

LOCATION AND TRAVEL: The 34th International Symposium on Combustion will be held at Warsaw University of Technology, Poland, which is serviced by Warsaw Chopin Airport. Summers are generally beautiful and are not hot and humid. The average day time high in August is 23°C (73°F); the average night time low is 12°C (54°F).

LOCAL ARRANGEMENTS: All the technical sessions, including the Opening Welcome Ceremony, will be held on the campus of Warsaw University of Technology.

Registration will begin on Sunday in the Main Building of the University. The welcome reception will be held in the same location on Sunday evening.


On Tuesday a Chopin piano music concert will be performed. On Wednesday afternoon an outdoor barbecue will be held outside Warsaw. Thursday's banquet will be served in the Mazurkas Hotel. Delegates will have a chance to say farewell to friends and colleagues at the Farewell Reception on Friday afternoon inside the Main Building of the University.

ACCOMMODATIONS: Special rates have been negotiated with hotels within walking distance from the University. Lower cost university residences will also be available. Please refer to the symposium website for more details: <http://www.combustion2012.itc.pw.edu.pl>.

**July 29–August 3, 2012
Warsaw University of Technology
Warsaw, Poland**

**THIRTY-FOURTH INTERNATIONAL
SYMPOSIUM ON COMBUSTION**

**THE COMBUSTION INSTITUTE
5001 BAUM BOULEVARD, SUITE 635
PITTSBURGH, PA 15213-1851 USA**



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34TH INTERNATIONAL SYMPOSIUM ON COMBUSTION

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THE THIRTY-FOURTH INTERNATIONAL SYMPOSIUM ON COMBUSTION will be held the week of July 29–August 3, 2012 at Warsaw University of Technology, Warsaw, Poland. 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:

Robert Barlow
Sandia National Laboratories, USA

Frédérique Battin-Leclerc
CNRS, France

Kaoru Maruta
Tohoku University, Japan

- 1. REACTION KINETICS including the kinetics of hydrocarbon and oxygenated fuels, NO_x and SO_x, mechanism generation, simplification, reduction and informatics of reaction systems.** Kenneth Brezinsky, University of Illinois at Chicago, USA; Pierre-Alexandre Glaude, CNRS, France; Matthias Olzmann, Karlsruher Institut für Technologie, Germany; William J. Pitz, Lawrence Livermore National Laboratory, USA; Tamas Turanyi, Eötvös University (ELTE), Hungary
- 2. SOOT, PAH AND OTHER LARGE MOLECULES such as dioxins and fullerenes including the physical and chemical processes affecting their formation, growth, and destruction and synthesis of nanoparticles and nanotubes.** Maria U. Alzueta, University of Zaragoza, Spain; Peter Glarborg, Technical University of Denmark, Denmark; Fei Qi, University of Science and Technology of China, China; Angela Violi, University of Michigan, USA
- 3. DIAGNOSTICS including the development and application of diagnostic techniques and sensors for the understanding and control of combustion phenomena.** Frank Beyrau, Imperial College London, UK; Volker Ebert, Physikalisch Technische Bundesanstalt, PTB, Braunschweig and Technical University Darmstadt, Germany; Thomas B. Settersten, 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.** Françoise Baillet, CORIA/CNRS, France; Osamu Fujita, Hokkaido University, Japan; Alexander Konnov, Lunds Universitet, Sweden; Dimitrios Kyritsis, University of Illinois at Urbana-Champaign, USA; Charles McEnally, Yale University, USA; Sergey Minaev, Russian Academy of Sciences, Russia
- 5. TURBULENT FLAMES including experiments, theory, simulations applied to premixed, non-premixed, and partially premixed turbulent flames, and fundamental aspects of combustion dynamics.** Bénédicte Cuenot, CERFACS, France; Jonathan Frank, Sandia National Laboratories, USA; Ömer Gülder, University of Toronto, Canada; Heinz Pitsch, RWTH Aachen University, Germany; Dirk Roekaerts, Delft University of Technology, The Netherlands; Mamoru Tanahashi, Tokyo Institute of Technology, Japan
- 6. HETEROGENEOUS COMBUSTION and MATERIAL SYNTHESIS 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, and catalytic combustion.** Yei-Chin Chao, National Cheng Kung University, Taiwan; Mohamed Pourkashanian, University of Leeds, UK; Steven Son, Purdue University, USA; Margaret Wooldridge, University of Michigan, USA; Minghou Xu, Huazhong University of Science and Technology, China
- 7. SPRAY AND DROPLET COMBUSTION including experiments, theory, and simulations applied to droplets, sprays, atomization, and supercritical combustion.** J. Barry Greenberg, Technion–IIT, Israel; Mark Linne, Chalmers University of Technology, Sweden; Masato Mikami, Yamaguchi University, Japan
- 8. DETONATIONS, EXPLOSIONS and SUPERSONIC COMBUSTION including pulse-detonation and scramjet engines.** Mitsuo Koshi, University of Tokyo, Japan; Svetlana M. Starikovskaia, Ecole Polytechnique, France; D. Scott Stewart, University of Illinois at Urbana-Champaign, USA
- 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.** Ritsu Dobashi, The University of Tokyo, Japan; Carlos Fernandez-Pello, University of California, Berkeley, USA; Oleg Korobeinichev, Institute of Chemical Kinetics and Combustion, Russia

- 10. STATIONARY COMBUSTION SYSTEMS and ENVIRONMENTAL IMPACT including combustion in fluidized beds, incineration, utility boilers, plants and industrial applications.** Bassam Dally, The University of Adelaide, Australia; Reginald Mitchell, Stanford University, USA; Leonardo Tognotti, University of Pisa, Italy
- 11. IC ENGINE AND GAS TURBINE COMBUSTION including modeling, simulation, and experiments on phenomenological aspects of engines (direct injection, spark ignition, diesel and HCCI) and gas turbines (for propulsion and power generation), as well as fuels research for these applications.** Michael C. Drake, General Motors Research and Development, USA; Simone Hochgreb, University of Cambridge, UK; Suresh Menon, Georgia Institute of Technology, USA; Gladys Moréac, Renault, France; Eiji Tomita, Okayama University, Japan
- 12. NEW TECHNOLOGY CONCEPTS, REACTING FLOWS AND FUEL TECHNOLOGY including mini- and micro-combustors, mild combustion, plasma-aided combustion, oxy-fuel combustion, hydrothermal reaction, and other novel combustion processes.** Mara de Joannon, IRC-CNR, Italy; Yiguang Ju, Princeton University, USA; Nam Il Kim, Chung-Ang University, Korea; Kenichi Takita, Tohoku University, Japan

SELECTION OF PAPERS FOR PRESENTATION: Authors **must** indicate their choice of Colloquium. Colloquium Co-Chairs will solicit and evaluate written reviews in their topic area and recommend papers for presentation. All accepted papers will be arranged into parallel sessions. Publication in the Proceedings of The Combustion Institute is determined by the Proceedings editorial board, after peer-review, and is not guaranteed based only on Symposium presentation selection.

INSTRUCTIONS TO AUTHORS OF CONTRIBUTED PAPERS

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

January 3, 2012 Due date is midnight Pacific Standard Time (GMT-5hrs) for receipt of completed paper.
Week of April 9, 2012 Authors notified of acceptance for presentation at the Symposium.

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

It is the authors' responsibility to ensure that the paper is received by midnight Pacific Standard Time of the due date of January 3, 2012. In anticipation that some authors may have unforeseen difficulties in finalizing or transmitting their papers, the electronic submission site will remain open until midnight Pacific Standard Time on January 6, 2012 to receive late papers. These will be reviewed depending on the response to the Call, the availability of reviewers and the discretion of the Program Co-Chairs.

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, Marian Gieras, Warsaw University of Technology, Poland and Franz Winter, Vienna University of Technology, Austria.

DUE DATE FOR SUBMISSION OF WORK-IN-PROGRESS POSTERS

April 27, 2012 Due date is midnight Pacific Standard Time (GMT-5hrs) for receipt of abstracts
May 25, 2012 Authors notified of decision for Work-in-Progress Posters.

INSTRUCTIONS FOR WORK-IN-PROGRESS POSTERS

Please carefully follow all instructions on The Combustion Institute website

For submission of a one page abstract go to: <https://www.combustioninstitute.org>