



The First Announcement of the 3rd International Conference on Matter and Radiation at Extremes (ICMRE2018) — Call for Papers

Dear Colleagues,

We are pleased to announce that the abstract submission and conference registration are now open online for the 3rd International Conference on Matter and Radiation at Extremes (ICMRE2018). The conference is hosted by **Science and Technology on Plasma Physics Laboratory, Laser Fusion Research Center, CAEP** and **Qingdao University**. It will take place in Qingdao, China from May 6 to 11, 2018.

The details of ICMRE2018 can be found on the website:

<http://www.mre.org.cn/icmre2018.html>

This conference is supported by the journal **Matter and Radiation at Extremes (MRE)**. MRE, published by CAEP, 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 deputed in 2016, with about 50 high standard articles published and 40,000 downloads worldwide by now. Learn more about MRE on its homepage: www.journals.elsevier.com/matter-and-radiation-at-extremes.

ICMRE is a series conference convened periodically every year since 2016, with topics focused on MRE's scope, aiming to provide a new forum for scientists and engineers from all over the world to exchange opinions and latest achievements in the field of matter and radiation at extreme conditions. The 1st (ICMRE2016) and 2nd conferences (ICMRE2017) were held successfully in Chengdu and Beijing, China, respectively. Attendance at ICMRE generally varies from 200 to 300, including international attendees from about 10 countries.

We are waiting for you sharing the beautiful scene of Qingdao, China next May! Come and join us in the fantastic beach party with Physics, Beer and Happiness!

Prof. Shao'en Jiang

On behalf of the Local Organizing Committee

Important dates:

Abstract Submission Deadline: Jan. 15th, 2018

Acceptance Notification date: Jan. 31th, 2018

Registration fee:

Regular: ¥ 4,000 RMB

Student: ¥ 2,500 RMB

Companion: ¥ 1,500 RMB

Topics:

- **Laser-and Particle Beam Fusion, Magnetic Driven Fusion**

Laser fusion physics

Particle beam fusion physics

Z-pinch fusion physics

Experiments and diagnostics

Other fusion approaches

- **Fundamental Physics at Extremes**

Atomic physics, nuclear physics and plasma physics at extremes

Radiation- and high energy particle generation

High pressure materials science

Ultra-intense laser plasma interactions

Laser accelerator

- **Laser and Pulsed Power Technology**

High power laser technology

Ultra intense laser technology

Pulsed power technology

High power microwave/millimeter-wave/terahertz technologies

Related numerical simulation and computation technology

General Chair: Weiyan Zhang (China Academy of Engineering Physics, China)

Co-Chairs: Jie Zhang (Chinese Academy of Sciences, China)

E.M. Campbell (University of Rochester, USA)

Local Organizing Shao'en Jiang (Laser Fusion Research Center, CAEP)

Committee Chairs: Shaoping Zhu (Science and Technology on Plasma Physics Laboratory,
Laser Fusion Research Center, CAEP)

International Technical Committee:

Dieter H.H. HOFFMAN, Stephan WEBER, Ke LAN, Robert BINGHAM, Vadim V. BRAZHKIN, Sebastijan BREZINSEK, E.M. CAMPBELL, Jianjun DENG, Yongkun DING, Daniel EAKINS, Eugene GRABOVSKI, Xiantu HE, Bjorn M.HEGELICH, Javier HONRUBIA, Per JONSSON, Predrag KRSTIC, Sergey LEBEDEV, Yutong LI, Jie LIU, Igor V.LOMONOSOV, Victor MALKA, Yitzhak MARON, Hokwang MAO, Kunioki MIMA, Georg MUELLER, Masakatsu MURAKAMI, Andreas NEUBER, Bucur NOVAC, Rafael RAMIS, Edl SCHAMILOGLU, Peter J.SPILLER, Phillip C.STANCIL, Naresh THADHANI, Raj K.THAREJA, Jianguo WANG, Qiang WU, Yuhong XU, Ping YAN, Xueqing YAN, Yongtao ZHAO, Wanguo ZHENG

Co-hosts:

Institute of Fluid Physics, CAEP

Institute of Applied Physics and Computational Mathematics

Matter and Radiation at Extremes (Journal)

Peking University

Xi'an Jiaotong University

IFSA Collaborative Innovation Center

Sponsors:

Chinese High Energy Density Physics Society, Chinese Physics Society

Chinese Pulsed Power Society, Chinese Nuclear Society

Chinese Society on Computational Physics, Chinese Nuclear Society

Science Challenge Program

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The Beautiful City of Qingdao

Qingdao, a beautiful seaside city, is located on the west coast of the Pacific Ocean and at the southern tip of the Shandong Peninsula, China. The city is bordered on the south and east by the Yellow Sea and on the north and west by the inland.



Qingdao has rich historic and cultural heritage. It is one of the cradles of Chinese Taoism. Human settlement dates back to 5,000—6,000 years ago, which has left us with the rich and colourful Neolithic culture. There're two national historical streets and 144 cultural heritage sites under national, provincial or municipal protection in the city. It has been awarded Cultural City of East Asia. The China International Children's Film Festival, China

International Violin Competition and China Film Society of Performing Art Award Ceremony are held in Qingdao and the Oriental Movie Metropolis of Wanda Group is also being built here. Therefore, Qingdao is reputed as the "City of Film & TV" and "Island of Music".



The red roofs, green trees, blue sea, and azure sky form a bright and colorful picture of Qingdao. The city is sometimes known as the Switzerland of the Orient.

Surrounded by the sea on three sides, Qingdao attracts many tourists with its charming seascape. Sights like the Eight Passes Villas, the Zhan Bridge, Wusi Square, Mt. Laoshan, will help you remember Qingdao. Just walking on the sand and listening to the surf breaking on the beach becomes enjoyable.

Qingdao offers food with distinctive flavors--especially seafood. So take this chance to enjoy the delicious seafood of Qingdao. Also, Qingdao is the home of the famous Qingdao (Tsingtao) Beer.

Have a bottle of pure Qingdao Beer right here in Qingdao!



Qingdao is an important Olympic city and China's Sailing City. The city hosted the sailing events for the 29th Beijing Olympic Games and the 13th Paralympic Games in 2008. Afterwards, the Volvo Ocean Race, Clipper Round the World Yacht Race and ISAF Sailing World Cup were also held here in succession. Meanwhile, the International Sailing Week is an annual event in August.