

OS23: JSPS Core to Core program workshop

- Construction of an International research exchange center for ammonia combustion and materials toward the realization of a low-carbon society-

October 27, 2021

ROOM1

13:30-13:45 Opening and Introduction of the Core to Core program

OS23-1 Introduction of Each Base

- 13:45-14:25
- Institute of Fluid Science, Tohoku University, Japan : Kaoru Maruta
 - King Abdullah University of Science and Technology, Saudi Arabia : Mani Sarathy
 - University of Lyon, France : Nicolas Mary
 - University of Washington, U.S.A : Fumio S Ohuchi

OS23-2 What's Next for Machine Learning: Specialized AI Application in Research

14:25-14:45 *(Invited)*

Yue Luna Huang (University of Washington, USA)

OS23-3 Local Stabilization Dynamics of a Methane/ammonia Non-premixed Jet Flame Up to Liftoff

/OS22-1

14:45-15:00

Sophie Colson (Tohoku University, Japan), Manuel Kuhni (Université Claude Bernard Lyon 1, France), Akihiro Hayakawa, Hideaki Kobayashi (Tohoku University, Japan), Cedric Galizzi, Dany Escudie (Université Claude Bernard Lyon 1, France)

OS23-4 Ammonia Direct Combustion *(Invited)*

15:20-15:50

Hideaki Kobayashi (Tohoku University, Japan)

OS23-5 Quantitative Measurements in Ammonia-Hydrogen Turbulent Jet Flames at Elevated Pressure *(Invited)*

15:50-16:10

Guoqing Wang, Hao Tang, Chaobo Yang, Gaetano Magnotti, William L. Roberts, Thibault F. Guiberti (King Abdullah University of Science and Technology (KAUST), Saudi Arabia)

OS23-6 Experimental Characterisation of the Reactive Properties of Premixed Ammonia Flames *(Invited)*

16:10-16:30

Alka Karan, Guillaume Dayma (ICARE-CNRS / Université d'Orléans, France), Christian Chauveau (ICARE-CNRS, France), Fabien Halter (ICARE-CNRS / Université d'Orléans, France)

OS23-7 Effects of Combustor Wall Cooling on Liquid Ammonia Spray Combustion in a Micro Gas Turbine Combustor

/OS2-1

16:30-16:50

Ekenechukwu C. Okafor, Osamu Kurata (National Institute of Advanced Industrial Science and Technology (AIST), Japan), Hirofumi Yamashita (Tohoku University, Japan), Takahiro Inoue, Taku Tsujimura, Norihiko Iki (National Institute of Advanced Industrial Science and Technology (AIST), Japan), Akihiro Hayakawa (Tohoku University, Japan), Masahiro Uchida, Shintaro Ito (IHI Corporation, Japan), Hideaki Kobayashi (Tohoku University, Japan)