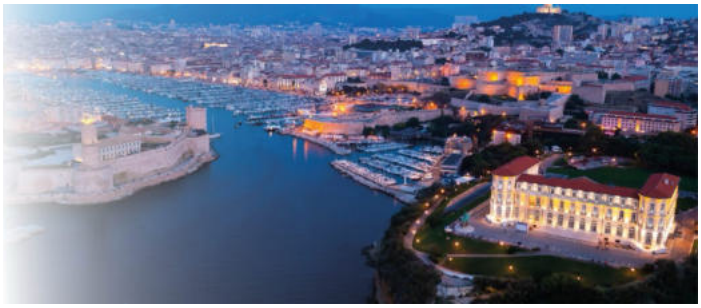
14th Mediterranean Combustion Symposium MCS-14

Marseille – France

20-24 June 2027

Second Announcement



https://www.mcs2027.fr/



Program co-chairs

- **Prof. Nevin Selçuk,** Department of Chemical Engineering, Middle East Technical University, Ankara – TURKEY. selcuk@metu.edu.tr
- **Prof. Mohy S. Mansour**, Mechanical Power Engineering Department, Cairo University, Cairo – EGYPT. mansourm@aucegypt.edu
- **Prof. Andrea D'Anna**, Department of Chemical, Materials and Industrial Production Engineering, Università degli Studi di Napoli Federico II, Naples – ITALY. andrea.danna@unina.it

Advisory board

- **Prof. Ayman Elbaz**, Clean Energy Research Platform- King Abdullah University of Science and Technology –KAUST, Thuwal, Saudi Arabia.
- **Prof. Ömer L. Gülder**, University of Toronto, Institute for Aerospace Studies, Toronto - Canada.
- **Prof. Assaad Masri**, University of Sydney, School of Aerospace Mechanical & Mechatronic Engineering, Sydney, Australia
- **Prof. Epaminondas Mastorakos**, Engineering Department, University of Cambridge, Cambridge, England.
- **Prof. William Roberts**, Clean Energy Research Platform- King Abdullah University of Science and Technology –KAUST, Thuwal, Saudi Arabia.
- **Prof. Zeynep Serinyel,** Université Bourgogne Europe, Nevers, France
- **Dr. Franco Tamanini**, Consultant, Boston, USA.

Local organizers

Dr. **Laurent Selle**, French National Centre for Scientific Research, France
Dr. Pierre Boivin (CNRS)
Prof. Christophe Almarcha (Aix-Marseille University)
Prof. Jean-Louis Consalvi (Aix-Marseille University)

Fourteenth Mediterranean Combustion Symposium Overview

The symposium is the fourteenth in a series on combustion and related topics, held by the scientific communities from countries around the Mediterranean. The first Mediterranean Combustion Symposium was held in Antalya, Turkey, June 1999, the second took place in Sharm El-Sheikh, Egypt, January 2002, the third in Marrakech, Morocco, June 2003, the fourth in Lisbon, Portugal, October 2005, the fifth in Monastir, Tunisia, September 2007, the sixth in Corsica, France, June 2009, the seventh in Chia Laguna, Cagliari, Italy, September 2011, the eighth in Cesme, Turkey, September 2013, the ninth in Rhodes, Greece, June 2015, the tenth in Napoli, Italy, September 2017, the eleventh in Tenerife, Spain, June 2019, the twelfth was held in Luxor, Egypt, January 2023, and the thirteenth in Corfu, Greece, June 2025.
The Mediterranean Combustion Symposium has grown in the years becoming an important conference in Combustion. The quality of many of the accepted papers is considered to be within the top published papers in most combustion journals. The objective of the conference is to give combustion scientists, particularly engineers and students from the Mediterranean area, the opportunity to get together for the dissemination of state-of-the-art advances in combustion research and to enhance future collaborative research activities between scientists from different geographic areas. All topics and all the scientific/technological approaches in the combustion field are pertinent to this Symposium.
The organizing committee and the colloquia co-chairs are composed of international experts in various disciplines of combustion.
The technical program will consist of invited lectures by eminent specialists from all over the world, oral presentation of the contributed papers, flash presentations, and posters of work-in-progress.

High-quality papers will be selected for post-conference publication in well-known combustion journals as was done for the previous symposia. We are pleased to announce that

the Combustion Institute has offered another publication pathway in new CI Proceedings to be issued in odd-years.
The Symposium is structured so as to maximize contact and interactions and includes an interesting social program.

INVITED KEYNOTE SPEAKERS

- **Frédérique Battin-Leclerc**
  CNRS research director, Nancy, France
- **Ömer L. Gülder**
  University of Toronto Institute for Aerospace Studies (UTIAS) Canda
- **Assaad Masri**
  Sydney University, Australia
- **Heinz Pitsch**
  Institute of Combustion Technology, Aachen University, Germany
- **Viktor Scherer**
  Ruhr University Bochum Faculty of Mechanical Engineering, Germany

CONTRIBUTED PAPERS

Submission

Submit the full paper in PDF format by email to: website https://www.mcs2027.fr/
For any problem please contact: mcs2027@imft.fr

Instructions

Prospective authors please follow the instructions carefully before submitting a paper.
The instructions are on the website: https://www.mcs2027.fr/
The authors should select one of the following tracks:

i. **MCS presentation only:** This track for papers to be presented during the MCS14 without further follow-up for post conference publication in special issues of selected journals. Check the website for paper template and size.

ii. **PROCI-oy publication:** This track for papers to be selected for publication in the PROCI-oy (odd year proceedings of the Combustion Institute. Authors should agree that papers not selected for the PROCI-oy will be forwarded to special issues, depending on quality and journal conditions. The decision for either the PROCI-oy or the SI will be announced after the MCS14. Presentation during the MCS14 is mandatory for publication. Check the website for paper template and size. Submissions are full papers up to 8 pages in length. Note that that PROC-oy has modified its policy regarding paper length from 8 to 6 pages. So, authors intending to submit to PROCI-oy are advised to submit 6 pages following the PROCI-oy template, excluding the references. The main text begins immediately following the abstract, novelty and significance statement, keywords, and corresponding author note with this page numbered 1. The main text is up to six pages so may continue until the bottom of page numbered 6. This is followed by references on unnumbered page(s). In exceptional circumstances, the authors may request an extended length of two additional pages, so main text ending at the bottom of page numbered 8, with separate justification. Requests for extended length are more likely to be approved at the revision stage than for the initial submission.

iii. **Special Issue "SI":** This track for papers to be selected for special issues of selected journals. The decision for the SI will be announced after the MCS14. Presentation during the MCS14 is mandatory for publication. Check the website for paper template and size.

iv. **Mini-Symposium:** This track for papers to be selected for Mini-Symposium colloquia of the MCS14. Papers of Mini-Symposia will be reviewed and top-quality papers will be selected for SI of some selected journals. The publication decision for the SI will be announced after the MCS14. Presentation during the MCS14 is mandatory for publication. Check the website for paper template and size.

Deadlines

December 8th, 2026: Submission of full paper
January 11th, 2027: Notification of acceptance

Selection procedure

Authors are encouraged to indicate their choice of track, and Colloquium topic, as listed below. Colloquium Co-Chairs and Program Co-Chairs will coordinate the review process of the manuscripts in their topic area. They will review the papers or solicit and evaluate written reviews of the papers. For manuscripts that cannot be placed in one of the Colloquium areas, reviews will be coordinated by the Program Co-Chairs.

Publication

The accepted papers for all tracks will be available during the Symposium on flash memory.
Publications will follow one of the tracks ii-iv, listed above, as follows:
Track ii: PROCI-oy,
Track iii: Special Issues of top journals as they were at the previous symposia,
Track iv: Special Issues of selected journals related to the topics of the Mini-Symposia.
For further information please visit our website: https://www.mcs2027.fr/

WORK IN PROGRESS PRESENTATION/FLASH PRESENTATION

Submit the abstract in PDF format to the following email (select one option: WIP with flash presentation – WIP without flash presentation – Flash presentation only).

Instructions

The Symposium organizes 3-minute flash presentations for the WIP. In addition, Flash presentations are also offered without WIP posters. The authors can submit: WIP poster without Flash presentation, or WIP poster with Flash presentation, or Flash presentation only. The title, the authors and their affiliations and the text must fit in one page typed single space with 12 pt Times New Roman font. The maximum size of the text must be 164x230 mm. Authors' names and affiliations must be centered under the title at the top of the page.

Deadlines

March 21st, 2027: Submission of abstract
April 4th, 2027: Notification of acceptance

Publication

The WIP and Flash presentations abstracts will be available during the Symposium on flash memory.

Selection procedure

The program committee Co-Chairs will select the appropriate works for poster and Flash presentations, which will be carried out in parallel with oral colloquia of contributed papers. Authors are encouraged to indicate their colloquium choice during submission through the website.

PRE-CONFERENCE WORKSHOP

10th Workshop on Measurement and Computation of Turbulent Spray Combustion (TCS10), 20th June 2027

For more details check the following website: https://www.mcs2027.fr/

SYMPOSIUM COLLOQUIA

COMBUSTION FUNDAMENTALS

1 Gas-Phase Reaction Kinetics
2 Heterogeneous Combustion
3 Flame Dynamics, Transport Processes
4 Detonations
5 Turbulent Combustion Fundamentals

COMBUSTION RESEARCH TOOLS

6 Diagnostics
7 Numerical Combustion
8 Machine Learning and AI in Combustion

COMBUSTION APPLICATIONS

9 Fires
10 Explosion Hazards, Detonation Applications, and Supersonic Combustion
11 Gas Turbines and Rocket Combustion
12 Internal Combustion Engines
13 Energy Storage and Alternative Renewable Fuels

COMBUSTION IMPACT AND MITIGATION

14 Emissions Mitigation
15 Low-Carbon Technologies
16 Soot formation and nano particles

SPECIAL MINI-SYMPOSIA

17 Thermoacoustic Combustion Instabilities
18 Metal Fuels

Registration

Please visit the website for details: https://www.mcs2027.fr/

Venue

Please visit the website for details: https://www.mcs2027.fr/