

福島リサーチカンファレンス(FRC)

原子力水素安全に関するワークショップ

2019年10月17日(木)～18日(金)

会場：ホテル蓬人館(富岡町)

10月17日(木)

- 9:00 送迎バス いわき駅→ホテル蓬人館  
10:10 受付  
11:00-11:15 オープニング  
11:15-12:00 基調講演  
12:00-13:20 昼食+ポスターセッション  
13:30-14:50 日本における水素安全にかかわる活動  
14:50-15:20 休憩+ポスターセッション  
15:20-17:30 海外における水素安全にかかわる活動  
18:00 送迎バス ホテル蓬人館→いわき駅  
18:30-20:00 レセプション(ホテル蓬人館)  
20:30 送迎バス ホテル蓬人館→いわき駅

10月18日(金)

- 8:00 送迎バス いわき駅→ホテル蓬人館  
9:10 受付  
9:30-11:50 技術セッション1-解析および実験的研究  
11:50-13:00 昼食+ポスターセッション  
13:00-15:00 技術セッション2-再結合触媒による水素濃度緩和  
15:00-15:20 休憩+ポスターセッション  
15:20-16:30 技術セッション3-水素燃焼  
16:30-16:40 閉会挨拶  
17:00 送迎バス ホテル蓬人館→いわき駅

Fukushima Research Conference (FRC)  
Workshop on Nuclear Hydrogen Safety (FRCHS2019)

17-18 October, 2019

@ Hotel Hojinkan

Draft Agenda

October 17<sup>th</sup>

9:00 Shuttle bus: Iwaki station (JR) to Hotel Hojinkan

10:10 Arrive at Hotel Hojinkan, registration

11:00 –11:15 Opening

- Welcome and opening address (Koji Okamoto, JAEA)
- Confirmation of two days agenda (JAEA)

11:15 –12:00 Keynote lecture

- Present status on nuclear hydrogen safety  
Ken Muramatsu (Tokyo City University and Chair of AESJ task force on advanced nuclear hydrogen safety)

12:00 –13:20 Lunch and poster session

13:30 –14:50 Lectures on hydrogen safety activities in Japan

- Present status and future directions on hydrogen safety management in long-term storage of radioactive wastes  
Masaaki Matsumoto (Mitsubishi Research Institute, Inc.)
- Present status on research and development of water radiolysis  
Ryuji Nagaishi (JAEA)

14:50 –15:20 Break and poster session

15:20—17:30 Lectures on hydrogen safety activities overseas

- Lessons learned in Finnish radwaste management strategy  
Kari Rasilainen (VTT Technical Research Centre of Finland Ltd)
- Activity on nuclear hydrogen safety program – SAMHYCO-NET -  
Ahmed Bentaib (Institut de radioprotection et de sûreté nucléaire, IRSN)
- Research and development on hydrogen combustion and explosion at Institut de Combustion  
Aérothermique Réactivité et Environnement, ICARE  
Nabiha Chaumeix ( ICARE)

18:00 Shuttle bus (to Iwaki station )

18:30—20:00 Reception (Hotel Hojinkan)

20:30 Shuttle bus (to Iwaki station )

October 18<sup>th</sup>

8:00 Shuttle bus : Iwaki station (JR) to Hotel Hojinkan

9:10 Arrive at Hotel Hojinkan, registration

9:30 –11:50 Technical session 1 - Analytical and experimental research

- Numerical analytical code development at Karlsruhe Institute of Technology  
Thomas Jordan (KIT)
- Numerical simulation of hydrogen behavior in storage vessels for radioactive waste  
Atsuhiko Terada (JAEA)
- Numerical simulation of turbulent buoyant behavior by algebraic turbulent mass flux model  
Hitoshi Sugiyama (Utsunomiya University)
- Experimental and analytical study on hydrogen release from geopolymer under gamma irradiation  
Makoto Arisaka (JAEA)

11:50 –13:00 Lunch and poster session

13:00 –15:00 Technical session 2 – Hydrogen mitigation using passive autocatalytic recombiner, PAR

- Experimental and numerical studies on passive autocatalytic recombiners (PARs) at  
Forschungszentrum Jülich, FZJ  
Ernst-Arndt Reinecke (FZJ)
- Performance of monolithic recombination catalyst  
Hirohisa Tanaka (KWANSEI GAKUIN University)
- Hydrogen behavior in a small-scale container with a passive autocatalytic recombiner  
Kazuyuki Takase (Nagaoka University of Technology)

15:00 –15:20 Break and poster session

15:20 –16:30 Technical session 3 – Hydrogen combustion

- Control of flame propagation at hydrogen combustion  
Satoshi Kadowaki (Nagaoka University of Technology University)
- Approach to analysis of hydrogen combustion inside of radioactive waste vessels using CFD  
softwares based on an open source “OpenFOAM”  
Thwethwe Aung (JAEA)

16:30 –16:40 Closing address

(Koji Okamoto, JAEA)

17:00 Shuttle bus (to Iwaki station)