



LOCATION AND TRAVEL: The 36th International Symposium on Combustion will be held at the COEX Convention Center, Seoul, Korea. The COEX is served by 17+ bus lines, 2 subway stops, and direct Airport Limousine connection to Incheon International (ICN) and Gimpo International (GMP) airports. ICN is the main airport 30 miles from Seoul while GMP is just 40 minutes away. The COEX is connected with three five-star hotels, Asia largest underground mall, a multiplex cinema, an aquarium, a K-pop center, a city air terminal and more. The climate is friendly in early August: the average daytime temperature is 28°C/82°F, but sometimes reaches into 30s°C/90s°F. However visitors should be prepared for the possibility of showers.

LOCAL ARRANGEMENTS: All the technical sessions, including the Opening and Farewell receptions, and poster sessions, will be held at the COEX Convention Center.

Registration will begin on Sunday afternoon in the COEX lobby. The Welcome reception will be held in the COEX Hall on Sunday evening.

On Wednesday afternoon, delegates will have the opportunity to visit Suwon Hwaseong Fortress, and Korean Folk Village, where an outdoor barbecue will be held. Thursday's banquet plans are still being finalized and more details will be provided on the website when they are available. Delegates will have a chance to say farewell to friends and colleagues at the Farewell Reception on Friday afternoon inside the COEX.

ACCOMMODATIONS: Special rates have been negotiated with the host hotels of InterContinental Seoul Coex, Grand InterContinental Seoul Parnas, Oakwood Premier Coex Center as well as hotels within walking distance from the COEX. Lower cost budget hotels will also be available.

Please refer to the Combustion Institute website, <https://www.combustioninstitute.org>, for updates and a link to the Symposium website when it is available.

THE THIRTY-SIXTH INTERNATIONAL SYMPOSIUM ON COMBUSTION will be held the week of July 31 – August 5, 2016 at the COEX, Seoul, Korea. Scientists, engineers, and others interested in combustion are invited to attend and participate in this biennial event. **SYMPOSIUM AGENDA:** The technical program will consist of contributed papers and Work-in-Progress poster sessions. Invited lectures and topical reviews 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.** Tiziano Faravelli, Politecnico di Milano, Italy; Tianfeng Lu, University of Connecticut, USA; Matthias Olzmann, Karlsruher Institut für Technologie (KIT), Germany; S. Mani Sarathy, KAUST, Saudi Arabia; Bin 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.** Markus Kraft, University of Cambridge, United Kingdom and NTU, Singapore; Hope Michelsen, Sandia National Laboratories, USA; Patrizia Minutolo, Institute for Research on Combustion – CNR, Italy; Christof Schulz, IVG, University of Duisburg-Essen, Germany; Xiaolin Zheng, Stanford University, USA
- 3. DIAGNOSTICS including the development and application of diagnostic techniques and sensors for the understanding and control of combustion phenomena.** Per-Erik Bengtsson, Lund University, Sweden; Andreas Dreizler, Technische Universität Darmstadt, Germany; Nils 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.** Suresh K. Aggarwal, University of Illinois at Chicago, USA; Jeffrey Bergthorson, McGill University, Canada; Zheng Chen, Peking University, China; Vincent Giovangigli, CNRS, France; Dimitrios Kyritsis, Khalifa University, United Arab Emirate; Chih-Jen 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.** Matthew Cleary, The University of Sydney, Australia; Evatt R. Hawkes, The University of New South Wales, Australia; Kang Y. Huh, Pohang University of Science and Technology, Korea; Mohy Mansour, Cairo University, Egypt; Epaminondas Mastorakos, University of Cambridge, United Kingdom; Robert W. Pitz, Vanderbilt University, USA; Thierry 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.** Thomas H. Fletcher, Brigham Young University, USA; Shuiqing Li, Tsinghua University, China; Graham Nathan, University of Adelaide, Australia; Leonardo Tognotti, University of Pisa, Italy
- 7. SPRAY, DROPLET AND SUPERCRITICAL COMBUSTION including experiments, theory, and simulations applied to droplets, sprays, atomization, and supercritical combustion.** Olivier Desjardins, Cornell University, USA; Andreas Kronenburg, University of Stuttgart, Germany; Masato Mikami, Yamaguchi University, Japan; Dirk Roekaerts, Delft University of Technology, Netherlands

8. **DETONATIONS, EXPLOSIONS and SUPERSONIC COMBUSTION including pulse-detonation, constant volume combustion and scramjet engines.** Luc Bauwens, University of Calgary, Canada; Gaby Ciccarelli, Queen's University, Canada; Malcolm Lawes, University of Leeds, United Kingdom; Paola 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.** Naian Liu, University of Science and Technology of China, China; Vasily Novozhilov, Victoria University, Australia; Guillermo Rein, Imperial College London, United Kingdom; Albert Simeoni, Exponent, Inc., USA; Arnaud Trouvé, University of Maryland, USA
10. **STATIONARY COMBUSTION SYSTEMS including combustion in fluidized beds, incineration, utility boilers, plants, and industrial applications.** Javier Ballester, University of Zaragoza/LIFTEC, Spain; Mário 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.** María U. Alzueta, University of Zaragoza, Spain; JoAnn S. Lighty, University of Utah, USA; Bill 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, thermoacoustics) for this application.** Michael Brear, University of Melbourne, Australia; David L.S. Hung, UM-SJTU Joint Institute, Shanghai Jiao Tong University, China; Lyle Pickett, Sandia National Laboratories, USA; António 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.** Laurent Gicquel, CERFACS, France; Christoph Hassa, DLR, Germany; Francesca di Mare, Technische Universität Darmstadt, Germany; Nicolas Noiray, ETH Zürich, Switzerland; Wolfgang 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.** Christopher Cadou, University of Maryland, USA; Catalin Fotache, UTRC, USA; Nam Il Kim, KAIST, Korea; Tonghun Lee, University of Illinois at Urbana Champaign, USA; Timothy Ombrello, Air Force Research Laboratory, USA

S ELECTION 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 might 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.

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

Week 28 March, 2016 Authors notified of acceptance for presentation at the Symposium.

For instructions on submission of papers go to: <https://www.combustioninstitute.org>

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: Aamir Farooq, KAUST, Saudi Arabia; Sanghoon Kook, The University of New South Wales, Australia; Chun Sang Yoo, UNIST, Korea.

DUE DATE FOR SUBMISSION OF WORK-IN-PROGRESS POSTERS

21 April, 2016

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>)