

OS18: Flow Dynamics of Diffusion-reactive and Phase Transition Systems

October 27, 2021

ROOM3

- OS18-1 **Interaction of Thermal Radiation and Natural Convection** (*Invited*)
17:10-17:40 Takuma Kogawa (National Institute of Technology, Hachinohe College, Japan)
- OS18-2 **Numerical Simulations of Jet Formation Induced by Gas Bubble Collapse Near the Micro Fiber Immersed in a Liquid**
17:40-18:00 Roman Fursenko (Institute of Theoretical and Applied Mechanics, Siberian Branch of the Russian Academy of Sciences / Institute of Applied Mathematics, Far Eastern Branch of the Russian Academy of Sciences, Russia), Vladimir Chudnovskii, Sergey Minaev (Institute of Applied Mathematics, Far Eastern Branch of the Russian Academy of Sciences, Russia), Junnosuke Okajima (Institute of Applied Mathematics, Far Eastern Branch of the Russian Academy of Sciences, Russia / Tohoku University, Japan)
- OS18-3 **Hydrogen Diffusion after the Sodium-Water Reaction**
18:00-18:20 Ai Suzuki, Masayuki Miyano, Ryuji Miura (Tohoku University, Japan)
- OS18-4 **Diffusive-Thermal Oscillations of Burner Stabilized CH₄ Flames as a Tool to Kinetics Verification**
18:20-18:40 Vladimir Gubernov, Vladimir Mislavskii (P. N. Lebedev Physical Institute, Russia), Viatcheslav Bykov, Ulrich Maas (Karlsruhe Institute of Technology, Germany)

October 28, 2021

ROOM3

- OS18-5 **Propagation of Hot Liquid Jet Inside the Finite Volume Under Local Laser Heating**
15:50-16:10 Sergey Mokrin (Institute of Applied Mathematics FEB RAS / Far Eastern Federal University, Russia), Dmitry Tereshko (Institute of Applied Mathematics FEB RAS, Russia), Alexander Kulik, Andrey Kraevskii (Far Eastern Federal University, Russia), Vladimir Chudnovskii (Institute of Applied Mathematics FEB RAS / V.I.II'ichev Pacific Oceanological Institute FEB RAS, Russia)
- OS18-6 **Numerical Simulations of the Flame Front Dynamics by Particles Method within G-equation**
16:10-16:30 Ostap Bryzgalov, Sergey Minaev (Institute of Applied Mathematics FEB RAS, Russia)
- OS18-7 **Effects of Chemical Reaction on Interfacial Instability of Miscible Fluid Flow in a Channel**
16:30-16:50 Surya Narayan Maharana, Manoranjan Mishra (Indian Institute of Technology Ropar, India)

October 28, 2021
ROOM2

- OS18-8 **Near Limit Flame Propagation in a Thin Layer Geometry at Low Peclet
17:50-18:20 Numbers** (*Invited*)
Mike Kuznetsov, Jorge Yanez (Karlsruhe Institute of Technology, Germany),
Fernando Veiga-López (Universidad Carlos III de Madrid, Spain)
- OS18-9 **The Normal Velocity of the Population Front in the “Predator-Prey” Model
18:20-18:40 Evgeniy Dats**, Sergey Minaev (Institute of Applied Mathematics FEB RAS,
Russia), Vladimir Gubernov (Lebedev Physical Institute RAS, Russia),
Junnosuke Okajima (Tohoku University, Japan)