

Oct.15 (Sun)

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Oct.16 (Mon)

Table with 4 columns: Room A, Room B, Room C, Room D. Contains sessions for Opening 15 min, PL-1, PL-2, Break 30 min, PSLO-KN-1, PSLO-KN-2, PSLO-KN-3, PSLO-I-1, PSLO-I-2, PSLO-I-3, PSLO-I-4, PSLO-I-5, PSLO-I-6, PSLO-I-7, PSLO-I-8, PSLO-I-9, PSLO-I-10, PSLO-I-11, PSLO-I-12, PSLO-I-13, PSLO-I-14, PSLO-I-15, PSLO-I-16, PSLO-I-17, PSLO-I-18, PSLO-I-19, PSLO-I-20, PSLO-I-21, PSLO-I-22, PSLO-I-23, PSLO-I-24, PSLO-I-25, PSLO-I-26, PSLO-I-27, PSLO-I-28, PSLO-I-29, PSLO-I-30, PSLO-I-31, PSLO-I-32, PSLO-I-33, PSLO-I-34, PSLO-I-35, PSLO-I-36, PSLO-I-37, PSLO-I-38, PSLO-I-39, PSLO-I-40, PSLO-I-41, PSLO-I-42, PSLO-I-43, PSLO-I-44, PSLO-I-45, PSLO-I-46, PSLO-I-47, PSLO-I-48, PSLO-I-49, PSLO-I-50, PSLO-I-51, PSLO-I-52, PSLO-I-53, PSLO-I-54, PSLO-I-55, PSLO-I-56, PSLO-I-57, PSLO-I-58, PSLO-I-59, PSLO-I-60, PSLO-I-61, PSLO-I-62, PSLO-I-63, PSLO-I-64, PSLO-I-65, PSLO-I-66, PSLO-I-67, PSLO-I-68, PSLO-I-69, PSLO-I-70, PSLO-I-71, PSLO-I-72, PSLO-I-73, PSLO-I-74, PSLO-I-75, PSLO-I-76, PSLO-I-77, PSLO-I-78, PSLO-I-79, PSLO-I-80, PSLO-I-81, PSLO-I-82, PSLO-I-83, PSLO-I-84, PSLO-I-85, PSLO-I-86, PSLO-I-87, PSLO-I-88, PSLO-I-89, PSLO-I-90, PSLO-I-91, PSLO-I-92, PSLO-I-93, PSLO-I-94, PSLO-I-95, PSLO-I-96, PSLO-I-97, PSLO-I-98, PSLO-I-99, PSLO-I-100. Includes speakers like Jyh-Wei Lee, Eun Ha Choi, Hiroaki Nakamura, Yuzuru Ikehara, Hajime Sakakita, Kenji Ishikawa, Kosuke Takenaka, etc.

Oct.17 (Tue)

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Oct.18 (Wed)

Table with 4 columns: Room A, Room B, Room C, Room D. Contains sessions for PL-5, PL-6, Break 30 min, PSLO-I-3, PSLO-I-4, PSLO-I-5, PSLO-I-6, PSLO-I-7, PSLO-I-8, PSLO-I-9, PSLO-I-10, PSLO-I-11, PSLO-I-12, PSLO-I-13, PSLO-I-14, PSLO-I-15, PSLO-I-16, PSLO-I-17, PSLO-I-18, PSLO-I-19, PSLO-I-20, PSLO-I-21, PSLO-I-22, PSLO-I-23, PSLO-I-24, PSLO-I-25, PSLO-I-26, PSLO-I-27, PSLO-I-28, PSLO-I-29, PSLO-I-30, PSLO-I-31, PSLO-I-32, PSLO-I-33, PSLO-I-34, PSLO-I-35, PSLO-I-36, PSLO-I-37, PSLO-I-38, PSLO-I-39, PSLO-I-40, PSLO-I-41, PSLO-I-42, PSLO-I-43, PSLO-I-44, PSLO-I-45, PSLO-I-46, PSLO-I-47, PSLO-I-48, PSLO-I-49, PSLO-I-50, PSLO-I-51, PSLO-I-52, PSLO-I-53, PSLO-I-54, PSLO-I-55, PSLO-I-56, PSLO-I-57, PSLO-I-58, PSLO-I-59, PSLO-I-60, PSLO-I-61, PSLO-I-62, PSLO-I-63, PSLO-I-64, PSLO-I-65, PSLO-I-66, PSLO-I-67, PSLO-I-68, PSLO-I-69, PSLO-I-70, PSLO-I-71, PSLO-I-72, PSLO-I-73, PSLO-I-74, PSLO-I-75, PSLO-I-76, PSLO-I-77, PSLO-I-78, PSLO-I-79, PSLO-I-80, PSLO-I-81, PSLO-I-82, PSLO-I-83, PSLO-I-84, PSLO-I-85, PSLO-I-86, PSLO-I-87, PSLO-I-88, PSLO-I-89, PSLO-I-90, PSLO-I-91, PSLO-I-92, PSLO-I-93, PSLO-I-94, PSLO-I-95, PSLO-I-96, PSLO-I-97, PSLO-I-98, PSLO-I-99, PSLO-I-100. Includes speakers like Kazunori Koga, Christian Petrica Lungu, Juergen F. Kolb, etc.

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Wa Rasse 2F
Public lecture
(in Japanese)
Plasma Exhibition
(up to ~17:30)
Pre-registration
Wa Rasse 2F

Assembley
Bus departure
to Sannai-Maruyama
Site
Banquet 120 min
Wa Rasse 1F

PSLO: PWI/SOL/Laser/Optics
DX: Data-driven
B: Bio
S: Semiconductor
GN: Green & nano
WFPP: Workshop on Fine Particles Physics (jointly held)

Chairs in red

GPF-Aomori Program

In the order of Day, Room, Time Poster List from p.10

Oct. 16 (Mon)

Room A

9:15-9:30 Opening Ceremony

Room A

9:30-10:00 **PL-1 Jyh-Wei Lee (Ming Chi University of Technology, Taiwan)**

Current research of cold atmospheric plasma and plasma-based thin film technologies in CPTFT, MCUT, Taiwan

10:00-10:30 **PL-2 Eun Ha Choi (Kwangwoon University, Republic of Korea)**

Plasma Agriculture Works with Plasma Treated Nitric Oxide Water (PTNOW) in Korea

Group Photo (Place will be announced)

Coffee Break (2F)

Room A

11:00-11:25 **PSLO-KN-1 Minyou Ye (University of Science and Technology of China, China)**

Hydrogen isotope behavior in tungsten and RAFM steels

11:25-11:50 **PSLO-KN-2 Guang-Hong Lu (Beihang University, China)**

Beneficial Effects of Helium in Tungsten in Context of Fusion Plasma and Wall Interactions

11:50-12:15 **PSLO-KN-3 Shin Kajita (The University of Tokyo, Japan)**

Effect of co-deposition on helium plasma irradiation to tungsten

12:15-12:35 **PSLO-I-1 Yue Yuan (Beihang University, China)**

Performance of tungsten materials under sequential high heat flux loading and deuterium plasma exposure

Room B

11:00-11:25 **B-KN-1 Shinaya Toyokuni (Nagoya University, Japan)**

Low-temperature plasma as a ferroptosis inducer in cancer cells

11:25-11:45 **B-I-1 Ihn Han (Kwangwoon University, Republic of Korea)**

Assessment of probability estimation on human tissue-derived fibroblast/stromal cells response to non-thermal biocompatible plasma

11:45-12:05 **B-I-2 Bih-Show Lou (Chang Gung University, Taiwan)**

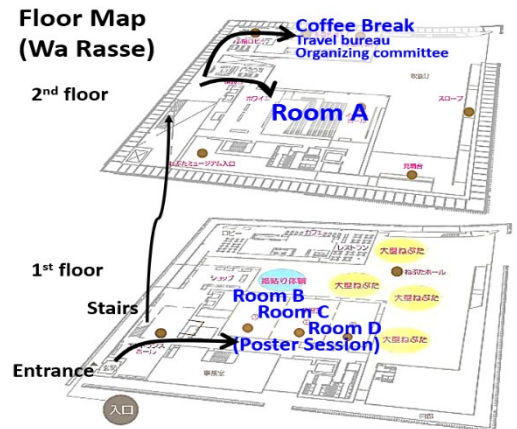
Cold atmospheric plasma facilitates wound healing for type 2 diabetes and skin flap treatments

12:05-12:25 **B-I-3 Ying-Hung Chen (Feng Chia University, Taiwan)**

In vivo toxicity test of DBD plasma activated water by using Zebrafish

12:25-12:40 **B-O-1 Camelia Miron (Nagoya University, Japan)**

Chemically active compounds formed in low-temperature plasma treated liquids for cancer treatment



Room C

11:00-11:20 **S-I-1 Jaeho Kim (Samsung Electronics, Republic of Korea)**

Recent trends of plasma deposition technologies for the development of next-generation electronic devices

11:20-11:45 **S-KN-1 Sijun Kim for Shinjae You (Chungnam National University, Republic of Korea)**

On the mechanism of Arcing phenomenon in low temperature plasma

11:45-12:10 **S-KN-2 Shu-Kai S. Fan (National Taipei University of Technology, Taiwan)**

Enterprise intelligentization of semiconductor manufacturing in Taiwan

12:10-12:35 **S-KN-3 Hisashi Yamada (National Institute of Advanced Industrial Science and Technology, Japan)** Ammonia-free plasma-enhanced MOCVD for nitride semiconductors

Room D - Workshop on Fine Particle Plasma -

11:00-11:20 **WFPP-I-1 Giichiro Uchida (Meijo University, Japan)**

Property control of Ge and Si nanostructured films by high-pressure He sputtering process for next-generation Li ion battery

11:20-11:40 **WFPP-I-2 Munaswamy Murugesh (Hokkaido University, Japan)**

A process for synthesizing melted tin-carbon core-shell nanoparticles using dusty plasma

11:40-12:00 **WFPP-I-3 Shinjiro Ono (Kyushu University)**

Controlling the synthesis, transport, and surface coverage of carbon nanoparticles using plasma CVD

12:00-12:40 **WFPP-KN-1 Takeshi Kitajima (National Defense Academy of Japan, Japan)**

Plasmonic plasma process using nanoparticles on substrate

Lunch Break

Room A

14:00-14:30 **PL-3 Jenq-Gong Duh (National Tsing-Hua University, Taiwan)**

Exploration of atmospheric pressure plasma technique in the surface modification on anode material for high-rate lithium-ion battery and rapid organic fertilizer manufacturing for sustainable farming

14:30-15:00 **PL-4 Heeyeop Chae (Sungkyunkwan University, Republic of Korea)**

Plasma-enhanced atomic layer etching for metals and dielectric materials

Room A

15:10-15:35 **PSLO-KN-4 Ivo Classen (Dutch Institute For Fundamental Energy Research, The Netherlands)** Overview of plasma heat exhaust studies in the DIFFER linear devices

15:35-16:00 **PSLO-KN 5 Kyu-Sun Chung (Hanyang University, Republic of Korea)**

Review on DiPS-2 as a linear plasma device: source, diagnostics, physics and PMI

Room B

15:10-15:30 **DX-I-1 Mi-Young Song (Korea Institute of Fusion Energy, Republic of Korea)**

Plasma fundamental research activities based on atomic and molecular data in Korea institute of fusion

energy

15:30-15:50 **DX-I-2 Ryohtaro T. Ishikawa (National Institute for Fusion Science, Japan)**

Multi-scale deep learning for estimating horizontal velocity fields on the solar surface

15:50-16:10 **DX-I-3 Yoh-ichi Mototake (Hitotsubashi University, Japan)**

Interpretable AI supporting scientists' insight into large-scale dynamics

Room C

15:10-15:30 **GN-I-1 Hideaki Yamada (National Institute of Advance Industrial Science and Technology, Japan)** Plasma processing for diamond wafers

15:30-15:50 **GN-I-2 Adnan Ali (Jeju National University, Republic of Korea)**

Nitrogen doped and undoped Ti_3C_2Tx/Co_3O_4 hybrid composites synthesis for application as anode materials in flexible Supercapacitor

15:50-16:10 **GN-I-3 Moo Been Chang (National Central University, Taiwan)**

Development of plasma catalysis system for reducing the emissions of GHGs and air pollutants

Room D - Workshop on Fine Particle Plasma -

15:10-15:30 **WFPP-I-4 Yasuaki Hayashi (Yamato University, Japan)**

Gradient-descent-method analysis of Mie-scattering ellipsometry during fine-particle growth in plasma

15:30-15:50 **WFPP-I-5 Kazuo Takahashi (Kyoto Institute of Technology, Japan)**

Analyses of Coulomb crystals in dusty plasmas under gravity and microgravity

15:50-16:10 **WFPP-I-6 Masaharu Shiratani (Kyushu University, Japan)**

Highly sensitive electric field vector measurements using an optically trapped fine particle

Coffee Break (2F)

Room A

16:40-17:05 **PSLO-KN-6 Hongbin Ding (Dalian University of Technology, China)**

Laser-induced breakdown spectroscopy for wall diagnosis in nuclear fusion devices

17:05-17:25 **PSLO-I-2 Yong Sup Choi (Korea Institute of Fusion Energy, Korea)**

Development of plasma application technology in IPT-KFE

17:25-17:40 **PSLO-O-1 Jia-Guan Peng (Beihang University, China)**

Surface morphology and grain structure changes induced by helium ion implantation and subsequent thermal annealing

17:40-17:55 **PSLO-O-2 Ze Chen (University of Science and Technology of China, China)**

MD simulation of the interaction between hydrogen and helium bubble in bcc iron

Room B

16:40-17:00 **DX-I-4 Akira Kusaba (Kyushu University, Japan)**

Data assimilation in semiconductor crystal growth: chemical reaction network modeling

17:00-17:20 **DX-I-5 Keisuke Yano (The Institute of Statistical Mathematics, Japan)**

A new approach to mixed-domain and higher-order dependence modeling

17:20-17:40 **DX-I-6 Pierre Vinchon (Osaka University, Japan)**

Monolayer Graphene, an ideal material for exploring out-of-equilibrium phenomena involved in plasma-surface interactions

17:40-18:00 **DX-I-7 Nikolay Britun (Nagoya University, Japan)**

Poly-diagnostics of a nanosecond He-based atmospheric plasma

Room C

16:40-17:00 **GN-I-4 Avik Denra (Jeju National University, Republic of Korea)**

Application of gliding arc plasma in nitrogen fixation: conversion of atmospheric nitrogen into nitro compounds

17:00-17:20 **GN-I-5 Sosiawati Teke (Jeju National University, Republic of Korea)**

The potential of a simple microplasma reactor in cobalt oxide nanoparticle synthesis

17:20-17:40 **GN-I-6 Masahiro Shibuta (Osaka Metropolitan University, Japan)**

Sputter-grown size-selected nanocluster synthesis: deposition and characterization for material science

17:40-18:00 **GN-I-7 Takashi Tsuji (National Institute of Advanced Industrial Science and Technology, Japan)**

A microplasma-based approach for the growth of highly crystalline carbon nanotubes

Room D - Workshop on Fine Particle Plasma -

16:40-17:00 **WFPP-I-7 JongYoon Park (Seoul National University, Republic of Korea)**

Discharge mode transition triggered by three-wave coupling in partially magnetized cross-field plasma

17:00-17:20 **WFPP-I-8 Massimiliano Romé (University of Milano, and INFN-Milano, Italy)**

Non-neutral plasmas in Penning-Malmberg traps: fundamental studies and applications

17:20-17:40 **WFPP-I-9 Kosuke Takenaka (Osaka University, Japan)**

Plasma-assisted mist CVD for formation of 3D nanostructured zinc oxide thin films

17:40-18:00 **WFPP-I-10 Kazunori Koga (Kyushu University)**

Evaluation of carbon nanoparticle adhesion on substrate surface deposited by plasma CVD

18:00-18:20 **WFPP-I-11 Yasunori Tanaka (Kanazawa University)**

Contribution of Condensation and Coagulation for Nanoparticle Growth in Modulated Induction Thermal Plasmas

Light Meal (Coffee Break Place)

Room A

18:20-18:35 **PSLO-O-3 Hao Yin (Beihang University, China)**

Surface blistering and deuterium retention in chemical vapor deposition tungsten exposed to deuterium plasma

18:35-18:50 **PSLO-O-4 Yuto Toda (SOKENDAI, Japan)**

Time-dependent density functional theory simulation for neutralization process of hydrogen ion injected onto graphene

Room B

18:20-18:40 **DX-I-8 Micheal Mo (Nagoya University, Japan)**

Simultaneous measurements of F, O and H ground state atom density in an industry-grade etching plasma

18:40-18:55 **DX-O-1 Fatima Jenina Arellano (Osaka University, Japan)**

Machine learning prediction of plasma parameters from optical emission spectra in argon plasma

18:55-19:10 **DX-O-2 Sarah S. N. Alamri (Osaka University, Japan)**

Numerical simulation of RF-driven capacitively coupled argon plasmas and comparison with experimental observations

19:10-19:25 **DX-O-3 Pierre Mathieu (University of Mons, Belgium)**

Preliminary investigation of methane plasmalysis in an atmospheric pressure gliding arc plasma

Room C

18:20-18:45 **GN-KN-1 Ju-Liang He (Feng Chia University, Taiwan)**

Broadening plasma polymerization process for functional coatings

18:45-19:05 **GN-I-8 Magdaleno R Vasquez Jr. (University of the Philippines Diliman, Philippines)**

Development of atmospheric pressure plasma sources for material modification

~~19:05-19:25 **GN-I-9 Jinjing Luo (Xiamen University, China)**~~

~~Surface modification by non-thermal plasma for gaseous mercury removal~~

19:25-19:40 **GN-O-1 Mark D. Iasin (University of the Philippines Diliman, Philippines)**

Amorphous carbon film deposition using low-energy ions

19:40-19:55 **GN-O-2 Liugang Hu (Nagoya University, Japan)**

Selective removal of graphene by irradiation of remote oxygen plasma

19:55-20:10 **GN-O-3 Ngo Quang Minh (Nagoya University, Japan)**

Synthesis and characteristics of carbon nanowalls using two-step growth combining different plasma chemical vapor deposition methods

Oct. 17 (Tue)

9:10~11:40 Poster Session (Room B+C+D), "poster list" at the end of this program

13:00 Assembly at Coffee Break Place

13:10 Bus departure for Sannai-Maruyama Site

16:45 Assembly at Sannai-Maruyama Site Entrance

17:00 Bus departure for Wa Rasse

17:30 “Feel and Enjoy Aomori” Banquet at Wa Rasse

Oct. 18 (Wed)

Room A

9:15-9:45 **PL-5 Cristian Petrica Lungu (National Institute for Laser, Plasma and Radiation Physics, Romania)** Beryllium dust preparation to mimic particle formation in fusion devices

9:45-10:15 **PL-6 Juergen F. Kolb (Leibniz Institute for Plasma Science and Technology, Germany)**
Plasma treatment of water for agricultural production

Coffee Break (2F)

Room A

10:45-11:05 **PSLO-I-3 Long Cheng (Beihang University, China)**

Mechanism of blistering and retention in recrystallized tungsten exposed to deuterium plasma in the linear plasma device STEP

11:05-11:25 **PSLO-I-4 Dogyun Hwangbo (University of Tsukuba, Japan)**

Spectroscopic measurement of deuterium recycling at molybdenum surfaces

11:25-11:45 **PSLO-I-5 Yuki Hayashi (National Institute for Fusion Science, Japan)**

Study on effects of neutral particle behavior on detached plasma formation using linear plasma device and modeling

11:45-12:05 **PSLO-I-6 Hirohiko Tanaka (Nagoya University, Japan)**

Newly developed integrated transport code for detached plasma simulation

12:05-12:25 **PSLO-I-7 Satoshi Togo (The University of Tsukuba, Japan)**

Development of a plasma fluid model covering a range of coulomb collisionality by comparison with a particle-in-cell model

Room B

10:45-11:10 **B-KN-2 Yuzuru Ikehara (Chiba University, Japan)**

The feasibility of using ions and charges in the medical field

11:10-11:35 **B-KN-3 Mudtorlep Nisoa (Walailak University, Thailand)**

Low-temperature and thermal plasma research at PEwave, Walailak University

11:35-11:55 **B-I-4 Yun-Chien Cheng (National Yang Ming Chiao Tung University, Taiwan)**

Atmospheric-pressure plasma effects on cancer cells and RONS generation for medical applications

11:55-12:15 **B-I-5 Jun Sup Lim (Kwangwoon University, Republic of Korea)**

Effect of accumulated charge on the dynamics of plasma bullet propagation

Room C

10:45-11:10 **DX-KN-1 Young-Chul Ghim (Korea Advanced Institute of Science and Technology, Republic of Korea)** Ion flux reduction factor at the sheath edge as a function of ion-neutral collisions in low temperature Ar or He DC plasmas

11:10-11:30 **DX-I-9 Fumikazu Miwakeichi (The Institute of Statistical Mathematics, Japan)**
Quantification of causality among frequency modes in linear plasma using vector autoregressive models

11:30-11:50 **DX-I-10 Kotaro Yamasaki (Hiroshima University, Japan)**
Basis function analysis technique for the two-dimensional structure of fluctuation in magnetized plasma

11:50-12:10 **DX-I-11 Yuichi Kawachi (Kyoto Institute of Technology, Japan)**
Applications of conditional sampling technique to time series of experimental plasma data

12:10-12:30 **DX-I-12 Takuma Yamada (Kyushu University, Japan)**
Multiple correlation analysis of nonlinear dynamics in plasma turbulence

Room D

10:45-11:10 **S-KN-4 Geun Young Yeom (Sungkyunkwan University, Republic of Korea)**
Beam-assisted atomic layer etching

11:10-11:35 **S-KN-5 Sang Hoon Ahn (Samsung Electronics Co. Ltd., Republic of Korea)**
Past, present, and future plasma solutions to semiconductor challenges

11:35-11:55 **S-I-2 Satoshi Hamaguchi (Osaka University, Japan)**
Plasma-enhanced atomic layer processing for semiconductor processing

~~11:55-12:15 **GN-I-10 Ghayas Uddin Siddiqui (Jeju National University, Republic of Korea)**
Adsorptive removal of cationic and anionic dyes using nanocomposite of graphene oxide/zinc oxide from aquatic environment~~

12:15-12:35 **GN-I-11 Mineo Hiramatsu (Meijo University, Japan)**
3D-graphene networks: synthesis and applications

Lunch Break

Room A

13:25-13:55 **PL-7 Masahiro Horibe (National Institute of Advanced Industrial Science and Technology, Japan)** Near-future industrial innovation Digital transformation (DX) to Quantum transformation (QX)

13:55-14:25 **PL-8 Detlev Reiter (Heinrich-Heine-Universität Düsseldorf, Germany)**
Divertor detachment: Fusion plasma physics meets plasma chemistry

Room A

14:30-14:50 **PSLO-I-8 Hiroaki Nakamura (National Institute for Fusion Science, Japan)**
Verification of birth process of primordial organic molecules in the solar system from molecular clouds using molecular dynamics simulations

14:50-15:10 **PSLO-I-9 Yoshihisa Fujita (Nihon University, Japan)**

Angular momentum coupling of tilted gaussian beam with waveguide mode

15:10-15:30 **PSLO-I-10 Quan Shi (The University of Tokyo, Japan)**

A simple method for modifying the surface morphology of various semiconductors and its application in random lasing

Room B

14:30-14:50 **B-I-6 Roopesh Mohandas Syamaladevi (M. S. Roopesh) (University of Alberta, Canada)**

Applications of cold plasma technology in the agri-food industry

14:50-15:10 **B-I-7 Hiromasa Yamada (National Institute Technology, Nagano College, Japan)**

Behavior of gas flow and characteristics of atmospheric pressure plasma jet for bio-applications

15:10-15:30 **B-I-8 Katsuyuki Takahashi (Iwate University, Japan)**

Environmental control for plant growth and preservation using high-voltage pulsed discharges

Room C

14:30-14:50 **DX-I-13 Takashi Nishizawa (Kyushu University, Japan)**

Simultaneous inference of multiple plasma parameter profiles by utilizing transport properties

14:50-15:10 **DX-I-14 Eiichirou Kawamori (National Cheng Kung University, Taiwan)**

Information thermodynamics of plasma wave turbulence

15:10-15:30 **DX-I-15 Shih-Nan Hsiao (Nagoya University, Japan)**

On the mechanism of high-speed SiO₂ etching using hydrogen fluoride-contained plasmas at cryogenic temperature

Room D

14:30-14:50 **GN-I-12 Wei-Cheng Lin (Ming Chi University of Technology, Taiwan)**

Feasibility of applying non-thermal plasma to the degradation of pharmaceuticals in real medical wastewater

14:50-15:10 **GN-I-13 ChinWook Chung (Hanyang University, Republic of Korea)**

Novel plasma source for atomic scale processing

15:10-15:30 **GN-I-14 Ping-Yen Hsieh (Feng Chia University, Taiwan)**

Yttrium-based plasma etching resistant coating obtained by gas flow sputter deposition

Room A

15:30-16:00 Closing, Award Ceremony

Adjourn

Poster Presentation List

Oct. 17 (Tue) 9:10~11:40 Room B+C+D

P-1 Young-Gi Kim (Korea Institute of Fusion Energy, Republic of Korea)

Design of a Thomson scattering system for atmospheric plasma sources

P-2 Masayuki Tokitani (National Institute for Fusion Science, Japan)

Irradiation experiment of new type of divertor heat removal component fabricated by AMSB to LHD divertor plasma

P-3 Yuki Goto (National Institute for Fusion Science, Japan)

Theoretical issue of the electron cyclotron emission with decay process in a waveguide

P-4 Mamoru Shoji (National Institute for Fusion Science, Japan)

Simulation analysis of lithium transport in the peripheral plasma during impurity powder injection in the Large Helical Device

P-5 Sotaro Tsuru (Nagoya University, Japan)

Molecular dynamics simulation for elucidation of vacancy coalescence in tungsten crystal

P-6 Zhe Liu (University of Science and Technology of China, China)

Nanopatterning of Si by low-energy He plasma irradiation

P-7 Rongshi Zhang (Nagoya University, Japan)

Growth of micro-pillars on tungsten by helium plasma exposure with impurity gases

P-8 Long Li (University of Science and Technology of China, China)

Surface modification of ZrC dispersion-strengthened W under low energy He plasma irradiation

P-9 Ryutaro Kanno (National Institute for Fusion Science, Japan)

Probabilistic modeling of impurity transport based on the drift-kinetic equation

P-10 Naonori Okada (Tokai University, Japan)

2-D spectroscopic measurement of Balmer series in detached plasma with ICR heating

P-11 Keigo Yoshimura (Tohoku University, Japan)

Analysis of molecular activated recombination in hydrogen plasma produced in radio-frequency plasma source DT-ALPHA

P-12 Arimichi Takayama (National Institute for Fusion Science, Japan)

Diffusion Behavior of Adatom on Tungsten Surface Evaluated by Density Functional Theory Calculation

P-13 Gakushi Kawamura (National Institute for Fusion Science, Japan)

Weighted sum estimation of radiation power and toroidal asymmetry in LHD

P-14 Hiroyuki Takahashi (Tohoku University, Japan)

Evaluation of proton density ratio in a bucket-type ion source based on kinetic code plasma simulation and rate equation for hydrogen ions

P-15 Mitsuo Tajima (University of Hyogo, Japan)

Formation of fiber-form nanostructures and He bubbles/holes on tungsten surfaces by collisional helium arc plasma irradiation

P-16 Atsushi Ito (National Institute for Fusion Science, Japan)

Simulation development for the next stage of plasma-material interaction

P-17 Ryusei Koyama (Nihon University, Japan)

Visualization of metastable helium distribution using ghost imaging absorption spectroscopy

P-18 Hideki Kawaguchi (Muroran Institute of Technology, Japan)

Analysis of scattering of UV vortex from helix conductor using MoM

P-19 Wang Chenxu (Muroran Institute of Technology, Japan)

Evaluation of propagation of millimeter wave vortex using FDTD method

P-20 Yuta Uematsu (Nagoya University, Japan)

Observation of global structural changes in two-dimensional emission profiles associated with attached and detached plasma transitions

P-21 Masanori Yamamoto (Nagoya University, Japan)

Formation of helium-tungsten co-deposition layers and spectroscopic measurements during sputtering

P-22 Kazuma Emoto (University of Tsukuba, Japan)

A preliminary kinetic study on plasma flow in open magnetic systems using a quasi-one-dimensional particle-in-cell model

P-23 Kiho Tabata (Nagoya University, Japan)

Porous silicon produced with helium plasma for lithium-ion battery anode

P-24 Masahiro Katoh (Hiroshima University, Japan)

Phase structure and angular momentum of cyclotron radiation

P-25 Kazutaka Onoda (University of Tsukuba, Japan)

Spectroscopic measurement of microwave atmospheric pressure nitrogen plasma and the effect of vapor addition on the hydrophilicity of polystyrene surface

P-26 Kaito Miura (Tokai University, Japan)

Effect of argon additive in Cs-free negative hydrogen ion source

P-27 Ryo Sasaki (University of Tsukuba, Japan)

Correlation of tungsten surface morphology changes and deuterium absorption properties by deuterium plasma exposure with pulsed heat load

P-28 Kota Saito (University of Tsukuba, Japan)

The appearance of deuterium low temperature desorption at modified tungsten surfaces under helium pre-exposure conditions

P-29 Takuma Okamoto (University of Tsukuba, Japan)

Investigation of reaction process during combined seeding of nitrogen and hydrogen in divertor simulated plasma

P-30 Toseo Moritaka (National Institute for Fusion Science, Japan)

Electrostatic field calculation on a curved surface for gyrokinetic modeling of stellarator edge plasmas

P-31 Joseph Xinze Li (SOKENDAI, Japan)

Development of a kinetic transport model in broken flux surfaces

P-32 Yoshihide Shibata (National Institute of Technology, Gifu College, Japan)

Example of medical and engineering collaboration in data analysis in the field of the nuclear fusion

P-33 Kouta Ishigure (Meijo University, Japan)

Synthesis of graphitic carbon nitride on carbon nanowalls

P-34 Kodai Ishikawa (Meijo University, Japan)

Nitrogen addition to diamond using radical injection-CVD

P-35 Zhe-Wei Gong (Ming Chi University of Technology, Taiwan)

Defluorinated degradation of per/poly fluoro alkyl substances (PFAS) in water using non-thermal plasma

P-36 Jumma Kagami (Meijo University, Japan)

Immobilization of glucose oxidase on carbon nanowalls

P-37 Yukei Ishihara (University of Tsukuba, Japan)

Protein aggregation driven by atmospheric pressure plasma between needle electrode and surface of albumin solution

P-38 Mitsutaka Isobe (National Institute for Fusion Science, Japan)

Advances in development of quasi-axisymmetric stellarator at National Institute for Fusion Science

P-39 Yuto Yanagihara (National Institute for Fusion Science, Japan)

Low-temperature sintering of activated carbon using spark plasma sintering

P-40 Kazuki Nagahara (National Institute for Fusion Science, Japan)

Enhancement to gas puffing control system in LHD

P-41 Sho Nakagawa (National Institute for Fusion Science, Japan)

Surface observation on heat-treated activated carbon derived from unutilized biomass

P-42 Yang Ming (Nagoya University, Japan)

Ferroptosis induced by plasma-activated Ringer's lactate solution prevents oral cancer progression

P-43 Kae Nakamura (Nagoya University, Japan)

Plasma-activated solutions invigorate anti-tumor immune response in the intraperitoneal environments of ovarian cancer

P-44 Chih-Yu Ma (Louis Pasteur Center for Medical Research, Taiwan)

Prevalence of antibiotic-resistant E. coli in wastewater treatment plant effluent and the southern watershed of Lake Biwa

P-45 Dhammanoon Srinoum (Walailak University, Thailand)

Production of large volume plasma-activated water (PAW) for food and agricultural applications

P-46 Suttirak Kaewpawong (Walailak University, Thailand)

Development of 10 kW helicon plasma source for material-plasma interaction studies

P-47 Ridvee Taleh (Walailak University, Thailand)

Characteristics of high-power DC thermal plasmas for treatment of medical wastes

P-48 Akihiro Kajino (Meijo University, Japan)

Atmospheric pressure hybrid plasma jet for oxygen atom generation

P-49 In Je Kang (Korea Institute of Fusion Energy, Republic of Korea)

Analysis of plasma flow velocity in highly collisional plasma jet by using Mach probe for plasma aerosol deposition

P-50 Hyunyeong Lee (Korea Institute of Fusion Energy, Republic of Korea)

Design on versatile large area PECVD system for the assessment of plasma property

P-51 Jong Woo Hong (Sungkyunkwan University, Republic of Korea)

Etch characteristics of ITO using various hydrofluorocarbon gases

P-52 Hyun Woo Tak (Sungkyunkwan University, Republic of Korea)

Etching characteristics of SiON films with a low global warming potential gas replacing CF4

P-53 Hiroharu Kawasaki (National Institute of Technology, Sasebo College, Japan)

Dependence of the film qualities on the sputtered densities of the targets prepared by sputtering deposition with mixture powder targets

“Meet the Aomori” (in Japanese) 共同研究マッチング

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本部企画経営室＋工業、農林、水産、食品加工の4部門

*名古屋大学低温プラズマ科学研究センター

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