

**2012 Joint Seminar and Research Camp between PKNU and NU
with CYCU, NSYSU, NCKU, NCUE, NTNU from Taiwan
平成 23 年度釜慶大学校・新潟大学ジョイントセミナー・リサーチキャンプ**

韓国釜慶大学校自然科学部と新潟大学理学部及び自然科学研究科の部局間国際交流協定に基づき、ジョイントセミナー・リサーチキャンプを催しますので、ご案内申し上げます。今回は、釜慶大学校の教員 6 名、大学院生 16 名の他、台湾からの参加者 12 名もいます。

代表者（理学部長） 谷本 盛光 (Tanimoto, Morimitsu)
世話人（国際交流委員長） 工藤 久昭 (Kudo, Hisaaki)
田中 環 (Tanaka, Tamaki)

記

Date (期間): Febuary 16(Thu)–17(Fri), 2012 平成 24 年 2 月 16 日(木)・17 日(金)
Place (場所): Faculty of Science Building and Material and Industrial Science Building in Niigata University (新潟大学理学部棟及び物質生産棟)
Sponsors: Japan Student Service Organization (JASSO),
Faculty of Science of Niigata University (NU) and
College of Natural Sciences of Pukyong National University (PKNU)
Partner Universities: Pukyong National University (PKNU) (国立釜慶大学校),
Chung Yuan Christian University (CYCU) (中原大学),
National Changhua University of Education (NCUE) (国立彰化師範大学),
National Cheng Kung University (NCKU) (国立成功大学),
National Sun Yat-Sen University (NSYSU) (国立中山大学),
National Taiwan Normal University (NTNU) (国立台湾師範大学)

Program (プログラム)

1 Plenary Session

Feb.16 (Thu)

9:15 – 9:30 Opening Ceremony

9:30 – 10:10 Prof. Morimitsu Tanimoto and Prof. Tae Hwa Kim
Brief introduction of Faculty of Science (NU) and College of Natural Sciences (PKNU)

10:10 – 10:30 Prof. Ruey-Lin Sheu and Prof. Hui-Ling Sung
Brief introduction of National Cheng Kung University (NCKU) and National Taiwan Normal University (NTNU)

2 Parallel Session

2.1 Agenda of Mathematics Department (数学科, 理学部棟 A523)

Place: Faculty of Science Building 5th Floor, rm. A523

Coordinator: Tanaka, Tamaki (田中 環)

Feb.16 (Thu)

10:45 – 11:25 Prof. Lee, Gue Myung (PKNU)
Fréchet and normal coderivatives of implicit multifunctions

11:25 – 13:00 Lunch (昼食). For PKNU scholarship students, please follow Prof. Tanaka to take procedures at International Affairs Division of NU on the way to the lunch place. Please take the passport and (a copy of) e-ticket.

13:00 – 13:40 Prof. Kim, Do Sang (PKNU)
Characterizations of solution sets of nonconvex programs via Lagrange function

13:40 – 14:20 Prof. Jang, Dae Heung (PKNU)
Correlation-based r-plot for evaluating supersaturated designs

- 14:20 – 14:30 Break (休憩時間)
- 14:30 – 15:00 Lee, Jae Hyoung (PKNU)
On ϵ -solutions for robust fractional optimization problems with geometric constraints
- 15:00 – 15:30 Bae, Kwan Deok (PKNU)
Mixed duality without constraint qualification in nonsmooth multiobjective optimization
- 15:30 – 16:00 Ando, Keita (NU)
An inner approximation method for optimization over the weakly efficient set of multiobjective DC programming problems
- 16:00 – 16:10 Break (休憩時間)
- 16:10 – 16:40 Cheon, Su Jin (PKNU)
Optimal problems and regularity for nonlinear variational inequalities
- 16:40 – 17:10 Naoki, Terahira (NU)
Study on payoff redistribution in Cournot type oligopoly market model based on game theory
- 17:40 – 19:30 Welcome party (歓迎会) at Student Restaurant (Cafeteria No.3). After the party, the hotel free bus will be available.

Feb.17 (Fri)

- 9:15 – 9:55 Prof. Sheu, Ruey-Lin (NCKU)
Improved estimation of duality gap in binary quadratic programming using a weighted distance measure
- 9:55 – 10:35 Prof. Park, Inho (PKNU)
Disclosure risk and variance estimation in complex surveys
- 10:35 – 10:50 Break (休憩時間)
- 10:50 – 11:20 Kim, Ho Jung (PKNU)
Generalized invexity and duality in nonsmooth multiobjective optimization involving cones
- 11:20 – 11:50 Watanabe, Toshikazu (NU)
On Lusin's theorem for non-additive measures
- 11:50 – 13:00 Lunch (昼食)
- 13:00 – 13:40 Prof. Kim, Tae Hwa (PKNU)
The modified Mann iteration methods for an asymptotically strictly quasi-pseudo-contractive family in Hilbert spaces
- 13:40 – 14:10 Han, Sung Won (PKNU)
Strong convergence of modified Ishikawa iteration processes for uniformly Lipschitzian mappings
- 14:10 – 14:35 Yi, Su Yeon (PKNU)
Strong convergence theorems for total asymptotically nonexpansive families
- 14:35 – 14:45 Break (休憩時間)
- 14:45 – 15:10 Hung, Wei-Chun (NCKU)
An introduction for scale-invariant feature transform and its some improvements
- 15:10 – 15:35 Lee, Yi-Min (NCKU)
A numerical simulation of spherical piston problem
- 15:35 – 16:00 Saito, Yutaka (NU)
An observation on Fenchel duality theorem

2.2 Agenda of Physics Department (物理学科, 物質生産棟 161)

Place: Material and Industrial Science Building 1st Floor, rm. 161

Coordinator: Iyetomi, Hiroshi (家富 洋)

Feb.16 (Thu)

- 10:45 – 13:00 Lunch (昼食). For PKNU scholarship students, please follow each coordinator to take procedures at International Affairs Division of NU on the way to the lunch place. Please take the passport and (a copy of) e-ticket.
- 13:00 – 13:40 Prof. Yoshimi Tsuchiya (NU)
Crossover liquid-liquid transitions in liquid Te and Se-Te alloys
- 13:40 – 14:05 Yuyu Tao (PKNU)
Luminescence from Eu³⁺ ions in disordered-layers of LaSr₂AlO₅:Eu³⁺
- 14:05 – 14:30 Miju Kim (PKNU)
Luminescence properties of Eu³⁺-doped Sr_{3-x}A_xAlO₄F (A=Ca,Ba,Sr) phosphors
- 14:30 – 14:55 Yu-Rui Lin (NCUE)
Investigation on optical performance of quaternary AlInGaN-based ultraviolet light-emitting diode
- 14:55 – 15:15 Break (休憩時間)
- 15:15 – 15:40 Tz-Neng Lin (CYCU)
Optical properties in gold nanoclusters
- 15:40 – 16:05 Mizuki Kuga (NU)
Molecular dynamics study of surface melting in ice Ih
- 16:05 – 16:30 Fang-Ming Chen (NCUE)
Numerical study of (0001) face GaN/InGaN p-i-n solar cells with compositional grading configuration
- 16:30 – 16:55 Yung-Chi Yao (NTNU)
The use of two-dimensional nanorod arrays with slanted ITO film to enhance optical absorption for photovoltaic applications
- 17:40 – 19:30 Welcome party (歓迎会) at Student Restaurant (Cafeteria No.3). After the party, the hotel free bus will be available.

Feb.17 (Fri)

- 10:00 – 10:40 Prof. Kyungsik Kim (PKNU)
Stability of group correlations in KOSPI and KOSDAQ
- 10:40 – 11:05 Takeo Yoshikawa (NU)
Frustrated correlation structure in the Tokyo Stock Exchange market
- 11:05 – 11:30 Jeung-Su Ko (PKNU)
Numerical analysis of group correlations in Korean financial markets
- 11:30 – 11:55 Seong-Kyu Seo (PKNU)
Variability analysis for the rainfall, wind speed, and temperature using the multifractal detrended fluctuation analysis
- 11:55 – 13:30 Lunch (昼食)
- 13:30 – 13:55 Yuki Matsuura (NU)
Temporal evolution of a credit network formed by banks and listed firms in Japan
- 13:55 – 14:20 Woon Hak Baek (PKNU)
Topological properties of korean seismic networks
- 14:20 – 14:45 Woon Seon Jung (PKNU)
Dynamical mechanism of distributions in sea surface temperatures
- 14:45 – 15:10 Bu Kyung Kim (PKNU)
Analysis of Multifractal Behaviors in the Go game

2.3 Agenda of Chemistry Department (化学科, 理学部棟 A312)

Place: Faculty of Science Building 3rd Floor, rm. A312

Coordinator: Yukawa, Yasuhiko (湯川 靖彦)

Feb.16 (Thu)

- 10:45 – 13:00 Lunch (昼食). For PKNU scholarship students, please follow each coordinator to take procedures at International Affairs Division of NU on the way to the lunch place. Please take the passport and (a copy of) e-ticket.
- 13:00 – 17:30 Free time
- 17:40 – 19:30 Welcome party (歓迎会) at Student Restaurant (Cafeteria No.3). After the party, the hotel free bus will be available.

Feb.17 (Fri)

- 9:00 – 13:30 Free time
- 13:30 – Opening by Prof. Y. Yukawa
Chairman: Prof. K. Maruyama
- 13:35 – 13:55 Toda, Takahiro (NU)
Influences of Central Metals and Annealing on the Photogeneration of Soluble Phthalocyanine Thin Films
- 13:55 – 14:15 Ambe, Christopher E. (NU)
Photodynamics of Pentacene in Films Studied by Magnetic Field Effect and Electron Spin Resonance
- 14:15 – 14:35 Sato, Satoshi (NU)
Structural changes of expanded liquid Se near the semiconductor-metal transition region
- 14:35 – 14:55 Beak, Jeong Ha (PKNU)
Spectroscopic and Morphological Investigation of Co₃O₄ Microfibers Produced by Electrospinning Process
- 14:55 – 15:30 Break (休憩時間)
Chairman: Prof. Y. Yukawa
- 15:30 – 16:00 Prof. Sung, Hui-Ling (NTNU)
Synthesis and Reactivity of Ruthenium Vinylidene Complexes
Chairman: Prof. T. Ikoma
- 16:00 – 16:20 Jang, Chungsik (PKNU)
Coordination polymers and supramolecules constructed from Cu(II) macrocycles and bridging ligands
- 16:20 – 16:40 Shin, Hyang Jin (PKNU)
Molecular interactions of metallo-macrocycles toward carboxylate ions
- 16:40 – 17:00 Shida, Satoko (NU)
Synthesis of iron trinuclear complexes bridged by several amino acid ligands
- 17:00 – Closing by Prof. H. Kudo
- 18:00 – 20:00 Welcome party for Chemistry session (分科会歓迎会)