

The 2nd Announcement

The 6th International Conference on Matter and Radiation at Extremes

ICMRE2023

June 5-9, 2023

Zhuhai, China

The 6th International Conference on Matter and Radiation at Extremes (ICMRE2023) will be held from June 5th to 9th, 2023 in Zhuhai, China. ICMRE2023 will be hosted by Science and Technology on Plasma Physics Laboratory and the Department of Astronomy, Beijing Normal University, and will be supported by the journal [Matter and Radiation at Extremes \(MRE\)](#).

The detail of ICMRE2023 can be explored on the website:

<http://icmre2023.mre.org.cn>.

I. Topics covered

Fundamental Physics at Extreme Light

- Fundamental Physics
- Particle Acceleration
- Radiation source
- QED effect and nuclear physics

Inertial Confinement Fusion Physics

- Implosion and instabilities
- Holraum and laser-plasma interaction
- Drivers, targets and diagnostics

- Alternative ICF and pulsed power technology

Radiation and Hydrodynamics

- Hydrodynamic instability
- High energy density science and warm dense matter

High Pressure Physics and Materials Science

- High-pressure geo-science
- Hydrogen and high-energy density material
- Functional materials and physics
- Transitions
- Dynamic behavior of materials under compression

II. Plenary speakers

1	Catherine McCammon	University of Bayreuth, Germany
2	Han Wang (王涵)	Institute of Applied Physics and Computational Mathematics, China
3	Chang Hee Nam	Center for Relativistic Laser Science, IBS, South Korea
4	Jiayong Zhong (仲佳勇)	Beijing Normal University, China
5	Olga Rosmej	GSI Darmstadt, Germany
6	Dong Yang (杨冬)	Laser Fusion Research Center, China Academy of Engineering Physics, China
7	Andrea Ciardi	Sorbonne University and Paris Observatory, France
8	Meng Wang (王勔)	Institute of Fluid Physics, China Academy of Engineering Physics, China
9	Quanhua Sun (孙泉华)	Institute of Mechanics, Chinese Academy of Sciences, China
10	Yutong Li (李玉同)	Institute of Physics, Chinese Academy of Sciences, China

11	Vladimir Tikhonchuk	France; ELI-Beamlines; Institute of Physics CAS; Czech Republic and CELIA; University of Bordeaux
12	Taiwu Huang (黄太武)	Shenzhen Technology University, China
13	Eugene Gregoryanz	The University of Edinburgh, UK
14	Jorge Vieira	Instituto Superior Tecnico, Lisbon, Portugal
15	Yanming Ma (马琰铭)	Jilin University, China
16	Konstantin Khishchenko	Joint Institute for High Temperatures RAS; Moscow Institute of Physics and Technology; South Ural State University; Federal Research Center of Problems of Chemical Physics and Medicinal Chemistry RAS, Russia

III. MRE Forum

Theme: Metallization and Superconductivity of Hydrogen

Date and Time: 10:00-11:20, June 9, 2023

Chair: Ho-kwang Mao

Panel speakers:

Ho-kwang Mao, Shanghai Advanced Research in Physical Sciences (SHARPS), China, The Center for High Pressure Science & Technology Advanced Research (Hpstar), China

Yanming Ma, Jilin University, China

Liling Sun, Institute of Physics, CAS, China

Viktor Struzhkin, the Center for High Pressure Science & Technology Advanced Research, China, Carnegie Institution for Science Geophysical Laboratory, US

Eugene Gregoryanz, the University of Edinburgh, UK

Thomas Meier, the Center for High Pressure Science & Technology Advanced Research (Hpstar), China

IV. Conference Agenda

	Monday June 5, 2023	Tuesday June 6, 2023	Wednesday June 7, 2023	Thursday June 8, 2023	Friday June 9, 2023
Morning	Arrival	Opening Ceremony Award Ceremony	Plenary Sessions III & IV	Plenary Sessions V & VI	Plenary Session VII
		Plenary sessions I & II			MRE Forum
					Closing Ceremony
Afternoon	Registration	Parallel Sessions I-V	Parallel Sessions XI-XV	Parallel Sessions XVI-XX	Departure
		Parallel Sessions VI-X	Best Poster Award session and Poster Session	Parallel Sessions XXI-XXV	
Evening		MRE Editorial Board Meeting		Banquet & Award Ceremony	

V. Awards

- **MRE Young Scientist Award**

The Award Ceremony of the 4th MRE Young Scientist Award will be held on June 6th. The shortlisted competitors will give “MRE Young Scientist Award invited presentation” at ICMRE2023 in topical sessions. More detail on MRE Young Scientist Award please refer to <https://pubs.aip.org/aip/mre/pages/youngscientist>.

- **MRE Best Paper Award**

The Award Ceremony of “MRE Best Paper Award” will be held on June 6th. More detail on MRE Best Paper Award please refer to <https://pubs.aip.org/aip/mre/pages/bestpaper>.

- **Best Poster Award**

The Best Poster Session will be held on June 7th from 16:10 to 18:00. The jury members will ask questions and judge the posters based on the research and presentation. The Best Poster Award Ceremony will be held during the banquet in the evening on June 8th.

VI. Presentation instruction

Oral presentation:

The presentation time for different presentation type is listed below.

Plenary speech: 40 min (including 5 min Q&A)

Keynote speech: 30 min (including 5 min Q&A)

Invited/MRE Young Scientist Award invited speech: 20 min or 25 min (depending on the detailed program of each session, including 5 min Q&A)

Invited oral speech: 15 min or 20 min (depending on the detailed program of each session, including 3-5 min Q&A)

Oral speech: 15 min (including 3 min Q&A)

Powerpoint with size 16:9 should be prepared and presented at the conference.

Poster Presentation: Posters should be printed and brought to the venue by the presenters. On-site printing is not available. The poster size is 800 mm wide and 1000 mm high.

Poster template can be downloaded here:

<http://icmre2023.mre.org.cn/news/5227.html>.

VII. Registration

Online registration deadline: May 31st, 2023

Registration fee:

Regular: ¥4,000 RMB or \$600 USD

Student: ¥2,500 RMB or \$400 USD

Companion: ¥1,000 RMB or \$175 USD

VIII. Venue and accommodation

Venue: Zhuhai Marriott Hotel, Building 9, No 177 Jingshan Road, Jida, Xiangzhou District, Zhuhai, Guangdong, China, 519000, Tel: +86 756-6318888.

Accommodation:

- Zhuhai Marriott Hotel: 1 king bed room: ¥750 RMB; 2 double beds room: ¥550 RMB
- Holiday Inn Zhuhai City Center: 1 king bed room/2 double beds room: ¥450 RMB.

Please login via URL <http://icmre2023.mre.org.cn/Accommodation.html> to make reservation.

IX. Chairs

General Chair: Weiyan ZHANG (张维岩)

Co-Chairs: Michel KOENIG, Ho-Kwang MAO (毛河光)

Local Chairs: Zongqing ZHAO (赵宗清), Jiayong ZHONG (仲佳勇)

Scientific Committee

Chair: Stefan WEBER, Dieter HOFFMANN, Ke LAN (蓝可), Baifei SHEN (沈百飞)

Members (in alphabetic order): Alessandra BENUZZI-MOUNAIX, Lihua CAO (曹莉华), Jun Chen (陈军), David CRANDALL, Jianjun DENG (邓建军), Yongkun DING (丁永坤), Yuqiu GU (谷渝秋), Hongliang He (贺红亮), Jianbo HU (胡建波), Amina HUSSEIN, Dominik KRAUS, Kuo LI (李阔), Xisheng LUO (罗喜胜), Tatiana PIKUZ, Bhuvana SRINIVASAN, Ting SI (司廷), Qizhi Sun (孙奇志), Jianguo WANG (王建国), Qiang WU (吴强), Hong XIAO (肖宏), Baohan ZHANG (张保汉), Shaoping Zhu (朱少平), Wenjun Zhu (祝文军), Wanguo Zheng (郑万国)

Local Organizing Committee:

Chairs: Wei Han (韩伟), Yuchi Wu (吴玉迟), Chengli Yan (晏成立)

Coordinators: Ying Huang (黄颖), Zhiruo Zhang (章芷若)

Members: Wei Wang (王巍), Jie Li (李杰), Ye Tan (谭叶), Yujuan Wang (王玉娟), Yun Bai (白云), Qianqian Li (李芊芊), Chen Zhang (张琛), Chunye Jiao (焦春晔), Liping Zhao (赵利平), Yue Huang (黄越), Qiangqiang Zhang (张强强), Xin Hao (郝欣), Yingchun Li (李迎春), Ying Deng (邓颖), Zhiyang Jiang (蒋智洋), Zhuoyang Yan (晏卓阳), Ziyue Lan (蓝梓月), Weihua He (何卫华), Qiuyue Xu (徐秋月), Quanping Fan (范全平), Zuhua Yang (杨祖华), Zhaohui Wu (吴朝辉), Yue Yang (杨月), Zongqiang Yuan (袁宗强), Tiankui Zhang (张天奎), Bo Zhang (张博), Zhimeng Zhang (张智猛), Feng Zhang (张锋), Chao Tian (田超), Fang Tan (谭放), Shaoyi Wang (王少义), Yonghong Yan (闫永宏), Liling Li (李丽灵), Yongteng Yuan (袁永腾), Kuan Ren (任宽), Chuansheng Yi (尹传盛), Hang Zhao (赵航), Tianming Song (宋天明), Hao Liu (刘浩), Liang Sun (孙亮), Xiaoxi Duan (段晓溪), Tao Gong (龚韬), Yulin Li (李钰淋), Shengxin Ke (柯盛鑫), Zhicheng Liu (刘志诚), Jihui Chen (陈纪辉), Wenbo Mo (莫文博), Yiyang (赵艺)

阳), Bo Xie (谢波), Hasheng Ye (叶翰晟), Zitao Wang (王子涛), Hao Yang (杨蒿),
Tianhui Li (李天惠), Aling He (何阿玲)

X. Organizations

Hosts

Science and Technology on Plasma Physics Laboratory

Department of Astronomy, Beijing Normal University

Co-Hosts

Matter and Radiation at Extremes

Institute of Applied Physics and Computational Mathematics

Institute of Fluid Physics, China Academy of Engineering Physics

College of Engineering Physics, Shenzhen Technology University

China (Mianyang) Science and Technology City Institute of Advanced
Technology

Mianyang SCI-TECH City Institute of Photon Technology

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Shanghai Anvilsource Material Technology Co., Ltd

Sichuan Feinixs Technology Co., Ltd

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Megabar-Tech (Shenzhen) co., Ltd

Newlight Source QiFeng Technology Co., Ltd

KernRay Instruments Co., Ltd

Beijing Glass Research Institute Co., Ltd

Grace Laser Technology Co., Ltd

XI. Contact

For foreign attendee issues, plenary, invited, oral and poster speaker issues, Website, abstract submission, agenda and program, MRE editorial board meeting, Award Ceremony, MRE journal issues:

- Ying Huang (黄颖)

Phone: +86-816-2483833, 86-15608110234 (WeChat)

Email: mreeo@aip.org

For domestic attendee issues, conference registration, sponsorship and exhibition, venue, shuttle service, travel information, payment and invoice:

- General: Zhiruo Zhang (章芷若), 0816-2490490, 86-18180699268
- Hotel reservation: Ziyue Lan (蓝梓月), 0816-2493513, 86-18990131680
- Shuttle service and travel information: Zhuoyang Yan (晏卓阳), 0816-2483147, 86-18780413697
- Registration fee payment and invoice: Weihua He (何卫华), 0816-2481486, 86-18781130693

XII. ICMRE2023 Wechat

Please scan the QR code below to join ICMRE2023 Wechat group chat.

