precursory Study in Taiwan*  *13. Yi-Chia Lu et al.: The Occurrences and Implications of Veins and Scaling in the Chingshui Geothermal Field* |

**Parallel Session: Science & Technology A2**

**D**ate: December 20th (Friday)

Room: 潘貫講堂 in the Department of Chemistry

Chair: Prof. OHGAKI, Hideaki & Prof. HSIEH, Chih-hao

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| **Time** | **Sub-Session: Energy and Applied Mathematics** |
| 09:00 – 09:30 | Prof. OHGAKI, Hideaki (Institute of Advanced Energy)  *Energy Situation in Japan –after FUKUSHIMA (tentative)* |
| 09:30 –10:00 | Prof. CHEN, Cheng-Liang (Department of Chemical Engineering) and Prof. CHEN, Falin (Institute of Applied Mechanics)  *Energy Issues of Taiwan* |
| 10:00 – 10:30 | Prof. YOKOMINE, Takehiko (Graduate School of Engineering)  *Geothermal Project in Japan* |
| 10:30 – 11:00 | Coffee Break |
| 11:00 - 11:30 | Prof. YANG, Tsanyao Frank (Department of Geosciences)  *Introduction to the Geothermal Energy and Hydrate Master Projects of Energy National Science and Technology Program of Taiwan* |
| 11:30 – 12:00 | Prof. UMENO, Ken (Graduate School of Informatics)  *Chaos Approach for Smart Information-Energy Integrated Networks: Theory and Sakishima Project in Japan* |

**Parallel Session: Science & Technology B1**

Date: December 19th (Thursday)

Room: 松柏講堂 in the Department of Chemistry

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| **Theme** | **Material Synthesis and Microscopy (Chair: Prof. TOKITOH, N.)** |
| 13:40~14:00 | Opening Remarks: KU (Prof. Tokitoh); NTU (Dr. L. C. Chen) |
| 14:00~14:25 | Prof. KURATA, Hiroki (Institute of Chemical Research, KU)  *Interface structures of oxide thin films* |
| 14:25~14:50 | Prof. LIU, Ru-Shi (Department of Chemistry, NTU)  *Light Conversion to Light Materials: Phosphors for LEDs* |
| 14:50~15:15 | Prof. SHIMAKAWA, Yuichi (Institute of Chemical Research, KU)  *Synthesis of new functional oxide materials* |
| 15:15~15:40 | Dr. CHU, Ming-Wen (Center for Condensed Matter Sciences, NTU)  *Atomic-Scale Observation of Electronic Reconstruction at Oxide Interfaces* |
| 15:40~16:10 | Coffee Break |
|  | **Organic Chemistry (Chair: Dr. CHU, M.-W.)** |
| 16:10~16:35 | Prof. TOKITOH, Norihiro (Institute of Chemical Research, KU)  *Recent Progress in Organoelement Chemistry* |
| 16:35~17:00 | Prof. LIU, Shiuh-Tzung (Department of Chemistry, NTU)  *Ligand effect on transition metal catalyzed reactions* |

**Parallel Session: Science & Technology B2**

**D**ate: December 20th (Friday)

Room: 松柏講堂 in the Department of Chemistry

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| **Theme** | **Organic Chemistry and Applications (Chair: Prof. TOKITOH, N.)** |
| 09:00~09:25 | Prof. PENG, Shie-Ming (Department of Chemistry, NTU; Vice President, Academia Sinica)  *The Road to Molecular Metal Wires: The Past and Recent Advances of Metal String Complexes* |
| 09:25~09:50 | Prof. OZAWA, Fumiyuki (Institute of Chemical Research, KU)  *Catalytic Direct Arylation Polymerization: Scope and Mechanism* |
| 09:50~10:15 | Prof. CHEN, Chun-Wei (Department of Materials Science and Engineering, NTU)  *Nanomaterials for Organic Photovoltaics* |
| 10:15~10:40 | Prof. YAMAGO, Shigeru (Institute of Chemical Research, KU)  *Recent Advances in Organotellurium-Mediated Living Radical Polymerization* |
| 10:40~11:10 | Coffee Break |
| **Theme** | **Solid-State Chemistry (Chair: Dr. Chu, M.-W.)** |
| 11:10~11:35 | Dr. CHOU, Fang-Cheng (Center for Condensed Matter Sciences, NTU)  *Real vs. reciprocal space view of graphene and topological insulators* |
| 11:35~12:00 | Dr. CHEN, Wei-Tin (Center for Condensed Matter Sciences, NTU)  *Science with extreme conditions: Novel materials with high pressure synthesis* |