Invited Speakers of RGD32 (As of 18th Jan 2022)

Plenary Lecture

Tai-Ping Liu Academia Sinica, and Stanford University, USA (Harold Grad Lecture)
Solving Boltzmann equation, Green's function approach
Wim Ubachs Vrije University, Netherlands (Lloyd Thomas Lecture)
Light extinction, Rayleigh-Brillouin scattering and absorption in the Earth's atmosphere, and in dilute and dense gases
Deborah Levin University of Illinois at Urbana Urbana-Champaign , USA (Graeme Bird Lecture)
Exploring the physics of multiscale flows at the molecular level
Byung-Chan Eu McGill University, Canada (GNU-ERC Lecture)
Thermodynamically consistent generalized hydrodynamic theory of flows far removed from equilibrium

Keynote Lecture

Murat Barisik Izmir Institute of Technology, Turkey "Law of the nano-wall" in nano-channel gas flows Stephane Colin University of Toulouse, France Molecular tagging - an experimental technique for velocimetry and thermometry in internal rarefied gas flows Zoltan Donko Wigner Research Centre for Physics, Hungary Kinetic effects in charged particle transport, gas breakdown, and electrical discharges Clinton P. T. Groth University of Toronto, Canada Development, numerical solution, and application of maximum maximum-entropyentropy-inspired moment closures for non non-equilibrium gaseous flows with shocks Yan Guo Brown University, USA Geometric correction in Knudsen layer expansion Seung Yeal Ha Seoul National University, South Korea A kinetic approach for collective dynamics Kentaro Hara Stanford University, USA Physics-based and data data-driven models of low low-temperature plasmas for aerospace applications Elena Kustova Saint Petersburg State University, Russia New challenges in modeling non-equili brium carbon dioxide flows Chang Liu HKUST, Hong Kong SAR, China A brief review of the direct modeling method: scheme construction, numerical property, and applications Duncan Lockerby University of Warwick, UK Simulating low-speed rarefied flows around 3D particulate and droplets

Raphael Marschall Southwest Research Institute, USA

To be added

Jason Rabinovitch Stevens Institute of Technology, USA A quick overview of NASA planetary exploration missions Thomas E. Schwartzentruber University of Minnes ota, USA Simulating shock wave physics from quantum chemistry Takashi Tokumasu Tohoku University, Japan Molecular dynamics simulations for nanoscale mass transport phenomena in polymer electrolyte fuel cells Lei Wu Southern University of Science and Technology, China Efficient and accurate deterministic solver for the Boltzmann equation: the fast spectral method and general iterative scheme Yonghao Zhang University of Strathclyde, Glasgow, UK Effect of confinement on non-equilibrium flow of dense gases