

3rd International Symposium

“International Collaboration Research Base for Reaction of Atmosphere- Marine-Ecosystem Caused by Aerosol”

**JSPS Program for Advancing Strategic International Networks to
Accelerate the Circulation of Talented Researchers**



Place	Hotel Noto Kinpura (Otsusaka, Noto, Hosu, Ishikawa)
Date	October 9 (Mon) -10 (Tue), 2017
Organizer	Institute of Nature and Environmental Technology, Kanazawa University (Joint Usage/Research Center selected by MEXT, Japan)
Sponsor	Japan Society for the Promotion of Science

Monday, October 9

12:00-13:00 **Registration**

13:00-17:30 **Symposium**

13:00-13:10 Opening Remarks
Prof. Kazuichi Hayakawa (Program Director)

13:10-13:20 Welcome Address
Prof. Koetsu Yamazaki (President of Kanazawa University)

Plenary Lectures

Chair: Takafumi Seto

13:20-14:00 Design of Aerosol Measurement: Developments and Opportunities
Prof. Richard C. Flagan (California Institute of Technology)

14:00-14:40 Atmospheric Aerosols: PM_x-Issue and Visibility
Prof. Wladyslaw W. Szymanski (University of Vienna)

14:40-15:20 A proposal for collaborative research on urban aerosols in Singapore
Prof. Stephen B. Pointing (Auckland University of Technology/Yale NUS College)

15:20-16:30 Coffee Break & Poster Presentation

Key Note Lectures

Chair: Seiya Nagao

16:30-17:00 Influences of Continental Anthropogenic Sources on Organic Aerosols in the Coastal Atmosphere of East China
Prof. Min Hu (Peking University)

17:00-17:30 Biological Monitoring of Exposure to Diesel Exhaust Using Urinary 1-Nitropyrene Metabolites.
Prof. Christopher D. Simpson (Washington University)

18:30-20:00 Symposium Dinner (with Awarding Ceremony for Posters)

Monday, October 9

Poster Presentations

- P- 1. Low-Level of the FDNPP-derived radiocesium in marine products around the western Japanese
Ms. Shiori Yamashita (M; Kanazawa University)
- P- 2. Radioactivity Variation and Transport Behavior of Radiocesium in the Natusi River after the Fukushima Dai-Ichi Nuclear Power Plant Accident
Mr. Toshiki Morokado (M; Kanazawa University)
- P- 3. Sedimentation Processes of Radiocesium at Mountain Lakes in Gunma Prefecture, Japan
Mr. Shohei Miyasaka (M; Kanazawa University)
- P- 4. 3A06 Study on Migration Behavior of Suspended Solids in the Kumaki River Using Carbon-Nitrogen Isotope Ratio and Radionuclides
Mr. Ryunosuke Tahara (M; Kanazawa University)
- P- 5. Stress Response of Noto Deep Ocean Water in Marine Fishes
Mr. Takahiro Ikari (M; Kanazawa University)
- P- 6. Effects of α -Melanocyte-Stimulating Hormone on Osteoblasts and Osteoclasts in the Regenerating Scales of Goldfish
Mr. Hidenori Ishizu (B; Kanazawa University)
- P- 7. Purification and Characterization of the Antibacterial L-Amino Acid Oxidase in the Red-Spotted Grouper Serum
Mr. Yuto Osaka (B; Kanazawa University)
- P- 8. Spatial Temporal Variability of PM_{2.5} in Urban Areas in Rwanda
Mr. Egide Kalisa (D; Auckland University of Technology)
- P- 9. Characterization of Individual Ice Residual Particles by the Single Droplet Freezing Method: A Case Study in the Asian Dust Outflow Region
Mr. Ayumi Iwata (D; Kanazawa University)
- P- 10. The Long-Term Ground Based Observation of Micro-Physics and Chemical Composition of Cloud Condensation Nuclei at Noto Peninsula, Japan
Mr. Kento Kinouchi (D; Kanazawa University)
- P- 11. Investigation on the Factors Involved in the Ice Nucleation Activity of Mineral Dust Aerosols and the Effect of Atmospheric Aging
Mr. Kohei Tadokoro (M; Kanazawa University)

Monday, October 9

- P- 12. Meteorological Effects on Long-Range Transported TSP and PAHs at Noto Peninsula and Fukue Island, Japan
Ms. Lu Yang (M; Kanazawa University)
- P- 13. Molecular Dynamics Simulation of Electrical Mobility of Molecular Cluster Ions
Mr. Tomoya Tamadate (M; Kanazawa University)
- P- 14. Unipolar Charging of Aerosol by Surface-Discharge Microplasma
Mr. Ryoki Ito (M; Kanazawa University)
- P- 15. Characterization of Vertical Structure of Nanoparticles in Fukue Island, Japan
Postdoctoral Fellow Kwangyul Lee (Kanazawa University)
- P- 16. 5-Year Data of New Particle Formation Under Transboundary Air Pollutants in Fukue Island, Japan
Postdoctoral Fellow Indra Chandra (Kanazawa University)
- P- 17. Characteristics of Ambient Nanoparticles in East Asian Cities Based on Monitoring Campaigns by East-Asia Nanoparticle Monitoring Network
Ms. Surapa Hongtieab (M; Kanazawa University)
- P- 18. Investigation into Time Dependency of Staining Process of Microbes for Bio-aerosol Online Monitoring
Ms. Suthida Piriyaakarnsakul (D; Kanazawa University)
- P- 19. A Cascade Air Sampler for PM_{0.1} Using a Sharp-Cut Inertial Filter Combined with an Impactor
Mr. Hideaki Takahashi (M; Kanazawa University)
- P- 20. Characteristics of Particles Emitted from Wood Biomass Burned under Various Conditions
Mr. Yusuke Okazaki (M; Kanazawa University)
- P- 21. Assessment of Influences of Outdoors Smoking based on Dynamic Analysis of Behaviors of Smokers and Non-smokers around an Outdoor Smoking Booth Using a Signal from Handy Phones
Mr. Nuttapon Kumsanlas (B; Kanazawa University)

D: Doctoral student

M: Master student

B: Undergraduate student

Tuesday, October 10

Collaboration Research Reports

Chair: Masami Furuuchi

- 08:30-09:00 Concept of Differential Activation Particle Sampler (DAPS)
Prof. Yoshio Otani (California Institute of Technology-Kanazawa University)
- 09:00-09:30 Development of Samplers for Airborne Nanoparticle Monitoring
Assoc. Prof. Mitsuhiko Hata (University of Vienna-Kanazawa University)
- 09:30-10:00 Collaboration Study between Kanazawa University, Japan, Auckland, New Zealand
Prof. Kazuichi Hayakawa/Assist. Prof. Toshio Sekiguchi (Auckland University of Technology-Kanazawa University)
- 10:30-10:45 Coffee Break

Collaboration Research Topics

Chair: Nobuo Suzuki

- 10:45-11:05 High Temporal Resolution Analysis of Airborne Microorganisms in New Zealand
Research Fellow Stephen Archer (Auckland University of Technology)
- 11:05-11:25 Towards Resolving Aerosol Microbial Community Structures in New Zealand
Senior Research Officer Kevin Lee (Auckland University of Technology)
- 11:25-11:45 Ecotoxicological Analysis of the Influence of Marine Pollutants on Marine Animals
Assist. Prof. Toshio Sekiguchi (Kanazawa University)
- 11:45-11:50 Closing Remarks
Prof. Chisato Mukai (Vice President of Kanazawa University)
- 11:50-13:00 Lunch