



YEIS International Forum

This forum is organized by Faculty of Environment and Information Sciences, Yokohama National University (YNU) to present our various researches and to globalize ourselves. In particular, we invited many researches from Prince of Songkla University (PSU), Thailand. There is a poster session in parallel to the contributed session. Everyone is welcome to participate in the forum.

Open remarks 9:30 — 9:40

Contributed session 13:45 — 16:00

Plenary session I 9:40 — 12:25

9:40 — 10:10 Junji SHIKATA (YNU)
Recent topics and trends in cryptography and our challenges

10:10 — 10:40 Junichi TATAMI (YNU)
Advanced ceramics for energy and environmental applications

10:40 — 11:10 Atsumi MIYAKE (YNU)
Risk assessment of hydrogen fueling station for fuel cell vehicles

● *Coffee break* ●

11:25 — 11:55 Kuaanan TECHATO (PSU)
1. Research direction of the faculty of Environmental Management / 2. Green wall and roof

11:55 — 12:25
Worawit WONGNIRAMAİKUL,
Werapong KOEDSIN (PSU)
Research direction and programs of Faculty of Technology and Environment Applied Chemistry and Environmental Technology Research Center

● *Lunch time* ●

13:45 — 14:00 Atsuhiko NAKAMOTO (YNU)
Art gallery problem and polychromatic coloring of graphs

14:00 — 14:15 Mahito ATOBE (YNU)
Size-controlled synthesis of PMMA nanoparticles with tandem acoustic emulsification followed by soap-free emulsion polymerization

14:15 — 14:30 Masaru OYA (YNU)
Consumer science of household chemical products

14:30 — 14:45 Kazuyuki HIRATSUKA (YNU)
Development of bioluminescence reporter systems to monitor regulated gene expression in higher plants

● *Coffee break* ●

15:00 — 15:15 Nikom SUVONVORN (PSU)
Vision-based human behavior analysis for elderly monitoring system

15:15 — 15:30 Sara BUMRUNGSRI (PSU)
From coral reef to high mountain: the research in Biology department, PSU

15:30 — 15:45 Kanjana THONGGLIN (PSU)
Controlled language for Thai software requirements specification

15:45 — 16:00 Avirut PUTTIWONGRAK (PSU)
General information and research information about Earth System Science and Andaman Natural Disaster Management -ESSAND

Plenary session II 16:15 – 17:45

16:15 – 16:45 Fumito KOIKE (YNU)

Urban area as ecological habitat

16:45 – 17:15 Sangsuree VASUPONGAYYA (PSU)

Preventive healthcare through secure personal health record framework

17:15 – 17:45 Amornrat PHONGDARA (PSU)

Genome to products : case study from PSU

Poster session 13:00 – 16:00

Pornchai PHUKPATTARANONT (PSU)

Biomedical signal and image analysis

Sumetha SUWANBOON (PSU)

Multifunctional properties of ZnO nanomaterial

Phuket Campus Team (PSU)

Cost-effective test kit for iron in water

Yohei WATANABE (YNU)

How to provide long-term security and required functionality for cloud storage

Yuu ISHIDA (YNU)

Constructions of strongly secure revocable identity-based encryption

Shota GOTO (YNU)

Composition of cryptographic protocols and analysis with game theory

Eisaku TANAKA (YNU)

Development of a novel electropolymerization method using neat monomer solution and evaluation of deposited conducting polymer

Yang QU (YNU)

Cathodic cross-coupling reaction between aromatic compounds through SET pathway toward a novel biphenyl synthesis

Gen KAWATANI (YNU)

Intersection graphs of posets

Shinichi YONEKURA (YNU)

Minor relations for quadrangulations on the projective plane

Shota OGANO, Taku TOJO (YNU)

Distinguishing coloring and re-embedding structures of triangulations on closed surfaces

Ayaka SUGIHARA, Yumiko OHNO (YNU)

Challenge to perfect circle drawing

Asami KIMURA (YNU)

4D vision and experience with projection mapping

Kwang-jin JEONG (YNU)

Fabrication of Si₃N₄ ceramics by post-reaction sintering using Si-Y₂O₃-Al₂O₃ nanocomposite particles

Takafumi TATEWAKI (YNU)

Synoptic scale mammal density map based on roadkill records

Aya HEIHO (YNU)

Benefits of biogas projects from local and global perspectives

Reception at Party 18:00 – 20:00