

2nd RD20

Technical Sessions: September 29th ~ October 2nd, 2020
Leaders' Session: October 9th, 2020

- The aim of this conference is to promote global collaboration and innovation for realizing a decarbonized society by gathering together the topmost experts of the leading R&D institutes from the G20 members.
- In light of the recent COVID-19 pandemic, the 2nd RD20 will be held in two separate remote sessions: technical sessions focusing upon four specific themes, namely, renewable energy, next generation energy management system with batteries, hydrogen, and carbon capture, utilization and storage (CCUS), and a leaders' session aimed at achieving high level consensus for global cooperation toward a decarbonized society.
- The session is broadcasted online by using Cisco Webex. **We welcome anyone from all over the world to register to the conference from the URL below.**
<https://rd20.jp/registration/>

Technical Sessions

September 29th to October 2nd (JST, UTC+9)

✓ Timetable of each technical session

- Introduction of the session by moderator (5min)
- Introduction and short summary from each panelist (12min: 3min per panelist)
- Panel discussion (60min)*^{Note1}
- Q&A session (5min)*^{Note2}
- Summary (15min)

*Note1) Panel discussion will be held based on the presentation of the panelists recorded in advance. Watching the pre-recorded video of the panelists before each session is highly recommended. Registered participants will receive the connection details to the pre-recorded video a few days prior to each session.

*Note2) Questions & comments to the pre-recorded video will be gathered from Question form in advance. Participants of the live session can ask questions or give comments through Q&A option of the Cisco Webex.



✓ Program of Technical Sessions

September 29th 18:00 - 19:30 (JST, UTC+9)

◆ Theme1: Renewable Energy

Moderator: Ms. MATSUMOTO Mayumi (Associate-Professor, Univ. of Tokyo)

	Title of presentation	Speaker
1	Global Renewables Outlook	Dr. Dolf Gielen (IRENA)
2	<i>Emerging materials and devices (Metal halide perovskite)</i>	Prof. Henry Snaith (Oxford Univ.)
3	<i>New application for PV Everywhere</i>	Dr. Stefan Nowak (IEA)
4	<i>International Collaboration Scheme</i>	Dr. Tony Sample (JRC)

September 30th 12:00 - 13:30 (JST, UTC+9)

◆ Theme2: Next Generation Energy Management System with Batteries

Moderator: Dr. SAKAEBE Hikari (Chief Senior Researcher, AIST)

	Title of Presentation	Speaker
1	Role of battery storage in the next generation energy system	Dr. YOSHINO Akira (AIST)
2	<i>System Integration technology utilizing battery including resilience</i>	Dr. Anthony Burrell (NREL)
3	<i>Recycle/Reuse of Li-ion batteries</i>	Prof. Zhi Sun (CAS)
4	<i>Materials; characterization and analysis</i>	Dr. Jinghua Guo (LBNL)

October 1st 20:00 - 21:30 (JST, UTC+9)

◆ Theme3: Next Generation Energy Management System with Batteries

Moderator: Mr. Martin Tengler (Lead Hydrogen Analyst, BloombergNEF)

	Title of Presentation	Speaker
1	Research and development of hydrogen technology	Dr. YABE Akira (NEDO)
2	<i>Hydrogen Strategy in Germany and EU</i>	Dr. Christopher Hebling (FhISE)
3	Solid Oxide Electrolysis Overview of the technology and current developments at CEA	Dr. Julie Mouglin (CEA)
4	Strategy of Hydrogen Research in AIST	Dr. NANBA Tetsuya (AIST)

October 2nd 20:00 - 21:30 (JST, UTC+9)

◆ Theme4: CCUS

Moderator: Dr. NISHIO Masahiro (Innovation Coordinator, AIST)

	Title of Presentation	Speaker
1	Overview of Carbon recycling and CCS :Global context -Australian perspectives	Dr Paul Feron (CSIRO)
2	Carbon recycling technology with biomass utilization	Dr. SAKANISHI Kinuya (AIST)
3	Direct synthesis of fuel utilizing CO ₂ to mitigate GHG and photo-thermal process	Prof. Jorge Gascon (KAUST)
4	Research and Development of CO ₂ Utilization Technology in AIST	Dr. TAKAGI Hideyuki (AIST)

Leaders' Session

October 9th (JST, UTC+9)

Time (JST, UTC+9)		
14:00-14:03	Opening remarks	Japanese government representative (TBD)
14:03-14:06	Opening address	Mr. ISHIMURA Kazuhiko (RD20 Chair, AIST President)
14:06-14:13	Introduction of GZR ^{Note1}	Dr. YOSHINO Akira (AIST)
14:13-14:20	International collaboration scheme	ISHIZUKA Hiroaki (NEDO) ^{Note2}
14:20-14:27	Summary of ICEF ^{Note3}	Mr. TANAKA Nobuo (ICEF Chair)
14:27-14:34	Summary of Technical Sessions	Dr. OBARA Haruhiko (AIST)
14:34-15:44	Short presentation from 23 institutions	3min x 23 representatives
15:44-16:00	Leaders' Summary: Presentation ^{Note4} and Discussion	Mr. ISHIMURA Kazuhiko
16:00-16:10	Closing Remarks	(TBD)

Note1) GZR: Global Zero Emission Research Center, AIST (established in January 2020)

Note2) NEDO: New Energy and Industrial Technology Development Organization, Japanese public funding agency

Note3) ICEF: Innovation for Cool Earth Forum

Note4) Pre-recorded video of representatives' presentation can be seen on the internet in advance. Watching the pre-recorded video before each session is highly recommended.

Registered participants will receive the connection details to the pre-recorded video a few days prior to the session.

For further & latest information

RD20 official website : <https://rd20.jp/>

Related Conferences

Innovation for Cool Earth Forum (ICEF) Oct.7-8,2020 <https://www.icef-forum.org/>

TCFD Summit Oct. 9th, 2020 <https://tcf-summit.go.jp/indexEn.html>

LNG Production-Consumer Conference <https://www.lng-conference.org/english/>

International Conference on Carbon Recycling <https://carbon-recycling2020.go.jp/en/>

Hydrogen Energy Ministerial Meeting <https://hem-2020.nedo.go.jp/>

Host of RD20

National Institute of
Advanced Industrial Science and Technology (AIST)

Co-Hosts of RD20

Ministry of Education, Culture, Sports, Science and Technology (MEXT)
Ministry of Economy, Trade and Industry (METI)
Ministry of Environment
New Energy and Industrial Technology Development Organization (NEDO)