

The Thirty-Sixth International Symposium on Combustion will be held the week of July 31 – August 5, 2016 at the COEX, Seoul, Korea. Symposium Agenda: The technical program will consist of contributed papers, Work-in-Progress poster sessions, invited lectures and topical reviews as well as special perspectives from industry will be presented by eminent specialists.

Program Committee and Colloquia

Program Co-Chairs: Peter Glarborg, Technical University of Denmark; Assaad Masri, The University of Sydney

1. **REACTION KINETICS including the kinetics of hydrocarbons and oxygenated fuels, NO_x and SO_x, mechanism generation, reduction and simulation (informatics) of reaction systems.** T. Faravelli, Politecnico di Milano, Italy; T. Lu, University of Connecticut, USA; M. Olzmann, Karlsruher Institut für Technologie (KIT), Germany; S.M. Sarathy, KAUST, Saudi Arabia; B. Yang, Tsinghua University, China
2. **SOOT, NANOPARTICLES, PAH AND OTHER LARGE MOLECULES including the physical and chemical processes affecting their formation, growth, and destruction, synthesis of nanoparticles and nanotubes.** M. Kraft, University of Cambridge, United Kingdom and NTU, Singapore; H. Michelsen, Sandia National Laboratories, USA; P. Minutolo, Institute for Research on Combustion – CNR, Italy; C. Schulz, IVG, University of Duisburg-Essen, Germany; X. Zheng, Stanford University, USA
3. **DIAGNOSTICS including the development and application of diagnostic techniques and sensors for the understanding and control of combustion phenomena.** P.-E. Bengtsson, Lund University, Sweden; A. Dreizler, Technische Universität Darmstadt, Germany; N. Hansen, Sandia National Laboratories, USA
4. **LAMINAR FLAMES including experiments, theory, and simulations applied to premixed, non-premixed, and partially premixed flames along with their ignition, extinction, stabilization, instabilities, and interactions with flows.** S.K. Aggarwal, University of Illinois at Chicago, USA; J. Bergthorson, McGill University, Canada; Z. Chen, Peking University, China; V. Giovangigli, CNRS, France; D. Kyritsis, Khalifa University, United Arab Emirates; C.-J. Sung, University of Connecticut, USA
5. **TURBULENT FLAMES including experiments, theory, simulations applied to premixed, non-premixed, and partially premixed turbulent flames, and fundamental aspects of combustion dynamics.** M. Cleary, The University of Sydney, Australia; E.R. Hawkes, The University of New South Wales, Australia; K.Y. Huh, Pohang University of Science and Technology, Korea; M. Mansour, Cairo University, Egypt; E. Mastorakos, University of Cambridge, United Kingdom; R.W. Pitz, Vanderbilt University, USA; T. Schuller, CNRS and Ecole Centrale Paris, France
6. **SOLID FUEL COMBUSTION including fundamental aspects of combustion of solid fuels (e.g., coal, char, and biomass, including pyrolysis, gasification, and ash formation), as well as combustion of propellants and metals.** T.H. Fletcher, Brigham Young University, USA; G. Nathan, University of Adelaide, Australia; B. Peters, University of Luxembourg, Luxembourg; L. Tognotti, University of Pisa, Italy
7. **SPRAY, DROPLET AND SUPERCRITICAL COMBUSTION including experiments, theory, and simulations applied to droplets, sprays, atomization, and supercritical combustion.** O. Desjardins, Cornell University, USA; A. Kronenburg, University of Stuttgart, Germany; M. Mikami, Yamaguchi University, Japan; D. Roekaerts, Delft University of Technology, Netherlands
8. **DETONATIONS, EXPLOSIONS and SUPERSONIC COMBUSTION including pulse-detonation, constant volume combustion and scramjet engines.** L. Bauwens, University of Calgary, Canada; G. Ciccarelli, Queen's University, Canada; M. Lawes, University of Leeds, United Kingdom; P. Russo, Sapienza University of Rome, Italy
9. **FIRE RESEARCH including fundamental aspects of fires (in normal and reduced gravity), flame spread, combustion suppression as well as applications to building construction and urban/wildland fires.** N. Liu, University of Science and Technology of China, China; V. Novozhilov, Victoria University, Australia; G. Rein, Imperial College London, United Kingdom; A. Simeoni, University of Edinburgh, United Kingdom; A. Trouvé, University of Maryland, USA

10. **STATIONARY COMBUSTION SYSTEMS including combustion in fluidized beds, incineration, utility boilers, plants, and industrial applications.** J. Ballester, University of Zaragoza/LIFTEC, Spain; M. Costa, Instituto Superior Técnico, Portugal
11. **FORMATION AND CONTROL OF POLLUTANTS AND GREENHOUSE GASES including NO_x and SO_x, oxy-fuel combustion, chemical looping combustion, CO₂ capture processes.** M.U. Alzueta, University of Zaragoza, Spain; J.S. Lighty, University of Utah, USA; B. Nimmo, University of Sheffield, United Kingdom
12. **IC ENGINE COMBUSTION including modeling, simulation, and experiments on phenomenological aspects of IC engines (direct injection, spark ignition, Diesel, and low-temperature combustion (HCCI)), as well as fuels research and combustion dynamics (ignition, quenching) for this application.** M. Brear, University of Melbourne, Australia; D. L.S. Hung, UM-SJTU Joint Institute, Shanghai Jiao Tong University, China; L. Pickett, Sandia National Laboratories, USA; A. Pires da Cruz, IFP Energies nouvelles, France
13. **GAS TURBINE COMBUSTION including modeling, simulation, and experiments on phenomenological aspects of gas turbines (for propulsion and power generation), as well as fuels research and combustion dynamics (ignition, quenching, thermoacoustics) for this application.** L. Gicquel, CERFACS, France; C. Hassa, DLR, Germany; F. di Mare, Technische Universität Darmstadt, Germany; N. Noiray, ETH Zürich, Switzerland; W. Polifke, Technische Universität München, Germany
14. **NOVEL COMBUSTION CONCEPTS, TECHNOLOGIES AND SYSTEMS including mini- and microcombustors, catalytic combustion, mild combustion, plasma-aided combustion, hydrothermal reaction, and other novel combustion processes.** C. Cadou, University of Maryland, USA; C. Fotache, UTRC, USA; N. Il Kim, KAIST, Korea; T. Lee, University of Illinois at Urbana Champaign, USA; T. Ombrello, Air Force Research Laboratory, USA

SELECTION OF PAPERS FOR PRESENTATION: Authors **must** indicate their choice of Colloquium. The Colloquium Co-Chairs (CCCs) will solicit and evaluate written reviews in their topic area. The reviews will be sent to authors and a rebuttal will be requested. CCCs will recommend papers for presentation based on the reviews and rebuttal to assist the Program Co-Chairs (PCCs) in the assembly of the final Symposium program. All accepted papers will be arranged into parallel sessions for oral presentation. Publication in the *Proceedings of the Combustion Institute* is determined by the Proceedings editorial board, and is not guaranteed based on Symposium presentation selection. Evaluation of manuscripts for publication begins with reviewing the decisions of the CCCs and PCCs. Authors of papers considered for publication will be requested to submit a revision which will be reviewed by the editorial board, potentially consulting additional reviewers. Additional revisions may be requested during the process. Final publication decisions will then be made.

INSTRUCTIONS TO AUTHORS OF CONTRIBUTED PAPERS

Please read the instructions on the submission site carefully before submitting a paper.

Important Dates

3 December, 2015- Due date is midnight Pacific Standard Time (GMT-8hrs) for receipt of completed paper.

Week 28 March, 2015- Authors notified of acceptance for presentation at the Symposium.

WORK-IN-PROGRESS POSTERS: To provide a forum for presentation and discussion of work in progress, poster sessions will be scheduled to run concurrently with contributed oral sessions. Presentation in Work-in-Progress Poster Sessions will be determined on the basis of a **one-page abstract**. A full-length paper is not required. The posters presented in Work-in-Progress Sessions will not be published in the *Proceedings of The Combustion Institute*. The sessions will be organized by the Work-in-Progress Poster Co-Chairs: A. Farooq, KAUST, Saudi Arabia; S. Kook, The University of New South Wales, Australia; C. Sang Yoo, UNIST, Korea.

DUE DATE FOR SUBMISSION OF WORK-IN-PROGRESS POSTERS

21 April, 2015- Due date is midnight Pacific Standard Time (GMT-8 hrs) for receipt of abstracts.

16 May, 2016- Authors notified of decision for Work-in-Progress Posters.

INSTRUCTIONS FOR WORK-IN-PROGRESS POSTERS

Carefully follow all instructions on The Combustion Institute website (<https://www.combustioninstitute.org>)