

The All-RIKEN Workshop 2019 /

Thursday 5 December 2019 - Friday 6 December 2019

Wako Branch

Scientific Programme

Opening Remarks □□□□□□□: 1 day

Dr. Yasumasa Takenaka (Chairman of SASC, Research Scientist, Bioplastic Research Team, CSRS)

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About the Scientists' Assembly Steering Committee □□□□□□ (SASC) □□□

Dr. Yasumasa Takenaka (Chairman of SASC, Research Scientist, Bioplastic Research Team, CSRS)

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Web Page of SASC:

<http://sasc.intra.riken.jp/sasc/sa/>

Oral Presentations □□□□□□

1).42 mW Light Power and 9.1% EQE from AlGaN-based 304 nm-Band UVB LEDs grown on AlN Template

Dr. Muhammad Ajmal Kha
Special Postdoctoral Researcher
Terahertz Quantum Device Research Team, RAP

2).Large fluctuations and the brain

Dr. Lukasz Kusmierz
Research Scientist
Laboratory for Neural Computation and Adaptation, CBS

3).Hierarchical nanostructures and novel nanomaterials produced by laser ablation in liquids

Dr. Dongshi Zhang
Postdoctoral Researcher
Advanced Laser Processing Research Team, RAP

4).Innovation on Metal-Mediated ¹¹C-Cyanation and Intracyclic ¹¹C-Labeling

Dr. Zhouen Zhang
Research Scientist
Laboratory for Chemical Biology, BDR

V.S.O.P.s □□□□□□□□

"Discovery Evening"

1.Development of Cu Spin Correlation in Overdoped La_{2-x}Sr_xCuO₄ Nanoparticles

Mr. Suci Winarsih

*International Program Associate
Meson Science Laboratory, RNC*

2. Tunable superconducting microwave beam splitter and switch on-chip

Ms. Iuliia Zotova

*International Program Associate
Superconducting Quantum Simulation Research Team, CEMS*

3. Hacking magnets with big data

Mrs. Marie-Therese Diana Huebsch

*International Program Associate
First-Principles Materials Science Research Team, CEMS*

4. Investigating the physiological role of Amyloid Precursor Protein

Mr. Oliver Robert Wilkes

*International Program Associate
Laboratory for Neurodiversity, CBS**

5. The bushing of bacterial flagellar motor analyzed by electron cryomicroscopy

Ms. Tomoko Yamaguchi

*Junior Research Associate
Laboratory for Supramolecular System Dynamics Research, BDR*

"General (Researcher)"

6. Trials to visualize unidentified metabolic pathways and enzymes

Dr. Yoko Chiba

*Research Scientist
Biofunctional Catalyst Research Team, CSRS*

7. Hyperspectral imaging and Terahertz Spectroscopic Imaging Technology as the Novel Techniques for Food

Dr. Chaohui Feng

*Special Postdoctoral Researcher
Terahertz Sensing and Imaging Research Team, RAP**

8. Electron Ion Collider

Dr. Yuji Goto

*Senior Research Scientist
Radiation Laboratory, RNC*

9. Study of protein stability by integral equation theory of molecular liquids

Dr. Yutaka Maruyama

*Research Scientist
Architecture Development Team, R-CCS*

10. In vivo calcium imaging with a single cell resolution using "cosmoscope", a new wide-field two-photon microscope

*Dr. Keisuke Ota ***
Research Scientist
Laboratory for Haptic Perception and Cognitive Physiology, CBS

11. Universality of Few Charged Particles
Dr. Christiane Heike Schmickler
Postdoctoral Researcher
Strangeness Nuclear Physics Laboratory, RNC

12. Memory of my victory and your defeat: Contributions of reward- and memory-related regions to the encoding of winning events in competitions with others
Dr. Hikaru Sugimoto
Postdoctoral Researcher
Cognitive Behavioral Assistive Technology Team, AIP

13. QM/MM in GENESIS: Anharmonic vibrational calculations of biomolecules
Dr. Kiyoshi Yagi
Senior Research Scientist
Theoretical Molecular Science Laboratory, CPR

14. EDGE: An Chisel-Based General Purpose Network on Chip Generator
Dr. Hao Zhang
Research Scientist
Laboratory for Computational Molecular Design, BDR

Poster Presentations

43 Posters.

You can get the this workshop programs in this web site.

The 20th Interdisciplinary Exchange Evening

Free food and drinks (sponsored by President, Executive Directors, Auditors, CPR, RNC, RAP, and RIKEN Mutual Benefit Society)

Live Performance by CPR Band

Opening Remarks: 2 day

Dr. Masafumi Jo (WG1 Leader of SASC, CPR)
WG1

About the Collaboration Seed Fund

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Dr. Yue Ma (WG4 "Researcher Exchange" Leader of SASC, CPR)
Ma Yue□□□□□□ □□□□□□□□□□□□□□ □□□□□□□□□□□□

Web Page of the Collaboration Seed Fund:
http://sasc.intra.riken.jp/events/evening/arw2018/collabo_seed_fund/

Special Talks□□□□□□

Chairperson□□□□
Dr. Tomohiro Hiraishi (Deputy Chairman, RSASC)
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Mr. Satoshi Tanaka (Corporate Officer, Senior Executive Manager, Research Facility Division, Dalton Corporation)
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Mr. Toshimitsu Masuda (General Manager, Business Promotion Department, Research Facility Division, Dalton Corporation)
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Web Page:
<https://www.dalton.co.jp>

About the Chief Scientist Assembly (CSA) Research Workshop□□□□□□□□□□

Dr. Tahei Tahara (Chair of CSA, Chief Scientist of Molecular Spectroscopy Laboratory, CPR)
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Short Award Talks□□□□□□□□□□□□□□□□ □□□□

1).Robust learning against label noise
"RIKEN BAIHO Awards " "
Dr. Gang Niu
Research Scientist (Imperfect Information Learning Team, Generic Technology Research Group, AIP)

2).A secreted mobile peptide mediates distant organ communications in drought stress response

"RIKEN BAIHO Awards"

Dr. Fuminori Tahahashi□□□ □□□

Research Scientist (Gene Discovery Research Group, CSRS)

3).Optimization algorithm of order/degree problem for network topology in parallel computer system

"RIKEN BAIHO Awards"

Dr. Masahiro Nakao□□□ □□□

Research Scientist (Programming Environment Research Team, R-CCS)

4).The right decision is not always right — What I think through the PiP development

"RIKEN BAIHO Awards"

Dr. Atsushi Hori□□ □□□

Senior Research Scientist (System Software Research Team, R-CCS)

5).Establishment of a new fate mapping system and identification of a molecular pathway of multipotent memory CD8+ T cells

"RIKEN BAIHO Awards"

Dr. Harumichi Ishigame□□□ □□□

Research Scientist (Laboratory for Tissue Dynamics, IMS)

6).Development of a new genomic technology for DNA replication analysis in single cells

"RIKEN EIHO Awards"

Dr. Hisashi Miura□□□ □□

Research Scientist (Laboratory for Developmental Epigenetics, BDR)

Dr. Ichiro Hiratani□□□ □□□□□**Dr. Saori Takahashi**□□□ □□□□

Invited Talks□□□□□□

Chairperson□□□□

Dr. Yasumasa Takenaka (Chairman, RSASC)

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1). Rational Design of Mixed-Anions Semiconductor Photocatalysts toward Solar Hydrogen Production

Dr. Ryu Abe (Professor, Kyoto University)

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Web Page of Abe Laboratory:

<http://www.ehcc.kyoto-u.ac.jp/eh41/home/abe/>

https://www.icems.kyoto-u.ac.jp/ja/www/abe_r/

2). Catalyst and process design for synthesis/decomposition of ammonia as an energy carrier

Dr. Katsutoshi Nagaoka (Professor, Nagoya University)

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Web Page of Nagaoka Laboratory:

<https://www.nagaokalab-catalystsystems-nu.net>

<http://www.appc.oita-u.ac.jp/physchem/>

Closing□□□□