Conference Program

Oral Session < online Zoom Webinar >

| September 15 (Tuesday) | |
|----------------------------|---|
| | (Twestawy) |
| Opening 09:00-09:10 | Yasuaki KISHIMOTO (Director of IAE, Kyoto University) |
| Plenary Talk | |
| 09:10-10:00 | Chair: Yasuaki KISHIMOTO Future Technologies Opened by Low-temperature Plasma Sciences Masaru HORI (Nagoya University, Japan) |
| 10:00-10:15 | - Break - |
| Session 1 | |
| | Chair: Toshiyuki NOHIRA |
| 10:15-10:45 | Insights on the Premise of Growing Crystalline Silicon Solar Cells on the Benchtop Stephen MALDONADO (University of Michigan, USA) |
| 10:45-11:10 | Fuel Cell Research for Carbon Recycling Society Hironori NAKAJIMA (Kyushu University, Japan) |
| 11:10-11:40 | Probing the unique electrical and optical properties in one-dimensional carbon nanotubes and nanoribbons Sihan ZHAO (University of California at Berkeley, USA) |
| 11:40-13:10 | - Break - |
| Session 2 | |
| | Chair: Takashi NAGATA |
| 13:10-13:35 | Degradation of Cellulose Aggregate by using Infrared Free Electron Laser Takayasu KAWASAKI (Tokyo University of Science, Japan) |
| 13:35-14:05 | Bioethanol: Current Status and Perspectives Sadat Mohamed Rezk KHATTAB (Kyoto University, Japan, Al-Azhar University, Egypt) |
| 14:05-14:30 | Fundamental characteristics of biomass pyrolysis to improve pyrolysis- based technologies Haruo KAWAMOTO (Kyoto University, Japan) |
| 14:30-15:00 | - Break - |

| Poster Session | | |
|-----------------|---|--|
| 15:00-16:00 | Research Activities on Zero-Emission Energy Network < Remo > | |
| Session 3 | | |
| | Chair: Tatsuya HINOKI | |
| 16:30-16:55 | The Role of D-Li Neutron Sources in Fusion Materials Research and Development | |
| | Takeo MUROGA (National Institute for Fusion Science, Japan) | |
| 16:55-17:25 | Unlocking Reductions in the Construction Costs of Nuclear: A Practical Guide for Stakeholders Antonio VAYA SOLER (OECD Nuclear Energy Agency, France) | |
| | Timome vitti sezzit (ezez itavien zheigj rigenej, rianee) | |
| 17:25-17:40 | - Break - | |
| | | |
| Session 4 | Chair: Takashi MINAMI | |
| | Chair: Takashi MINAMI | |
| 17:40-18:05 | JT-60SA, the project and the current status Shunsuke IDE | |
| | (National Institutes for Quantum and Radiological Science and Technology, Japan) | |
| 18:05-18:35 | Towards thermonuclear fusion with the stellarator Wendelstein 7-X Marcin JAKUBOWSKI (Max Planck Institute for Plasma Physics, Germany) | |
| Closing Remarks | Toshiyuki NOHIRA (IAE, Kyoto University, Japan) | |

September 16 (Wednesday)

Satellite Meeting: Symposium on Exploring Broadband Energy Science 2020

< Main Building 5F: W-503E & Online>

Exploring Broadband Energy Science

| 13:00-13:05 | Opening address Toshiyuki NOHIRA (IAE, Kyoto University) |
|-------------|--|
| 13:05-13:30 | Optical Physics and Potential Applications in Atomically thin Materials for Light Energy Utilization Kazunari MATSUDA (IAE, Kyoto University) |
| 13:30-13:55 | Confinement of high energy density plasma using structured medium irradiated by high intensity laser based on "ultra-broadband energy science" Yasuaki KISHIMOTO (IAE, GES, Plasma UNIT, Kyoto University) |
| 13:55-14:20 | Macroporous SiC formation in anodization triggered by irradiation-induced lattice defects Kazuhiro FUKAMI (Graduate School of Engineering, Kyoto University) |
| 14:20-14:45 | Thermodynamic characteristics of laser ablation plasma in water and the analysis of clustering reactions Tetsuo SAKKA (Graduate School of Engineering, Kyoto University) |
| 14:45-15:10 | Nanostructured Metal Sulfides for Solar Cells to Improve the Photovoltaic Performance Takashi SAGAWA (Graduate School of Energy Science, Kyoto University) |
| 15:10-15:25 | - Break - |
| 15:25-15:50 | Low temperature on-surface growth of graphene nanoribbons Takahiro KOJIMA (IAE, Kyoto University) |
| 15:50-16:15 | What can we learn from the detection of bubbles? Takashi NAKAJIMA (IAE, Kyoto University) |
| 16:15-16:40 | Present Status and Future Perspective in KU-FEL Hideaki OHGAKI (IAE, Kyoto University) |
| 16:40-17:05 | Utilization of woody biomass with fungal enzymes Masato KATAHIRA (IAE, Kyoto University) |
| 17:05-17:30 | Novel reaction characteristics of spatially organized assembly of enzymes Takashi MORII (IAE, Kyoto University) |
| 17:30-17:55 | Electrodeposition of Crystalline Silicon Films in Molten Salts for Photovoltaic Applications Toshiyuki NOHIRA (IAE, Kyoto University) |
| 17:55-18:00 | Closing address Kazunari MATSUDA (IAE, Kyoto University) |