

# PRICM 10

## The 10<sup>th</sup> Pacific Rim International Conference on Advanced Materials and Processing

August 18-22, 2019 Xi'an, P. R. CHINA

### Call for Papers (2<sup>nd</sup> Announcement)

#### Organized by

The Chinese Society for Metals (CSM)

#### Sponsored by

The Chinese Society for Metals (CSM)

The Japan Institute of Metals and Materials (JIM)

The Korean Institute of Metals and Materials (KIM)

Materials Australia (MA)

The Minerals, Metals & Materials Society (TMS)



Conference Website: [www.pricm10.com](http://www.pricm10.com)



# Contents / Important Dates

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## Important Dates

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- Abstract Submission Deadline  
Thursday, January 31, 2019
- Manuscript (Full Paper) Submission Deadline  
Wednesday, May 1, 2019
- Author's Registration Deadline  
Saturday, June 15, 2019
- Early Registration Deadline (Regular Participant)  
Monday, July 15, 2019
- Deadline for Cancellation  
Thursday, August 1, 2019
- Registration  
Sunday, August 18, 2019
- Conference  
August 19-22, 2019

# Invitation to PRICM10 / Conference Outline

## **Invitation to PRICM10**

This triennial conference is the 10<sup>th</sup> in a series of international conferences devoted to advanced materials and processing. PRICM Conference is jointly sponsored by The Chinese Society for Metals (CSM), The Japan Institute of Metals and Materials (JIM), The Korean Institute of Metals and Materials (KIM), Materials Australia (MA), and The Minerals, Metals & Materials Society (TMS) and organized in rotation among these sponsoring organizations from 1992 in Hangzhou, China. The purpose of PRICM is to provide an attractive forum for the exchange of scientific and technological information on advanced materials and processing.

After 27 years, it is the third round of PRICM Conferences hosted by China. Based on the excellent performance of those previous conferences and collaborative efforts of CSM, JIM, KIM, MA and TMS, PRICM-10 will be a new leap for PRICM Conferences.

We are pleased to inform you that the conference has received a highly positive response since the first announcement. Up to now, more than 1000 delegates have been registered for this event. The exhibition and sponsorship preparations have also started and received a warm response. We welcome you all to participate in this coming major conference and to join us for exciting discussions.

## **Conference Outline**

**Date:** August 18-22, 2019

**Venue:** Xi'an Qujiang International Conference Center

**Official Language:** English



## **Organizers / Committees**

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### **Organized by**

The Chinese Society for Metals (CSM)

### **Sponsored by**

The Chinese Society for Metals (CSM)

The Japan Institute of Metals and Materials (JIM)

The Korean Institute of Metals and Materials (KIM)

Materials Australia (MA)

The Minerals, Metals & Materials Society (TMS)

### **Local Co-organized by**

Beihang University

China Powder Metallurgy Alliance

Northwest Institute for Nonferrous Metal Research Group

Northwestern Polytechnical University

Xi'an Jiaotong University

Xi'an University of Architecture and Technology

### **Supported by**

Chinese Materials Research Society

### **Honorary Chairman**

Yuqing Weng                      Chinese Academy of Engineering

### **Conference Chairman**

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Hyuck-Mo Lee	KAIST
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Dan Thoma	University of Wisconsin - Madison

## **International Advisory Board Members**

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	Mitsuo Niinomi	Tohoku University
<b>KIM</b>	Kyung Tae Hong	KIST
	Chang Hee Lee	Hanyang University
	Chong Soo Lee	POSTECH
<b>MA</b>	Matthew Barnett	Deakin University
	Simon Ringer	University of Sydney
	David StJohn	University of Queensland
<b>TMS</b>	Diran Apelian	Metal Processing Institute (MPI)
	Marc Meyers	University of California San Diego
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## Plenary Speakers

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### CSM

#### **Bingbo WEI**

Academician, President of Chinese Materials Research Society  
Professor of Northwestern Polytechnical University

#### **Presentation Title: Recent Progress in Space Materials Science and Technology**

Bingbo Wei, born in April 1964 at Shandong province of China, professor of materials science at the department of applied physics in Northwestern Polytechnical University (NPU), member of Chinese Academy of Sciences, president of Chinese Materials Research Society. He graduated from the mechanical engineering department of Shandong Engineering Institute and got a BE degree for foundry technology in 1983. Obtained a ME degree for solidification technology in 1986 at the materials science department of Nanjing Institute of Technology. In 1989, he received a Ph.D degree for rapid solidification research at department of materials science and engineering in NPU. After his doctoral study, he became lecturer of physical metallurgy at NPU and got involved in China's early programs of space science research. With the supports of Alexander von Humboldt Foundation, he went to German Aerospace Research Center, Max-Planck-Institute of Metals Research and Swiss Federal Institute of Technology Lausanne for cooperative investigations in the two years of 1991-1992. Promoted to professor of materials science at NPU in 1992 and appointed as director of applied physics department in 1998. He was the founding director of Ministerial Key Laboratory for Space Materials Science and Technology and the founding dean of School for Natural and Applied Sciences in NPU. In the respect of university administration, he served as the vice president for scientific research (2007-2013) and graduate education (2014-2018) of NPU. His research subjects include the directional solidification of aluminum alloys, rapid solidification of superalloys, containerless processing of refractory alloys, thermophysical properties of undercooled liquid alloys, and space materials science and technology. He was elected to Chinese Academy of Sciences in 2011. Served as the vice president of Chinese Materials Research Society for the 10 years of 2007-2017 and became the president in 2018.



**Mitsuo NIINOMI**

Tohoku University, Japan

**Presentation Title: Research and Development of Metallic Biomaterials for Inhibiting Stress-shielding between Implant and Bone**

Prof. Mitsuo Niinomi received his PhD from Faculty of Engineering, Nagoya University in 1980. From 1980 to 2005, he was a research associate, Associate Professor, and Professor at Toyohashi University of Technology. In 2005, he moved to Institute for Materials Research, Tohoku University as a Professor. He was a Director at Institute for Materials Research, Tohoku University from 2009 to 2014. He was retired from Institute of Materials Research, Tohoku University. He has been an Honorary Professor at Tianjin University (China) from 2011. He has been a Professor Emeritus at Tohoku University, a Visiting Professor at Institute for Materials Research, Tohoku University, a Specially Appointed Professor at Osaka University and Meijo University, and a Visiting Professor at Nagoya University from 2016. He has been an Honorary Professor at North Eastern University (China) from 2018. He was a President of Japan Institute of Metals and Materials (JIM) from 2014 to 2015. He was a Visiting Associate Professor at Carnegie-Mellon University (USA) from 1988 to 1989, and a Visiting Professor at The University of Dayton (USA) and a Foreign Researcher, Material Institute, Wright Patterson Air Force Base, US Air Force from 1997 to 1997. He has over 480 technical papers (citations: over 9,000, h-index-45) , 120 review papers, 430 international conference papers, 50 articles in books, 10 edited books, and 16 patents. His recent research is focused on designing, development, and evaluation of biological and mechanical biocompatibility of titanium alloys for medical and dental applications.

**KIM****Hyoung Seop KIM**

Pohang University of Science and Technology (POSTECH), Korea

**Presentation Title: Design, Properties, and Applications of High Entropy Alloys**

Professor Hyoung Seop Kim of POSTECH got his bachelor (1986), master (1988), and Ph.D. (1992) degrees in department of metallurgical engineering, Seoul National University, spent in Chungnam National University (1995-2008), and has joined department of materials science and engineering and graduate institute for ferrous technology (GIFT). POSTECH in 2008. He is the director of the Center for High Entropy Alloys, supported by the Future Materials Discovery Program of Korean National Research Foundation. He was the British Council Fellow (University of Oxford, 1997-1998), Australian Research Council Fellow (The university of Western Australia, 1988-1999), DAAD Scholar (TU Clausthal, 2001), British Chevening Scholar (University of Oxford, 2001-2002). JSPS Fellow (Tohoku University, 2003; Kyushu University, 2007), DFG Visiting Fellow (TU Clausthal, 2004), Visiting Professor (University of Pennsylvania, 2005-2007, 2015-2016). He is the editor-in-chief of Metals and Materials International, editor of Materials Research Letters, associate editor of Science and Technology of Advanced Materials, and editorial board member of Materials Science and Engineering A and Journal of Materials Science. He has published more than 500 SCI papers (citations over 7000, h-index 43, Clarivate Analytics). His research field is microstructure and mechanism-based plasticity theory and its application to advanced materials (e.g. porous, amorphous, ultrafine grained, nanocrystalline, heterogeneous metallic materials) and processing (powder metallurgy, severe plastic deformation, additive manufacturing, and material architecturing). He is the Fellows of both the Korean Academy of Science and Technology and the National Academy of Engineering of Korea.

**MA****Joanne ETHERIDGE**

Monash University, Australia

**Presentation Title: Finding the atoms that matter in functional materials**

Joanne Etheridge is the founding Director of the Monash Centre for Electron Microscopy and Professor in the Department of Materials Science and Engineering at Monash University. She obtained her degree and PhD in physics at the University of Melbourne and RMIT University, respectively. She then held appointments at the University of Cambridge in the Department of Materials Science and Metallurgy and Newnham College, including a Rosalind Franklin Research Fellowship and a Royal Society University Research Fellowship. She returned to Melbourne to join Monash University where she established the Monash Centre for Electron Microscopy. She conducts research in the theory and development of new electron scattering methods for determining the atomic and electronic structure of condensed matter. She also applies these methods to the study of structure-property relationships in functional materials, including plasmonic nanoparticle systems, photoactive and ion-conducting perovskite-based systems, functional oxides and semiconductor systems.

**Kevin HEMKER**

Johns Hopkins University, USA

**Presentation Title: Understanding and Developing Nanostructured Materials with Requisite Properties and Stability**

Kevin Hemker is the Alonzo G. Decker Chair and Professor of Mechanical Engineering at Johns Hopkins University and holds joint appointments in the Departments of Materials Science & Engineering and Earth & Planetary Sciences. He earned a BS in metallurgy from the University of Cincinnati, MS and PhD degrees in materials science and engineering from Stanford University, and completed a postdoctoral fellowship in physics at the Ecole Polytechnique Federale de Lausanne. He joined the faculty at Johns Hopkins University in 1993, was an NSF National Young Investigator (1994), an invited Professor at the EPFL (1995) and the University of Paris XIII (2001), and received the ASM Materials Science Research Silver Medal in 2001. He served as Chair of the Department of Mechanical Engineering (2007-2013) and editor of Scripta Materialia (2004-2011). He was a member and Vice-Chair of the DARPA Defense Science Research Council (2010-2014), and is currently a member of the HRL Technical Advisory Group, the SRI Technology Council and President of The Minerals, Metals, Materials Society (TMS). Hemker has been named Fellow of AAAS, ASME, ASM International and TMS.



Hemker has mentored approximately 75 postdoctoral fellows, doctoral and masters students since coming to Hopkins, more than 15 of whom now have tenured or tenure-track academic positions in major research universities (U Penn, UIUC, UCSB, Tohoku U, U Freiburg, TAMU, etc.). His group strives to elucidate the underlying atomic-level details that govern the mechanical response, performance and reliability of disparate material systems. They have made key observations and discoveries that have challenged the way the community thinks about and understands materials behavior in: additive manufacturing, nanocrystalline materials, materials for MEMS, metallic micro-lattices, thermal barrier coatings for satellites and gas turbines, armor ceramics, extreme environments, and high temperature structural materials in general. The results of their research have been disseminated in approximately 250 scientific articles, 4 co-edited books and over 300 invited presentations and plenary lectures.



## Schedule / Social Events

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### Schedule

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Date	Activity		
	<i>Morning</i>	<i>Afternoon</i>	<i>Evening</i>
August 18, Sunday	—	Registration	Registration Welcome Party
August 19, Monday	Plenary Session	Parallel Sessions	—
August 20, Tuesday	Parallel Sessions	Parallel Sessions	—
August 21, Wednesday	Parallel Sessions	Parallel Sessions	Banquet
August 22, Thursday	Parallel Sessions	Parallel Sessions	—
<b>Conference Venue:</b> Qujiang International Conference Center			

### Social Events

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#### Welcome Party

Sunday, August 18 / Evening

Venue: Qujiang International Conference Center

All registered regular authors and participants are invited to attend the Welcome Party free of charge.

A light meal and drinks will be served.

#### Banquet

Wednesday, August 21 / Evening

Venue: Qujiang International Conference Center

All registered regular authors and participants are invited to attend the Banquet free of charge.

## Call for Papers

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### **Abstract Submission**

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All contributions on the topics of the Conference as described previously are welcomed. Prospective authors are invited to submit an abstract (300 words in English), the deadline of for abstract submission is **January 31, 2019**. The abstracts are requested to submit through the conference website: [www.pricm10.com](http://www.pricm10.com). If there are any problems during the submission process, please contact the Conference Secretariat (email: [pricm10@csm.org.cn](mailto:pricm10@csm.org.cn)).

### **Manuscripts**

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The manuscripts are requested to submit through the conference website before **May 1, 2019**. Please submit the documents both in MS Word and PDF format. Please download the authors guide for manuscript and copyright transfer form from the conference website ([www.pricm10.com](http://www.pricm10.com)).

### **Publication**

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All the accepted manuscripts will be included in the conference proceedings without ISBN. The conference proceedings will be provided on-site in USB flash disk.

According to the suggestions of organizing committee, a selection of manuscripts will be recommended to the following journals (updated):

No.	Source of Papers	Journal	Index
1	Plenary Lectures Keynote Papers	SCIENCE CHINA Materials	SCI, EI, etc.
2	Plenary Lectures Keynote Papers Symposium B Symposium H	Progress in Natural Science: Materials International	SCI, etc.
3	Plenary Lectures Keynote Papers	Acta Metallurgica Sinica	SCI, EI, etc.

4	Plenary Lectures Keynote Papers Symposium B	Journal of Rare Earths	SCI, EI, etc.
5	Plenary Lectures Keynote Papers	Journal of Iron and Steel Research International	SCI, EI
6	Plenary Lectures Keynote Papers	Chinese Journal of Mechanical Engineering	SCI
7	Symposium F	Bioactive Materials	ESCI,PMC, Scopus, EMBASE
8	Symposium C: Magnesium	Journal of Magnesium and Alloys	SCI
9	Symposium I	Composites Communications	ESCI, etc.

## **Presentation**

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- ✧ Authors could choose the type of presentation (oral or poster) in the registration. The final result will be given to the author after the paper is reviewed by experts.
- ✧ Each presentation could be arranged in the technical program only if at least one author's registration fee is paid before **June 15, 2019**.

## **Poster Award**

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Poster Award for Young Scientist will be presented to the excellent poster submitted by young scientist under the age of 30.

## **Exhibition, Workshop & Sponsorship Opportunities**

As the integral elements of the event, PRICM10 will feature the exhibition and workshop that will enable excellent exposure for company products, technologies, innovative solutions or services. The exhibition and workshop will be organized near the meeting room during PRICM10. The conference will offer an excellent opportunity for companies to do business and maintain key contacts with customers and suppliers. It is also a unique platform for them to promote new products, outline services and highlight key achievements.

Companies will be able to reinforce their participation and enhance their corporate identification by taking advantage of the benefits offered to them as sponsors of the conference.

If you would like to join the exhibition, workshop or sponsorship, please contact with the Conference Secretariat .

### **Exhibition Condition**

The exhibition booth will be located near to the venue of PRICM10, the rent rate and booth size is Standard Booth: 3 × 3 (m<sup>2</sup>)

Standard booth will be provided: three-side wooden walls, one information desk, two chairs, two lights, one power outlet (220V) and company's name panel.

1. Exhibitors who wish to participate in the event please fill in Reservation form.
2. Exhibition booth arrangement: Due to venue constraints, the total number of booths is limited.

Booth will be arranged and confirmed based on the sequence of enrollment and payment successively.

### **Workshop**

The workshops will be held in Xi'an Qujiang International Conference Center from 14:00 to 17:00 on 18 August 2019. Companies are welcome to demonstrate their products, equipment, new technologies and manufacturing processes.

✧ **CNY 18000/1 hour**

## Registration / Visa Application

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### Registration

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- ✧ Registration Deadline for Authors June 15, 2019
- ✧ Early Registration Deadline for Participants July 15, 2019

### Fees

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#### Authors

- ✧ **CNY 5300 (Regular)** **CNY 2800 (Student)**

\*Notes: 1) Each accepted paper will be published in the conference proceedings only if at least one author's registration fee is paid before **June 15, 2019**.

2) Oral or poster presentation will be arranged only if at least one author's registration fee is paid before **June 15, 2019**.

3) Students are requested to submit the copy of their student ID.

#### Participants

Registration Fee	Before July 15, 2019	After July 15, 2019 before August 5, 2019	On August 18, 2019
Regular Participants	CNY 5300	CNY 5700	CNY 5900
Students	CNY 2800	CNY 3200	CNY 3400

*\*Note: Students are requested to submit the copy of their student ID*

### Entitlement

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#### Registration Fee for regular participants covers:

Conference fee, All official documentation (technical program book, conference proceedings, etc.), Welcome Reception, Banquet, Tea/Coffee Break, Lunch buffet during the conference, Name badge

#### Registration fee for students covers:

Conference fee, All official documentation (technical program book, conference proceedings, etc.), Tea/Coffee Break, Lunch buffet during the conference, Name badge

## Method of Payment

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### 1. Online Payment

Through the conference online payment , all payments could be made in CNY by credit card.

### 2. Bank Transfer

Please transfer the registration fee to the following bank account, and specify with "PRICM10, Registration No.". A copy of remittance certificate is requested to send to the conference secretariat or submit to the conference website.

Name of Bank	INDUSTRIAL AND COMMERCIAL BANK OF CHINA BEIJING MUNICIPAL BRANCH WANG FU JING SUB-BRANCH OFFICE
Beneficiary and Account Holder	The Chinese Society for Metals
Address	NO.237 WANG FU JING STREET, DONG CHENG DISTRICT, BEIJING 100006 P.R.CHINA
SWIFT ADDRESS	ICBKCNBJBJM
Account Number	0200000709089116848

\*Notes: 1) The Check will not be accepted

2) The registration fee doesn't include the bank charge.

3) The receipt will be provided at the registration desk during the conference.

### 3. Payment in CNY at the Registration Desk

Attendees are requested to pay by credit card in CNY on the registration day.

## Cancellation

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Refunds cannot be given if cancellations received after August 1, 2019. Substitutions can be accepted at any time.

Please indicate the bank, branch and account number clearly to which the refund should be sent, and the refund will be made after the conference.

Cancellation	Refund
Before August 1, 2019	80%
After August 1, 2019	No refund (Conference proceedings will be sent to the authors after the conference)

## Visa Application

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People from most countries will be required to obtain a visa to enter the People's Republic of China. PRICM10 participants who are required to apply for visa to enter China can apply for a Chinese visa at the nearest Embassy or Consulate of China in your countries. For some visa applications, the process could take some time to complete, depending on your country of origin and certain visa restrictions so we would like to suggest you start the visa application as early as possible.

As conference hosts, we can issue you an invitation letter for your visa with the necessary signature and official stamp. If you need, please log in your account and download it in “My Page” after paying for your registration.

Tips: Local organizers could NOT provide conference invitation letter to accompanying personnel according to related regulations. We suggest that accompanying personnel apply for tourism type visa, which will be much easier and require less paperwork.

### Notes:

1. You should guarantee that all information provided is true and correct.
2. In the letter for visa, we can only guarantee your stay in Xi'an during congress period.
3. General visa information should be obtained from your local Embassy or Consulate of China.

## Conference Venue / Hotel Reservation

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### Conference Venue

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The conference will be held in Xi'an Qujiang International Conference Center (QICEG) from August 18-22, 2019. QICEG is ideally located in the heart of Xi'an city adjacent to The Dayan Pagoda, Daci'en Temple, and which is next to the "Hui Zhan Zhong Xin (会展中心)" Station of subway line 2.

### Accommodation

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For the participants of PRICM10, the special rates will be effective from August 18-22, 2019. The recommended hotels and room rate are as follows:

**Hotel**            **1. Renaissance Xi'an Hotel(西安万丽酒店)★★★★★**

**Room Type**    Standard Room (Twin beds/King bed)

**Room Rate**    820CNY / 770CNY (Including Breakfast)

**Network**        Free WIFI

**Introduction**   Renaissance Xi'an Hotel is only 5 minutes walking distance from the "Qujiang International Conference Center".

**Booking**        Click here for booking

**Contact**        Ms.Gou Qianqian    E-mail: [pricm-10@csm.org.cn](mailto:pricm-10@csm.org.cn)

**Hotel**            **2. Ramada Plaza Xi'an South(西安曲江华美达广场酒店)★★★★★**

**Room Type**    Standard Room (Twin beds/King bed)

**Room Rate**    600CNY (Including Breakfast)

**Network**        Free WIFI

**Introduction**   Ramada Plaza Hotel is only 5 minutes walking distance from the "Qujiang International Conference Center".

**Booking**        Click here for booking

**Contact**        Ms.Gou Qianqian    E-mail: [pricm-10@csm.org.cn](mailto:pricm-10@csm.org.cn)

**Hotel**            **3. Tianyu Fields International Hotel (天宇菲尔德国际大酒店)★★★★★**

**Room Type**    Standard Room (Twin beds/King bed)

**Room Rate**    460CNY / 520CNY (Including Breakfast)

**Network**        Free WIFI

**Introduction**   Tianyu fields International Hotel is 5 km from the "Qujiang International Conference Center".



**Booking**      Click here for booking

**Contact**      Ms.Gou Qianqian    E-mail: [pricm-10@csm.org.cn](mailto:pricm-10@csm.org.cn)



## General Information

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### **General Information**

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#### **Climate and Clothing**

During August, the average temperature in Xi'an 21-31°C.

#### **Currency**

Only CNY is acceptable at regular store and restaurants. Foreign currency or traveler's checks can be change into CNY at major banks, hotels and airports.

#### **Credit Cards**

Credit cards are widely accepted. Commonly recognized cards include Visa and MasterCard.

#### **Tipping**

There is no custom of tipping anywhere in China, even at hotels and restaurants. On certain occasions, however, a service charge is added to the bill.

#### **Electrical Appliances**

The voltage in China is 220 volts for electrical appliances. Electrical sockets usually accept two-pronged (vertical) plugs and three-pronged (vertical) plugs.

#### **Insurance**

The organizer cannot accept responsibility for accidents which might occur. It is recommended that participants take out adequate medical, travel and personal insurance prior to the commencement of travel.

#### **Contact** (about the conference)

Prof. Qing SONG, Mr. Xin ZHAO, Ms. Fang LIU

The Chinese Society for Metals

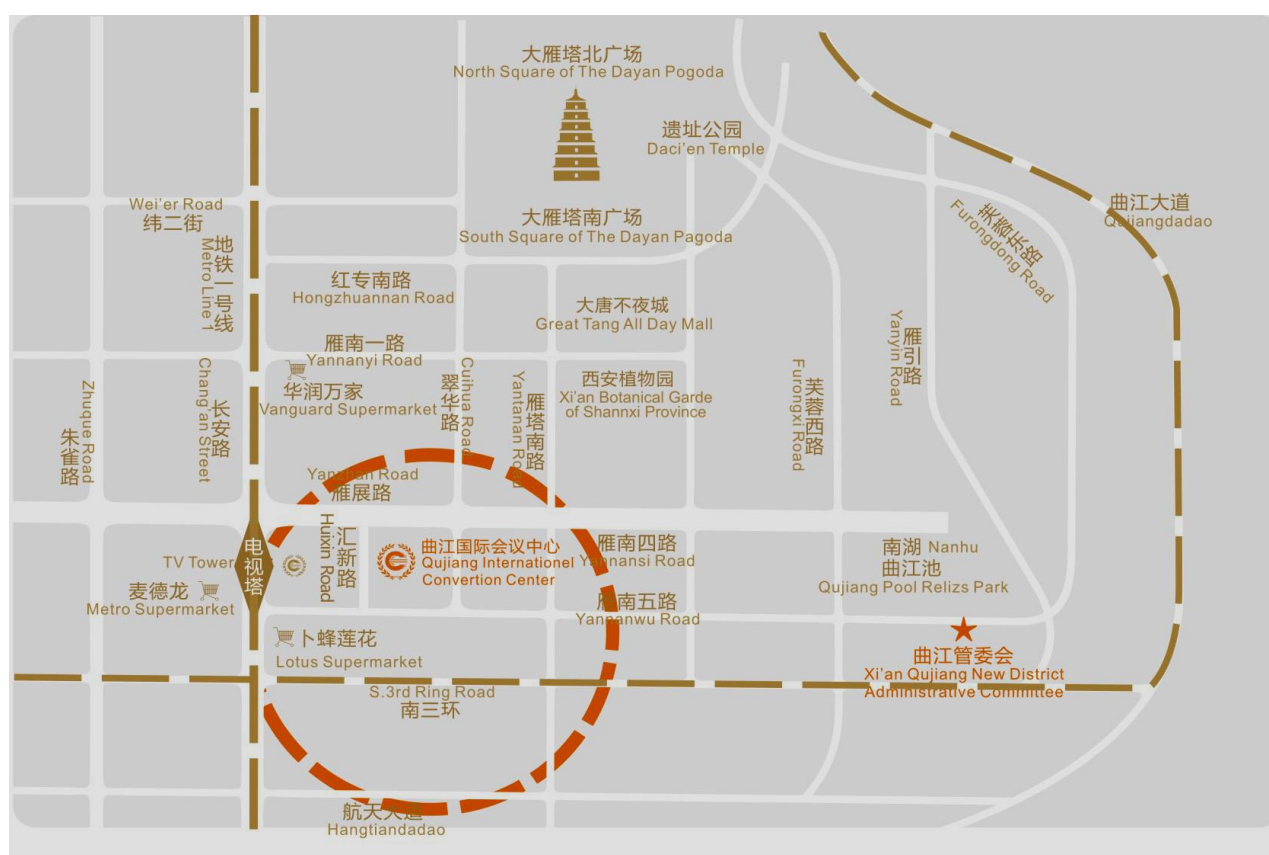
76 Xueyuan Nanlu, Beijing 100081, China

Tel: +86-10-65211205

Fax: +86-10-65124122

E-mail: pricm10@csm.org.cn

## Access



### Access from the nearest stations

#### Line 1: From XI'AN North Railway Station

Please take the subway line 1 to Hui Zhan Zhong Xin (会展中心) station, and then walk from Exit C to Qujiang International Conference Center.

#### Line 2: From XI'AN Railway Station

Please take the subway line 1 to Beidajie (北大街) station, and then transfer to Hui Zhan Zhong Xin (会展中心) station of subway line 2, walk from Exit C to Qujiang International Conference Center.

### Access by air

#### From Xi'an Xianyang International Airport

##### ➤ 110-120 minutes by shuttle bus

Please take the airport shuttle bus to Ramada Plaza Xi'an South Hotel, and walk 150 meters to Qujiang International Conference Center.

- 50-60 minutes by taxi

Please show Taxi drivers the following note for your convenience to the conference venue.

Please take me to Xi'an Qujiang International Conference Center. Thank you!

请送我到西安曲江国际会议中心

(地址: 西安市曲江新区汇新路 15 号; 电话: +86-29-87655888)