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Mikio Sakai

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Associate Professor

The University of Tokyo

Dr. Mikio Sakai is currently Associate Professor in the Resilience Engineering Research Center in The University of Tokyo. He earned his Ph.D. degree from The University of Tokyo in 2006. Then, he became Assistant Professor in 2007 and Associate Professor in 2008. He has been Visiting Reader at Imperial College London since 2016. He

extensively studies modeling of granular flows, multi-phase flows and the heat transfer, and the parallel computation techniques. He is a world-leading professor in computational granular dynamics, and hence has delivered lots of invited lectures in conferences. He holds important posts in powder technology community such as Director of Society of Powder Technology of Japan and Head of Simulation & Modeling Division in Association of Powder Process Industry and Engineering, JAPAN. At present, he is Associate Editor of *Chemical Engineering Science* and Editor of *Granular Matter*.

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Fluidization XVI



Fluidization XVI

May 26-31, 2019 Add to Calendar

Guilin Shangri-La Hotel, Guilin, China

The Fluidization XVI conference aims to bridge fundamental research on fluidization and emerging applications of fluidization and novel fluidization technologies. As the 16th iteration of this conference, it will bring together world renowned experts in the field.

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Fluidization is an important field of both fundamental research and broad industrial applications. Current understanding of the complex fluid-particle multiphase flow patterns, coupled with heat and mass transfer and chemical reactions, is still incomplete.

With a long established tradition, this series of conferences has been held all over the world tackling challenges and successes with the design and operation of fluidized beds and similar fluid-particle systems. This newest session will continue to play this role and stimulate the interplay between the academic, engineering and industrial communities to address the challenges for the future of fluidization technology.

Conference Co-Chairs

- Chi-Hwa Wang, National University of Singapore, Singapore
- Wei Ge, Institute of Process Engineering, CAS, China

Plenary Speakers

- Professor Hamid Arastoopour, Illinois Institute of Technology, USA
- Professor Jamal Chaouki, Polytechnique de Montréal, Canada
- Professor Marc-Olivier Coppens, University College London, United Kingdom
- Professor Benjamin Glasser, Rutgers University, USA
- Professor Stefan Heinrich, Technische Universität Hamburg, Germany
- Professor Christine Hrenya, University of Colorado, Boulder, USA
- Professor Hans Kuipers, Technische Universiteit Eindhoven, Netherlands
- Professor Gert Lube, Massey University, New Zealand
- Professor Fei Wei, Tsinghua University, China
- Professor Qingshan Zhu, Institute of Process Engineering, CAS, China

Keynote Speakers

- Professor Xiaotao Bi, University of British Columbia, Canada
- Professor Ronald W. Breault. National Energy Technology Laboratory. USA
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- Professor Alberto Di Renzo, University of Calabria, Italy
- Professor Qingjie Guo, Ningxia University, China
- Professor Masayuki Horio, Tokyo University of Agriculture and Technology, Japan
- Professor Qinfu Hou, Monash University, Australia
- Professor Navid Mostoufi, University of Tehran, Iran
- Professor Hervé Neau, CNRS, France
- Professor Wojciech Nowak, AGH University of Science and Technology, Australia
- Professor Raffaella Ocone, Heriot-Watt University, Scotland
- Professor J. Ruud van Ommen, Delft University of Technology, Netherlands
- Professor Christoph Pfeifer, University of Natural Resources and Life Sciences, Austria
- Professor Mikio Sakai, The University of Tokyo, Japan
- Professor Yansong Shen, University of New South Wales, Australia
- Professor Atsushi Tsutsumi, The University of Tokyo, Japan
- Professor Wei Wang, Institute of Process Engineering, Chinese Academy of Sciences, China
- Professor Charley Wu, University of Surrey, Unuted Kingdom
- Professor Qingang Xiong, General Motors, USA
- Professor Guangwen Xu, Shenyang University of Chemical Technology, China
- Professor Ji Xu, Institute of Process Engineering, Chinese Academy of Sciences, China
- Professor Wuqiang Yang, The University of Manchester, United Kingdom

Program Areas

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Modeling and Simulation				
Fluidized Bed Applications				
Fluidization in Nature				
Fluidization Poster Session				

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Journal Special Issue: Powder Technology

Powder Technology Special Issue for Fluidization XVI

Once accepted, abstract submissions to this conference are also encouraged to be developed into full papers and be submitted to Powder Technology for a special issue of this conference, which is

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be **June 30, 2019**. The intended authors should look for the option of "Special Issue of Fluidization XVI" in the submission system of Powder Technology and follow the steps prompted. Submit here >>

Featured Speakers



Hamid Arastoopour

Hamid Arastoopour is currently Henry R. Linden Professor of Engineering and director of the Wanger Institute for Sustainable Energy Research (WISER) at Illinois Institute of Technology. Dr. Arastoopour has made significant contributions to research and education in the areas of particle technology, Fluidization and computational fluid dynamics (CFD) motivated by energy and sustainability applications.

He is the recipient of the Thomas Baron Award in Fluid/Particle Systems, the Donald Q. Kern Award in Heat Transfer and Energy Conversion, the PTF Lectureship Award in Fluidization and... **Read more**



Xiaotao Bi

Dr. Xiaotao (Tony) Bi is a professor in the Department of Chemical and Biological Engineering at the University of British Columbia, and is a Fellow of Canadian Academy of Engineering. He has been an associate director of the Clean Energy Research Centre (www.cerc.ubc.ca), director of China-Canada Bioenergy Centre (c-cbc.center), and manager of the Fluidization Research Centre (www.frc.engineering.ubc.ca/). His current research has been focused on electrostatics of powders in fluidized beds and the... **Read more**



Jamal Chaouki

Prof. Chaouki is full professor from 1995 at Polytechnique, Montréal. He has supervised more than 120 researchers. He published more than 400 reviewed articles in refereed journals and in different reviewed proceedings, and more than 450 other scientific articles as well as edited 6 books. He has more than 22 patents on different processes. He is now editor of the Chemical Product and Process Modeling. He is also the director of te Biorefinery Center and a member of the Canadian Academy of Engineering. He has co-chaired 10 International Conferences including the 8th... **Read more**



Marc-Olivier Coppens

Marc-Olivier Coppens is Ramsay Memorial Chair and Head of Department of Chemical Engineering at UCL, since 2012, after academic posts at Rensselaer, USA, and TU Delft, Netherlands (1998-2006), where he became Professor in 2001. He holds chemical engineering degrees (1903: PhD 1996) from Chent University. Belgium was

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Niels Deen

Niels Deen is a Full Professor and Chair of the Power & Flow group in the Department of Mechanical Engineering at Eindhoven University of Technology (TU/e). He is also Executive Editor of Elsevier publication Chemical Engineering Science. Prof. Deen's expertise largely lies in the areas of process technology, multiphase reactors, computational fluid dynamics and experimental fluid dynamics. His research is concerned with the development of computational and experimental techniques for the study of multiphase reactors. This includes multiphase flow modeling of intensified contacting in... **Read more**



Benjamin Glaser

Prof. Benjamin J. Glasser, of Rutgers University, received his BS and MS in Chemical Engineering from University of the Witwatersrand, Johannesburg, South Africa and his PhD, also in Chemical Engineering, from Princeton University. **Read more**



Qingjie Guo

Professor Guo, full professor, is a director of State key laboratory of coal high-efficiency utilization and green chemical engineering, Ningxia University. He received the engineering bachelor degree (1989) for Chemical Engineering in East University of Science and Technology. In 1999, he was awarded Ph. D. in Chemical Engineering from Chinese Academy of Sciences. From 1999 to 2001, he spent two years in Department of Thermal Engineering, Tsinghua University as a postdoctral fellow. In July, 2001, he was granted a research fellowship from Alexander von Humboldt Foundation, Germany, who... **Read more**



Stefan Heinrich

Stefan Heinrich studied Process Engineering at the University of Magdeburg and received his Diploma in 1996 and his Ph.D. at the same university in 2000 in the field of fluidized bed spray granulation. From 2000 to 2002, he was Assistant Professor and from 2002 to 2008 Junior Professor at the University of Magdeburg, where he also received the Habilitation and the "venia legend" in particle technology in 2006. In 2008 he became full professor and director of the Institute of Solids Process Engineering and Particle Technology of the Hamburg University of Technology, Germany. Also in 2008 he... **Read more**

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Professor Masayuki Horio has long been a leading researcher in both theoretical fundamentals and applications of Fluidization Engineering, which is one of the multidisciplinary sub areas of Chemical Engineering providing a key innovation principle, 'fluidization', in catalytic cracking, solid fuel combustion/gasification, catalytic process for chemical feed-stocks, gas phase polymerization, silicon production, waste incineration and/or drug design, having a strong relationship with fluid mechanics, particle/powder technology and reaction/reactor engineering.

He has quite wide R&... Read more



Qinfu Hou

Dr. Qinfu Hou is an Australian Research Council (ARC) DECRA (Discovery Early Career Researcher Award) Fellow and Research Fellow in the Department of Chemical Engineering of Monash University Australia. He was awarded a PhD in 2012 at UNSW Australia, ME and BE in 2003 and 2000 respectively at Northeastern University of China. Dr Hou has published 70+ articles and secured more than \$2M AUD research funds. Dr Hou has also received various awards in the past, reflecting the recognition at different stages, and been invited to give plenary/keynote talks at different international... **Read more**



Christine Hrenya

Christine Hrenya is a Professor of Chemical Engineering at the University of Colorado at Boulder. She holds chemical engineering degrees from The Ohio State University (B.S. 1991) and Carnegie Mellon University (Ph.D. 1996).

Her interests lie in the field of multiphase and solids flows, using a combination of theory, simulation, and experiments. Recent emphases of the research program include multiphase flow instabilities, cohesive particles, and gas-solid heat transfer.

Prof. Hrenya currently leads a \$3.5M U.S. Department of Energy grant targeted... Read more



Hans Kuipers

Hans Kuipers graduated in 1985 at the department of Chemical Engineering of the University of Twente. In December of the same year he started with his Ph.D. study at the Reaction Engineering group of University of Twente on detailed micro balance modeling of gas-fluidized beds. In June 1990 he received his Ph.D. degree in Chemical Engineering and was appointed as assistant professor in the Reaction Engineering group headed by Prof. W.P.M. van Swaaij. In 1994 he was appointed as associate professor in the same group. In 1999 he became fulltime professor in Fundamentals of Chemical Reaction... **Read more**



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group Physical Volcanology and Geological Fluid Mechanics including the large-scale international eruption simulation facility PELE.

Gert's research expertise is in Natural Hazard science and Fluid Dynamics with a particular focus on the mechanisms behind transport, sedimentation and hazard impacts of geophysical mass flows and other types of natural and man-made granular-fluid flow systems. Gert's current research foci include the rheology of variably hot and fluidized... **Read more**



Navid Mostoufi

Navid Mostoufi is currently a Full Professor of Chemical Engineering at the University of Tehran. He holds a B.Eng. and M.Sc. degree in chemical engineering from Iran's University of Tehran, plus a Ph.D. in Fluidization from Canada's Ecole Polytechnique de Montréal. He has taught advanced mathematics and fluid mechanics courses for over 18 years. His research interests include process modeling, simulation and optimization, and fluidization. Professor Mostoufi has more than 270 publications in major international journals and conferences. He... **Read more**



Hervé Neau



Raffaella Ocone

Prof Ocone obtained her first degree in Chemical Engineering from the Università di Napoli, Italy and her MA and PhD in Chemical Engineering from Princeton University, USA. She holds the Chair of Chemical Engineering in the School of Engineering and Physical Sciences at Heriot-Watt University (HWU) since 1995. She is a Fellow of the Royal Academy of Engineering, the Royal Society of Edinburgh, the Institution of Chemical Engineers, and the Royal Society of Chemistry. In 2007 she was conferred the title of Cavaliere (Knight) of the Order of the Star of Italian Solidarity from the Italian... **Read more**



I Ruud van Ommen

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engineering to the scalable production of advanced, nanostructured materials. In 2011, he started an ambitious program (funded by an ERC Starting Grant) to... **Read more**



Christoph Pfeifer

Christoph is a Full Professor for Process Engineering of Renewable Resources at University of Natural Resources and Life Sciences, Vienna, Austria (BOKU). He is also the Principal Investigator for Advanced Biorefineri es, Chemistry&Materials (ABC&M) and Bioprocess Engineering doctoral schools there. He graduated as chemical engineer at Vienna University of Technology under supervision of Professor Hermann Hofbauer. He was responsible for several national as well as European projects with the main aim to improve fuel flexibility and efficiency of the dual fluidized bed steam... **Read more**



Alberto Di Renzo

Alberto Di Renzo graduated in Chemical Engineering in 2000 and earned a PhD in Chemical and Materials Engineering in 2004 from the University of Calabria (Unical). After visits to various institutions in the UK, from 2005 he serves as Senior Lecturer in numerical methods and process dynamics and control at Unical. Research interests have ever since been in developing fundamental understanding and the building blocks of advanced DEM and DEM-CFD modelling. His main contributions have been in progressing frictional-elastic contact models, drag force with four-way coupling and heat transfer.... **Read more**



Mikio Sakai

Dr. Mikio Sakai is currently Associate Professor in the Resilience Engineering Research Center in The University of Tokyo. He earned his Ph.D. degree from The University of Tokyo in 2006. Then, he became Assistant Professor in 2007 and Associate Professor in 2008. He has been Visiting Reader at Imperial College London since 2016. He extensively studies modeling of granular flows, multi-phase flows and the heat transfer, and the parallel computation techniques. He is a world-leading professor in computational granular dynamics, and hence has delivered lots of invited lectures in conferences... **Read more**



Yansong Shen

Dr. Yansong Shen is an Associate Professor in School of Chemical Engineering at University of New South Wales (UNSW) and Director of ProMO Lab. He obtained his BEng and MEng degrees in Northeastern University (China) and PhD degree in UNSW. His research interests include process modelling and simulation and its applications in

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Wei Wang is a Professor at the Institute of Process Engineering, Chinese Academy of Sciences. He holds chemical engineering degrees from Sichuan University, China (B.S. 1994) and University of Chinese Academy of Sciences (Ph.D. 2002). He is currently the deputy director of the State Key Laboratory of Multiphase Complex Systems, China.

His research interest lies in the field of multiscale modeling and computational fluid dynamics (CFD) for multiphase flows. Based on his fundamental work, he developed a commercial software EMMS. His method enables prediction of the choking instability... **Read more**



Haigang Wang

Haigang Wang is a professor and scientist in the Institute of Engineering Thermodynamics at the Chinese Academy of Sciences, where he also received his PhD in the same field. He was working with the University of Manchester as research associate during 2005 and 2010.

Haigang Wang's research interests include flow dynamics simulation and measurement of multi-phase flows, mathematical modeling and process control for fluidized bed drying processes, process tomography and 3D image reconstruction software developing, and monitoring and control for granulation, drying and coating... **Read more**



Fei Wei

Director of Beijing key lab of green chemical reaction engineering and technology, Fei Wei obtained his PhD in chemical engineering from China University of Petroleum in 1990. After a postdoctoral fellowship at Tsinghua University (China), he was appointed an associate professor in 1992 and professor of chemical engineering of Tsinghua University (China) in 1996.

His scientific interests are technological applications of chemical reaction engineering, multiphase flow, carbon nano materials, and sustainable energy. He has designed and successfully running over 30 industrial fluidized **Read more**



Charley Wu

Prof. Chuan-Yu (Charley) Wu is a Professor of Chemical Engineering at the Department of Chemical and Process Engineering, the University of Surrey, UK. He is currently an executive editor for Powder Technology, a leading peer reviewed journal on particle systems. He co-authored a monograph on "Particle Technology and Engineering" published by Elsevier in 2016 and edited two books entitled "*Discrete Element Modelling of Particulate Media*" and "*Particulate Materials: Synthesis, Characterisation, Processing and Modelling*" published by RSC publishing. He also... **Read more**

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Qingang Xiong

Dr. Qingang Xiong is currently a senior scientist at General Motors Corporation, USA, developing CFD capability for modeling vehicle fuel system. Dr. Xiong received his Ph.D. degree of Chemical Engineering in 2011 from Institute of Process Engineering, Chinese Academy of Sciences, majoring in HPC-aided CFD simulation of gassolid flows. After graduation, Dr. Xiong worked at Iowa State University, Oak Ridge National Laboratory, and Corning Incorporated, conducting multiscale CFD simulation of multiphase flows. Dr. Xiong has published more than 50 scientific articles and edited several... **Read more**



Guangwen Xu

Prof. Dr. Guangwen Xu, president, chair professor, and institute director of Shenyang University of Chemical Technology (SYUCT), an adjunct professor of Institute of Process Engineering (IPE), Chinese Academy of Sciences (CAS). He graduated from Tsinghua University for his Bachelor and from Chinese Academy of Sciences for his Doctor in Chem. Eng. He has worked in 2015-2017 as the director of Southwest Research and Design Institute of Chemical Industry, in 2006-2015 as a professor and a team leader in IPE, CAS, in 1996-2006 in Japan and Germany as, in succession, a NEDO industrial... **Read more**



Ji Xu

Ji Xu is an associate professor of chemical engineering at Institute of Process Engineering, Chinese Academy of Sciences where he also received his PhD. He is mainly engaged in multi-scale method to realize the virtual process engineering, especially for the gas-solid flow. His work includes establishment of high performance computing methods, including algorithm design of CPU/GPU coupled large-scale parallel computation of discrete particle methods, e.g. molecular dynamics (MD) and discrete element method (DEM).... Read more



Qingshan Zhu

Qingshan Zhu is a full Professor from 2002 at Institute of Process Engineering (IPE), Chinese Academy of Sciences (CAS), and is currently the deputy director of IPE CAS. His research interests include fluidization, process intensification, mineral roasting, nanostructural materials, etc. **Read more**



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fluidization and particle technology including several years at Shell in the Netherlands. With 400+ journal publications, 50+ patents, and over 200 graduate students and postdoctoral fellows supervised, he has worked on a very wide range of R&D projects, many from the industry. In addition to fundamental research, he is particularly active in technology... **Read more**

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