



9th International Conference on Computational Fluid Dynamics

July, 11-15, 2016, Istanbul, Turkey



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CALL FOR PAPERS

ICCFD9 2016 Conference

ICCFD, a biennial event, is the merger of two important CFD conferences: the International Conference on Numerical Methods in Fluid Dynamics, ICNMFD (since 1969) and International Symposium on Computational Fluid Dynamics, ISCFD (since 1985). The first ICCFD conference was held in 2000 in Kyoto, the second in 2002 in Sydney, the third in 2004 in Toronto, the fourth in 2006 in Ghent, the fifth in 2008 in Seoul, the sixth in 2010 in St. Petersburg, the seventh in 2012 in Hawaii, the eighth in 2014 in Chengdu, and the ninth conference, ICCFD9, will be held in Istanbul, Turkey in July 11-15, 2016.

Scope

ICCFD9 is devoted to all innovative aspects of CFD, basic and applied. Subjects of interest include but are not limited to:

- **Innovative algorithm:** Higher-order methods, Implicit iterative methods, Parallel algorithms, Grid generation/adaptation, Alternate meshing methods, Meshless methods, Immersed boundary methods, Level-set methods, Smooth Particle Hydrodynamics (SPH), Lattice Boltzman methods, Verification & Validation methods
- **Advances in modeling of flow physics:** Steady/unsteady flows, Compressible/incompressible flows, Flows in porous media, Shock waves, Hypersonic flows, Combustion/Reacting flows, Non-Newtonian flows, Rarefied flow, Instability/transitional flow, Turbulence modeling, DNS/LES, Boundary layer stability, Vortex dynamics, Multi-phase/Multiphysics flows,
- **Advanced multidisciplinary applications:** Aeroacoustics/Noise, Turbomachinery, Flow control, Fluid-structure interaction, Multidisciplinary optimization, Bio-medical fluid mechanics, Bio-fluid dynamics, Environmental fluid mechanics, MHD/Space applications, Large scale applications, GPU based applications
- **History of CFD**

ICCFD9 Plenary Speakers

- **Prof. Shigeru Obayashi**, Director, Institute of Fluid Science, Tohoku University, Japan
Topic: "Multi-objective Design Exploration (MODE) with CFD"
- **Dr. Cetin Kiris**, NASA Ames Research Center, California, USA
Topic: "Challenges and Progress in Computational Aerosciences"
- **Prof. Georges-Henri Cottet**, Grenoble University, France
Topic: "Recent advances with Semi-Lagrangian particles for complex fluid and fluid-structure dynamics"
- **Assoc. Prof. Metin Muradoglu**, Dept. of Mechanical Engineering, Koc University, Istanbul, Turkey
Topic: "Computational Modeling of Soluble Surfactant in Multiphase Flows"
- **Assoc. Prof. Mehmet Şahin**, Dept. of Aerospace Eng., Istanbul Technical University, Turkey
Topic: "An arbitrary Lagrangian Eulerian (ALE) approach for moving-boundary problems with large displacements and rotations"

Important dates

- End of Abstract Submission*.15 February 2016
- Notification of Acceptance.....24 April 2016
- Early Registration.....1 May-30 June 2016
- Final Paper Deadline**.....1 July 2016

*Abstracts must be 1-2 pages in length, no more than 2 papers with the same author or co-author will be accepted

** Submission procedure, abstracts and paper templates are available at: iccf9.itu.edu.tr

Paper submission

- A PDF version of the final accepted paper up to 25 pages will be published online
- A selected number of papers from the conference will be chosen to be peer-reviewed and published in a book
- Some selected papers will be recommended to a selected journal



Conference Co-Chairs

Alim Rüstem ASLAN (Space Systems Design and Test Laboratory, Istanbul Technical University)

Ayşe Gül GÜNGÖR (Fluid Mechanics Research Center, Istanbul Technical University)

İlyas Bedii ÖZDEMİR (Fluids Group, Istanbul Technical University)





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Young CFD Investigator Award - In memory of Prof. Kunio Kuwahara

The award is the contribution from the committee members of "International Nobeyama Workshop in honor of Professor Kunio Kuwahara" that was held several years ago for his remarkable contribution to CFD and international collaborations.

Professor Kunio Kuwahara undertook pioneering numerical studies on the vortex method in 1970s. From then to the early nineties, he performed numerical analyses on three-dimensional unsteady incompressible and compressible complex flows using his own supercomputers with co-workers and members of his private research institute, ICFD in Tokyo. For his contributions to CFD, Professor Kuwahara received Awards from the Japan Society of Automobile Engineers and the Japan Society of Mechanical Engineers in 1992, the Computational Mechanics Achievement Award from the Japan Society of Mechanical Engineers in 1993, and the Max Planck Research Award in 1993. He received the Computational Mechanics Award from the Japan Society of Mechanical Engineers again in 2008. Professor Kuwahara also supported the establishment of the Japanese Society of Fluid Mechanics. Professor Kunio Kuwahara, passed away on 15 September 2008, at the age of 66.

Conditions for Applications:

- Candidates shall be 35 years old or younger.
- Selection is based on both the quality of the paper and the presentation. Therefore, the presentation of the paper by the candidate is required.
- Recipient will be selected by the ICCFD executive board members from the presenting applicants.
- The award will be presented during the conference banquet on Thursday evening.
- A Plaque and a grant of \$300 will be presented as the award following an introductory presentation of the background of award by Prof. K. Fujii.

Exhibition

CFD related companies of all sizes are invited to exhibit their products and services in the designated area of the Grand Cevahir Hotel during the ICCFD9. Approximately over 300 participants from many countries and areas are expected to attend the conference. This will be a great opportunity to present your products and services. Particularly, there will be B2B meetings with Turkish Area Actors, including government, academics and industry.

Cost: 1200 USD for 1 square meter

Venue

ICCFD9 will be held at Grand Cevahir Hotel, Şişli, Istanbul. Grand Cevahir is Turkey's first 5 stars congress hotel which has really made a difference in the sector. The Hotel's congress hall is the biggest in Europe. The hotel is located at one of the business centers of Istanbul and is very close to downtown and shopping centers Nişantaşı and Taksim. Hotel has free round-trip shuttle service to nearby metro station, providing convenient urban transportation network.

For accommodation, travel and pre&post tour arrangements:

Conmark Tourism and Organization

Web www.conmark.com.tr

E-mail cembilgin@conmark.com.tr

Phone : +90 212 241 45 41

Fax: + 90 212 241 45 42



REGISTRATION:

- **Full price:** US \$550 (early bird, before 1st of July, 2016)
US \$600 (after 1st of July 2016)
US \$650 (on site)

Includes: Proceedings, reception, city excursion, banquet, lunch and refreshments

- **Student price:** US \$275 (early bird, before 1st of July, 2016)
US \$300 (after 1st of July 2016)
US \$325 (on site)

Includes: Proceedings, reception, city excursion, lunch and refreshments. Students may separately purchase tickets for the banquet

- **Accompanying guest:** US \$250 (early bird, before 1st of July, 2016)
US \$300 (after 1st of July 2016)
US \$300 (on site)

Includes: Reception, city excursion, banquet, some refreshments

Registration will be open early April 2016

BOOK OF ABSTRACTS WILL BE AVAILABLE AT THE MEETING

Turkish Airlines is the official airline of ICCFD9 and special discounts are offered on certain booking classes. In order to proceed with the online booking tool for Turkish Conventions, please visit the link on the ICCFD9 website and use the event code **098TKM16** under delegate section



Let us meet all in the breath taking city of Istanbul where old meets new and modern meets history; a really inspiring city!

Photo credit: Orhan Durgut



Contact: iccf9@itu.edu.tr

For more information, please visit our website: iccf9.itu.edu.tr