

The 2nd Announcement

5th International Conference on Matter and Radiation at Extremes (ICMRE 2020)

May 25 - 29, 2020

Xi'an, Shaanxi, China

The 5th International Conference on Matter and Radiation at Extremes (ICMRE 2020) will be held in Xi'an, Shaanxi, China on May 25 – 29, 2020. Supported by the journal Matter and Radiation at Extremes (MRE), ICMRE is a serial conference convened annually since 2016 when MRE was launched. ICMRE 2016, ICMRE 2017, ICMRE 2018 and ICMRE 2019 were held successfully in Chengdu, Beijing, Qingdao and Hefei, respectively. Attendance at ICMRE generally varies from 200 to 300, including international attendees from about 10 countries. The goal of ICMRE is to bring together scientists from all over the world to exchange ideas and discuss latest achievements in the field of matter and radiation at extreme conditions. ICMRE2020, hosted by the Institute of Applied Physics and Computational Mathematics and Shaanxi Normal University, will provide a forum to discuss the latest results of physics, technology and applications in the area of matter and radiation at extremes. We look forward to your participation in the ancient city of Xi'an in 2020!

The details of ICMRE2020 can be explored on the website:

http://icmre2020.aconf.org.

The abstract submission and conference registration are now open online. Please download the abstract template on the website and upload the abstract to complete the submission. Presentations and papers will be welcomed on theoretical, computational, and experimental research on the following topics:

- Fundamental Physics at Extremes
 - Atomic physics
 - Quantum electrodynamics
 - Nuclear physics with lasers
 - High-field laser-matter interaction
- Laser and Particle Beam Fusion
 - Laser fusion
 - Plasma optics
 - Laser-plasma interaction
 - Hydrodynamic instability



- Magnetized plasmas
- Laser-driven compact neutron sources and its applications
- Magnetic Confinement/Driven Fusion
 - Spherical Tokmak
 - o Advanced stellarator configuration
 - Plasma-wall interaction
 - Toroidal/linear configurations
 - o Z-pinch
 - Magnetically assisted inertial confinement fusion
- High Energy Density Physics
 - Laboratory astrophysics
 - Radiation by plasmas
 - Transport phenomena
 - o Emission and absorption of X-ray radiation from laser-plasmas

Satellite workshop

Title: Kinetic and magnetic field workshop

Chairs: Vladimir Tikhonchuk, Stefan Weber

Date: May 25th, 2020

Important Dates

Abstract submission deadline: Feb. 29th, 2020

Registration date: May 25th, 2020

Conference starting date: May 26th, 2020

Registration Fee

Regular: ¥2,000 RMB

Student/Retired Scholar/Companion: ¥1,000 RMB

Awards

Young Scientist Award

- The MRE Young Scientist Award winner receives
 - -A trophy and a certificate;
 - -Cash prize of Y10,000 RMB;
 - -A formal invitation to publish on Matter and Radiation at Extremes.
- o Eligibility Criteria
 - -The applicant should be younger than 35 years old on Jan. 1, 2020;
 - -The applicant should be the presenting author (first or corresponding



author) of original research which has not been published and is not under consideration for publication elsewhere by the end of ICMRE2020.

-The theme of the research work should be within the scope of ICMRE2020 conference.

The applicant must submit an extended informative abstract on the original research (2000-3000 words, including representative figures) in DOC (DOCX) or PDF format on https://icmre2020.aconf.org/. The online submission system is open now. Please go to "Submit Paper" and then check "Young Scientist Award" and follow the instructions in the navigator.

Best Poster Award

Any contributors for poster presentation are welcome to apply for the Best Poster Award. Please remember to select the checkbox of "Best Poster Award" when submitting the abstract.

Call for Papers

Supporting journal *Matter and Radiation at Extremes (MRE)* is open for submission on https://mre.peerx-press.org/.

Access for detailed information about MRE:

https://aip.scitation.org/journal/mre

Hosts

Institute of Applied Physics and Computational Mathematics, Beijing, China Shaanxi Normal University, China

Co-Hosts

Matter and Radiation at Extremes
Institute of Fluid Physics, China Academy of Engineering Physics, China
Laser Fusion Research Center, China Academy of Engineering Physics, China

Chairs

General Chairs: Weiyan Zhang, Jean-Luc Miquel

Local Chairs: Jianguo Wang, Shixian Qu

International Technical Committee

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Tikhonchuk, M. Vranic, Jianguo Wang, Yuhong Xu, Yongtao Zhao

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Yang, Songbin Zhang

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Matter and Radiation at Extremes

In recent years, significant scientific advances have been made in the field of matter and radiation at extremes. Matter and Radiation at Extremes (MRE) is committed to the publication of original research and comprehensive and in-depth review papers in all areas of experimental and theoretical physics on matter and radiation at extremes. It is a peer-reviewed, fully open-access, bimonthly journal. Up to now, MRE has published more than 125 quality papers, with more than 600 citations and over 170,000 downloads worldwide. It has been indexed in SCIE, WoS, Scopus and DOAJ databases. Beginning from 2019, MRE is co-published by AIP Publishing to increase its global impact and reach.

Learn more about MRE on its homepage: http://mre.aip.org.

