

January 22(Fri), 2016

10:00-17:30

Shiinoki Cultural Complex,
Garden Room, Ishikawa Prefecture

Invited speakers

Bernard Ratier

(University of Limoges, France)

"Organic and perovskite solar cells for autonomous sensor network"

Francisco Toja-Silva

(Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas (CIEMAT), Spain)

"Empirical-heuristic optimization of the building-roof geometry
for urban wind energy exploitation on high-rise buildings"

Jens Oluf Jensen

(Technical University of Denmark, Denmark)

"Fuel cells and electrolyzers
Recent progress at DTU Energy and the role in a sustainable society"

Eugen Stamate

(Technical University of Denmark, Denmark)

"Thin films for energy conversion and storage devices: status and perspective"

Taeho Lee

(Pusan National University, South Korea)

"Microbial fuel cell for energy saving and harvesting from wastewater treatment"

1st RSET International Symposium

Renewable Energy and Environmental Technology for Sustainable Society

Organized by Research Center for Sustainable Energy and Technology (RSET), Kanazawa University

Co-organized by Institute for Frontier Science Initiative, Kanazawa University

Contact: Research Center for Sustainable Energy and Technology (RSET), Kanazawa University

E-mail: rset-office@se.kanazawa-u.ac.jp

Introduction

Efficient use of natural resources is essential to establish sustainable society. Utilization of renewable energy is indispensable to curtail dependency on exhaustible resources like fossil fuel. Minimization of resource consumption and recycling of wastes is also important to achieve not only conservation of resources but also reduction of environmental burdens. Research Center for Sustainable Energy and Technology (RSET) has been established at Kanazawa University since 2011, as a core research center of research and development on basic technology for decentralized renewable energy infrastructure.

We organize the 1st international symposium to share the forefront knowledge on renewable energy and environmental technology with participants who are interested in and/or in charge of the related research. We invite distinguished researchers working on key technology of renewable energy and environmental technology. We hope this symposium to contribute to development of technology for secure and sustainable energy production to support a sustainable society in the future.

9:45	Registration
10:00	Opening address
10:10	Research Report 1: Low temperature process for photovoltaic cells based on organic and inorganic materials Tetsuya Taima (Kanazawa University, Japan)
10:30	Invited Lecture: Organic and perovskite solar cells for autonomous sensor network Bernard Ratier (University of Limoges, France)
11:10	Coffee break
11:20	Research Report 2: Research and development related to wind energy in RSET Takaaki Kono (Kanazawa University, Japan)
11:40	Invited Lecture: Empirical-heuristic optimization of the building-roof geometry for urban wind energy exploitation on high-rise buildings Francisco Toja-Silva (Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas (CIEMAT), Spain)
12:20	Lunch break
14:00	Research Report 3: Development of the high power direct formic acid fuel cell for the sustainable society using formic acid as energy carrier Takuya Tsujiguchi (Kanazawa University, Japan)
14:20	Invited Lecture: Fuel cells and electrolyzers. Recent progress at DTU Energy and the role in a sustainable society Jens Oluf Jensen (Technical University of Denmark, Denmark)
15:00	Coffee break
15:10	Research Report 4: Development of energy and environmental materials processing using multiphase plasmas Tatsuo Ishijima (Kanazawa University, Japan)
15:30	Invited Lecture: Thin films for energy conversion and storage devices: status and perspective Eugen Stamate (Technical University of Denmark, Denmark)
16:10	Coffee break
16:20	Research Report 5: Utilization of treated sewage for microalgae biomass production and its conversion to a biorefinery platform chemical Ryo Honda (Kanazawa University, Japan)
16:40	Invited Lecture: Microbial fuel cell for energy saving and harvesting from wastewater treatment Taeho Lee (Pusan National University, South Korea)
17:20	Closing address

Registration: Registration fee is free.

More information of Shiinoki Cultural Complex:
<http://shiinoki-geihinkan.jp/pdf/2014english.pdf>

Chair: Yoshihiko Uesugi (Faculty of Electrical & Computer Engineering, Kanazawa University)

Co-Chair: Tetsuya Taima (Institute for Frontier Science Initiative, Kanazawa University)

Program Chair: Ryo Honda (RSET, Kanazawa University)

Publications Chair: Takaaki Kono (RSET, Kanazawa University)

Arrangements Chair: Takuya Tsujiguchi (Faculty of Mechanical Engineering, Kanazawa University)

Secretary: Tatsuo Ishijima (RSET, Kanazawa University)

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