Energy Materials 2014

Xi'an, Shaanxi Province, China
November 4-6, 2014

Topics

◇ Materials for Coal-Based Systems (Boilers, Steam Turbines, IGCC)
◇ Materials for Gas Turbine Systems
◇ Materials for Nuclear Systems
◇ Materials for Oil & Gas (Drilling, Production and Petrochemical Systems)
◇ Materials for Pressure Vessels

Organized by

The Chinese Society for Metals
The Minerals, Metals, and Materials Society

Website: www.energymaterials2014.com
Invitation to Energy Materials 2014

Energy Materials 2014 will be organized jointly by The Chinese Society for Metals (CSM) and The Minerals, Metals, and Materials Society (TMS) on November 4-6, 2014 in Xi’an, Shaanxi Province, China.

Up to now, more than 240 abstracts and paper titles have been received from 20 countries and regions. Many famous material scientists have shown their interests in this conference and made their contributions towards the success of Energy Materials 2014.

We warmly invite you to join us in Xi’an and look forward to welcoming you for a successful conference.

Conference Topics

≤ Materials for Coal-Based Systems (Boilers, Steam Turbines, IGCC)

Included, but not limited to:

1. Development, manufacturing, welding, environmental adaptation, property assessment, inspection, application and maintenance of materials used for boiler and turbine systems of advanced ultra super-critical fossil power plants;
2. Development, manufacturing, environmental adaptation, and application of materials used coal gasification systems;

≤ Materials for Gas Turbine Systems

Included, but not limited to:

Development, manufacturing, environmental adaptation, property assessment, application of materials used for Gas Turbine Systems

≤ Materials for Nuclear Systems

Included, but not limited to:

1. Development, component manufacturing, welding, property assessment, numerical simulation and analysis, inspection, application and maintenance of materials used for pressured water reactor, high temperature gas cooled reactor and fast breeder reactor;
2. Development, component manufacturing, welding, property assessment, numerical simulation and analysis of materials used for various research reactors, including ITER;
**Materials for Oil & Gas (Drilling, Production and Petrochemical Systems)**

Included, but not limited to:

1. Oil well pipe for super deep Drilling well, corrosion resistant oil well pipe, coiled tubing, expandable casing and new mining materials for special usage, ocean platform steels

2. Pipe line steels with high performance, high pressure resistance, heavy caliber and long distance usage. Pipe line steels for strain resistant and polar region applying, seabed pipe line steels

3. Research, evaluation and technology relating to the welding, fatiguing, cracking and corroding of oil production and oil delivery steels

4. Storage and oil refining of oil and gas. Development and manufacture of low and middle temperature hydrogen induced cracking resistant steels and their long period serving behaviors

**Materials for Pressure Vessels**

Included, but not limited to:

Development, manufacturing, environmental adaptation, property assessment, application of materials used for Pressure Vessels

**Honorary Chairman**

Kuangdi XU

President, The Chinese Society for Metals

Honorary President, Chinese Academy of Engineering

**Conference Committee**

**Chairmen:**

Zhengdong LIU - Central Iron and Steel Research Institute, China (CSM)

Xingbo LIU - West Virginia University, USA (TMS)

**Consultant:**

Xishan XIE - University of Science and Technology Beijing, China

**Members:**

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>Country</th>
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<td>National Institute of Materials Science</td>
<td>Japan</td>
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<td>Dengqi BAI</td>
<td>SSAB</td>
<td>USA</td>
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<td>Frank BARBARO</td>
<td>Wollongong University</td>
<td>Australia</td>
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<td>Cynthia K. BELT</td>
<td>Energy Management Consultant</td>
<td>USA</td>
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<td>Jeffrey FERGUS</td>
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<td>J. M. GRAY</td>
<td>Microalloyed Steel Institute L.P.</td>
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<td>Aimin GUO</td>
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<td>China</td>
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<tr>
<td>Enhou HAN</td>
<td>Institute of Metal Research, Chinese Academy of Sciences</td>
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<td>Chunyong HUO</td>
<td>Tubular Goods Research Institute of China National Petroleum Corporation</td>
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<td>Zhiyang JIANG</td>
<td>China Petrochemical Corporation</td>
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<td>Guogang SHU</td>
<td>China Guangdong Nuclear Power Engineering Co., Ltd.</td>
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<td>John SHINGLEDECKER</td>
<td>Electric Power Research Institute, Inc.</td>
<td>USA</td>
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<tr>
<td>Marcos STUART</td>
<td>Companhia Brasileira de Metalurgia e Mineração (CBMM)</td>
<td>Brazil</td>
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<td>S.V. SUBRAMANIAN</td>
<td>McMaster University</td>
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<td>Yoshiaki TODA</td>
<td>National Institute of Materials Science</td>
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<td>Shan-Tung TU</td>
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<td>Baozhong WANG</td>
<td>China First Heavy Industries Co., Ltd.</td>
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<td>Chengbo XIAO</td>
<td>Beijing Institute of Aeronautical Materials</td>
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<td>Jian XIONG</td>
<td>State Nuclear Power Technology Corporation</td>
<td>China</td>
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<td>Guoqing ZHANG</td>
<td>Beijing Institute of Aeronautical Materials</td>
<td>China</td>
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</table>
**Secretary General**

Chengjia SHANG  
University of Science and Technology  Beijing  China

**Deputy Secretary General**

Qing SONG  
The Chinese Society for Metals  China

**Plenary Speakers (Tentative)**

**Plenary Session 1**

1. Yuqing WENG, The Chinese Society for Metals, China  
   **Academician and Honorary President of CSM**  
   **Title:** "The State-of-the-Art of Materials Technology Used for Fossil and Nuclear Power Plants in China"

2. Diran APELIAN, Worcester Polytechnic Institute, USA  
   **Former President of TMS**  
   **Title:** "Energy Efficient Materials Manufacturing from Secondary Resources"

3. Augusto DI GIANFRANCESCO, Centro Sviluppo Materiali, Italy  
   **Project Leader**  
   **Title:** "Material Based Solution for Power Generation: Coal, Gas and Nuclear"

4. Chunyong HUO, Tubular Goods Research Institute of China National Petroleum Corporation, China  
   **Deputy Director**  
   **Title:** "Applications of Pipeline Steel in Long-Distance Oil and Gas Pipeline of China"

**Plenary Session 2**

1. Zhanzhong CUI, Electric Power Planning & Engineering Institute (EPPEI), China  
   **Deputy Director**  
   **Title:** "Progress of China 700℃ USC Development Program"
2. Jeffrey HAWK, US Department of Energy, National Energy Technology Lab, USA
Title: "Turbine Materials: Merging Computational Thermodynamics/Kinetic Simulation with Alloy Design and Manufacturing"

3. Bong-Sang LEE, Korea Atomic Energy Research Institute (KAERI), Korea
Group Leader
Title: To be Announced

4. Jonathan PARKER, Electric Power Research Institute, USA
Title: "Factors Affecting the High Temperature Performance in Creep Strength Enhanced Ferritic Steels"

5. S. UKAI, Hokkaido University, Japan
Professor
Title: "Development of Advanced ODS Ferritic Steels for Fast Reactor Fuel Cladding"

Plenary Session 3

1. H. HENEIN, University of Alberta, Canada
President of TMS
Title: "Development of Microalloyed Steels for the Oil and Gas Industry"

2. Phil KIRKWOOD, Cresswell Consultants Limited, UK
Title: "Enhancing the Weldability of C-Mn Pressure Vessel Steels A Tale of Two Elements"

3. Brajendra MISHRA, Colorado School of Mines, USA
Title: "Corrosion of Advanced Steels: Challenges in the Oil & Gas Industry"

4. Chengjia SHANG, University of Science and Technology Beijing, China
Title: "Physical Metallurgy and Industrial Application of Third Generation Pipeline Steels"

5. Inshik SUH, POSCO, Korea
Title: "Development of High Manganese Steels for the Energy Industries"

6. Katsuyuki YICHIMIYA, JFE Steel Corporation, Japan
Title: "Development of Steel Plates for Offshore Structures"
Invited Speakers at Parallel Sessions (Tentative)

Materials for Coal-Based Systems

1. Fujio ABE, National Institute for Materials Science (NIMS), Japan
Title: "Alloy Design of Martensitic 9Cr-Boron Steel for A-USC Boiler at 650°C - Beyond Grades 91, 92 & 122 -"

2. Guocai CHAI, Sandvik/Linköping University, Sweden
Title: "Advanced Heat Resistant Austenitic Stainless Steel and Composite Tube Materials for High Efficient and Clean Energy Technology"

3. John de BARBADILLO, Special Metals Corporation, USA
Title: "Alloy 740H Component Manufacturing Development"

4. Sung Tae KANG, Doosan Heavy Industries, Korea
Title: "Development of USC and HSC Thermal Power Plant in Korea"

5. Fusheng LIN, Shanghai Power Equipment Research Institute, China
Title: To Be Announced

6. Zhengdong LIU, Central Iron and Steel Research Institute, China
Title: "The Development of Boiler Pipes Used for 700°C A-USC-PP in China"

7. Xingbo LIU, West Virginia University, USA
Title: "Coal Ash Hot Corrosion Behaviour of Inconel 740 Superalloy in Different Coal-Fired Boiler Environments – A High Temperature Electrochemical Study"

8. Steve ROBERTS, Goodwin Steel Castings Ltd., UK
Title: "Advances in Large Ni Alloy Turbine Castings for +700°C Operation"

9. John SHINGLEDECKER, Electric Power Research Institute, USA
Title: "Creep-Rupture Behavior of Ni-Based Alloy Tube Bends for A-USC Boilers"

10. Prabhakar SINGH, University of Connecticut, USA
Title: "Materials Degradation in Advanced Fossil Power Generation Systems: Thermochemical Analysis and Role of Solid-Liquid-Gas Interactions on Accelerated Corrosion in Complex Environment"

11. Shan-Tung TU, East China University of Science and Technology, China
Title: "Challenges for Long term and Safe operation of Coal Gasification Systems"
12. Xishan XIE, University of Science and Technology Beijing, China
Title: "Long-term Structure Stability on Advanced Austenitic Steels and Ni-base Alloys for 600-700C Ultra-Super-Critical Power Plants"

13. Qinxin ZHAO, Xi'an Jiaotong University, China
Title: "Studies on High Temperature Corrosion of Austenitic Heat-resistant Steel Super304H in Simulated and Real Combustion Gas Atmosphere"

14. Rongcan ZHOU, Xi'an Thermal Power Research Insititute Co., Ltd., China
Title: To Be Announced

**Materials for Gas Turbine Systems**

1. Jinhui DU, Central Iron and Steel Research Institute, China
Title: "Research Progress of Wrought Superalloys Used in Gas Turbine Disk"

2. Hiroshi HARADA, National Institute for Materials Science, Japan
Title: "Advanced Ni-base Superalloys and Coatings for Future Gas Turbines"

3. Jason MENCHACA, PCC-Wyman, USA
Title: "Co-extrusion Technology"

4. Daniel MUMM, University of California, Irvine, USA
Title: "Potential Impacts of Alternative Fuels on the Evolution and Stability of Turbine Hot-Section Materials"

5. Chengbo XIAO, Bejing Institute of Aeronautical Materials, China
Title: "Directional Solidification Superalloys for Gas Turbine"

6. Ji ZHANG, Central Iron and Steel Research Institute, China
Title: "TiAl Alloys for Gas Turbine"

7. Jian ZHANG, Institute of Metal Research, Chinese Academy of Sciences, China
Title: "Hot-corrosion resistant superalloys for gas turbine"

**Materials for Nuclear Systems**

1. Chengliang LI, China Guangdong Nuclear Power Engineering Co., Ltd., China
Title: "Study on thermal aging performance of Domestic Cast Austenitic Stainless Steel in Nuclear Power Plants"

2. Raul REBAK, GE Global Research, USA
Title: "Advanced Steels for Accident Tolerant Fuel Cladding in Commercial Light Water Reactors"
3. Baozhong WANG, China First Heavy Industries Co., Ltd., China  
Title: "Development of Mono-bloc Forging for CAP1400 Reactor Pressure Vessel"

4. Jianqiu WANG, Institute of Metal Research, Chinese Academy of Sciences, China  
Title: "Corrosion Behavior of Nuclear Materials in High Temperature Pressurized Water"

5. Andrzej ZIELINSKI, Gdańsk University of Technology, Poland  
Title: "The Development of New Zr Alloys for Nuclear Power Plants"

Materials for Oil & Gas

1. Wei CHEN, Baker Hughes, USA  
Title: "Materials Challenges for Downhole Tools in Oil and Gas Drilling Applications"

2. Zak FANG, The University of Utah, USA  
Title: "WC Development"

3. Sarwan MANNAN, Special Metals Corporation, USA  
Title: "High-Strength Nickel-Base Alloys in Oil and Gas Production"

4. R. D. K. MISRA, University of Louisiana at Lafayette, USA  
Title: To Be Announced

5. Teresa PEREZ, Tenaris, Argentina  
Title: "Corrosion in the Oil and Gas Industry: an increasing challenge for materials"

6. S.V. SUBRAMANIAN, McMaster University, Canada  
Title: "Optimization of Carbon and Niobium Content in High Grade Line Pipe Steels"

7. Jer-Ren YANG, National Taiwan University, Taiwan, China  
Title: "Strengthening of interphase-precipitated carbides in high-strength low-alloy ferritic steels"

8. Daowu ZHOU, Subsea 7, Norway  
Title: "Subsea Pipeline Steel"

Materials for Pressure Vessels

1. Steven G. JANSTO, CBMM North America, Inc., USA  
Title: "Niobium Application, Metallurgy and Global Trends in Pressure Vessel Steels"

2. Xiaohu ZHANG, Hefei General Machinery Research Institute, China  
Title: "Applications of Steel Plates for Pressure Vessels in GB150.2"
**Call for Abstracts**

All the authors have to submit the abstracts which will be included in the technical program. Please submit an abstract in English (about 200 words) **before 1 May 2014** to the conference secretariat by e-mail: energymaterials2014@csm.org.cn and energymaterials2014@csmorg.cn, or through the conference website (www.energymaterials2014.com).

**Proceedings**

The accepted manuscripts will be published by The Minerals, Metals & Materials Society (TMS) in proceedings as a CD which will be issued to attendees at the conference site. After the conference, all the manuscripts included in the conference proceedings CD will be submitted to Elsevier Engineering Index (EI) and Thomson Reuters Conference Proceedings Citation Index (CPCI) by TMS.

Manuscripts will not be published in the proceedings unless the registration fees are paid before August 15, 2014.

**Manuscripts**

The manuscripts together with the scanned copy of signed copyright transfer forms should be submitted to energymaterials2014@csm.org.cn and energymaterials2014@csmorg.cn or through the conference website (www.energymaterials2014.com) **before 15 July 2014**. The formats of submission documents are both in MS Word and PDF format.

Each author is required to submit only one manuscript which should not exceed 10 pages (plenary paper), 8 pages (invited paper) and 6 pages (contributed paper). Please download the authors guide for manuscript and copyright transfer form from the conference website (www.energymaterials2014.com).

According to the review results of technical committee, the best manuscripts will be recommended to "Metallurgical and Materials Transactions E-Materials for Energy Systems". The notice will be send to the authors before 1 August 2014.
**Presentation**

Authors should choose the type of presentation (oral or poster) in the attached registration form and send it together with the abstract/manuscript submission to the conference secretariat. Your choice will be considered and 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 August 15, 2014.

**Conference Schedule**

<table>
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<th>Date</th>
<th>Activity</th>
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<tr>
<td>Morning</td>
<td>Afternoon</td>
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<tr>
<td>3 November 2014</td>
<td>Registration</td>
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<td>(Monday)</td>
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<td>4 November 2014</td>
<td>Opening Ceremony</td>
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<td>(Tuesday)</td>
<td>Plenary Session 1</td>
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<td>5 November 2014</td>
<td>Parallel Sessions</td>
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<td>(Wednesday)</td>
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<td>6 November 2014</td>
<td>Parallel Sessions</td>
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**Place:** Xi’an International Conference Center

**Official Language**

The official language of the conference is English.

**Registration fee**

**Authors**

- USD 650 (Regular)
- USD 550 (Student)

*Notes: 1) Each accepted paper will be published in the Conference proceedings CD or recommended to the journal only if at least one author’s registration fee is paid before **August 15, 2014**.

2) Oral or poster presentation will be arranged only if at least one author’s registration fee is paid before **August 15, 2014**.

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

**Participants**
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<td>Regular Participants</td>
<td>USD 650</td>
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<td>USD 750</td>
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<tr>
<td>Students</td>
<td>USD 550</td>
<td>USD 600</td>
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<tr>
<td>Accompanying Persons</td>
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*Note: Students are requested to submit the copy of their student ID*

The registration fee for *regular participants* covers:
- Name badge
- Admission to the conference
- All official documentation (technical program, CD-ROM proceedings, etc.)
- Opening Reception
- Banquet
- Tea/Coffee Break
- Luncheon during the conference

The registration fee for *students* covers:
- Name badge
- Admission to the conference
- All official documentation (technical program, CD-ROM proceedings, etc.)
- Opening Reception
- Tea/Coffee Break
- Luncheon during the conference

The registration fee for *accompanying persons* covers:
- Opening Reception
- Banquet
- Luncheon during the conference

**Sponsorship and Exhibition**

Promoting your organization in the conference will deliver numerous benefits including:
--- Direct access to key industry professionals over the three days of the conference.
--- An opportunity to brand your organization in an international conference.
--- Build relationships and gain a competitive advantage.

**Sponsor Options**

The Energy Materials 2014 has prepared a selection of sponsorship opportunities. The options are as follows:
--- Flyer inserted into each delegate conference bag.......................... USD 1,000
--- Meeting information table for advert items..................................USD 500
--- Company’s posters or roll-ups placed near the venue gates.............USD 1,000
--- Interstitials of conference technical program book……from USD 1,500 to USD 2,000
--- Gift sponsor……………………………………………………………………from USD 1,000
--- Conference bags sponsor………………………………………………USD 1,500
--- Conference meal sponsor………………………………………………from USD 2,000

Exhibition

As an integral element of the event, the Conference will provide the Table Top units’ exhibition and workshops.

For more detail information of sponsorship and exhibition, please visit the conference website: www.energymaterials2014.com.

Method of Payment

1. Bank Transfer

Please transfer the registration fee to the following bank account, and specify with “Energy Materials 2014, Attendee’s name/organization”. A copy of remittance certificate is requested to send to the conference secretariat together with the Registration Form.

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<tr>
<th>Name of Bank</th>
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<td>BEIJING MUNICIPAL BRANCH</td>
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<td>WANG FU JING SUB-BRANCH OFFICE</td>
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<tr>
<td>Beneficiary and Account Holder</td>
<td>The Chinese Society for Metals</td>
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<tr>
<td>Address</td>
<td>NO.237 WANG FU JING STREET, DONG CHENG</td>
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<td>DISTRICT, BEIJING 100006 P.R.CHINA</td>
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*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.

2. Payment in RMB at the Registration Desk

Attendees are requested to pay by credit card or cash in RMB according to the exchange rate of RMB on the registration day.

Milestone Dates

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<th>Deadline for Abstract Submission</th>
<th>May 1, 2014</th>
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<tr>
<td>Deadline for Manuscripts Submission</td>
<td>July 15, 2014</td>
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<td>Deadline for Author’s Registration and Payment</td>
<td>August 15, 2014</td>
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<td>Deadline for Early Registration and Sightseeing Confirmation</td>
<td>October 1, 2014</td>
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Cancellation

Refunds cannot be given if cancellations received after October 15, 2014. 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.

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<th>Cancellation</th>
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<td>Before October 15, 2014</td>
<td>80%</td>
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<tr>
<td>After October 15, 2014</td>
<td>No refund (A copy of conference proceedings CD will be sent to the authors after the conference)</td>
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**Registration and Visa Application**

If you plan to attend Energy Materials 2014, please download the attached registration form on the conference website [www.energymaterials2014.com](http://www.energymaterials2014.com) or fill in the enclosed registration form and send it to the conference secretariat at your earliest convenience. Please use a separate form for each attendee.

For participants who need the official invitation letter for visa application, please fill in the passport number and nationality etc. in the registration form and send it to the conference secretariat. Please notice that the invitation letters will be issued only 3 months before the conference. In order to get the visa smoothly, it would be better if you apply the visa in your nationality country.

When receive the invitation letter, please take it and contact the Chinese Embassy or Consulate in your country of residence for entry visa. According to the Chinese policy, the official invitation letter for Energy Materials 2014 could not be issued until August 10, 2014.

*Note: The visa application cities could be found in the document.

**Conference Venue and Hotel Reservation**

Xi'an International Conference Center (★★★★) will be the venue of Energy Materials 2014 and our recommended hotel. It is located to the Big Wild Goose Pagoda in the QuJiang Tourism Holiday Development District, covers approx. 130,000 square meters. Some hotels with different prices and styles close to the conference venue could be also selected by attendees.

For the participants of Energy Materials 2014, special conference rates will be effective from November 3, 2014 to November 8, 2014. The room rate is

- **Standard Room:** RMB 580 / night (including one breakfast)
- **Standard Room:** RMB 630 / night (including two breakfasts)
- **Executive Room:** RMB 900 / night (including one breakfast)

If you wish to reserve accommodation recommended by the conference secretariat, please indicate your order in the hotel reservation form. The room fee should be paid to the hotel directly
when you check in.

Conference Venue: Xi'an International Conference Center
Address: South Yanta Nan Lu, Xi'an, China 710061
Tel.: +86-29-85223333, Fax: +86-29-85233099
Website: www.qujianghotel.com

Map of Conference Venue:

Taxi is our recommended means of transportation for first-time visitors (50 minutes away to Xi'an international airport, appropriate 60 kilometers, the taxi fee is about RMB 150 by the highway without traffic jam). Please show the address in Chinese below in case the taxi driver cannot understand you.

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

请送我到西安国际会议中心。曲江宾馆（地址：西安雁塔南路 6 号；电话：029-85223333）

Privacy Policy

All necessary pre-cautions and measures to ensure security of all personal information have been taken. Your personal information is strictly confined to the use of administrative purposes by the conference organizer.

Conference Secretariat

CSM: Prof. Qing SONG, Mr. Xin ZHAO

The Chinese Society for Metals

46 Dongsixi Dajie, Beijing 100711, China
Registration Form of Energy Materials 2014

Please complete the following form and return to the Conference Secretariat by E-mail: energymaterials2014@csn.org.cn, energymaterials2014@csm.org.cn, or fax: +86-10-65124122

Title: □ Mr. □ Ms. □ Dr. □ Prof.

Last Name_________________________________ First Name_________________________________

Position________________________ Major__________ Affiliation_________________________________

Mailing Address____________________________________________________

City__________________________ Country__________________________ Post Code_____________________

Telephone________________________ Fax_______________________________

Email___________________________________________________________

Paper No.: ____________ □ Oral Presentation □ Poster

☐ I will attend the conference

☐ I wish to sponsor and exhibit

Visa Application

Name:________________________________ Date of Birth:______________ Sex:___________

Visa Application Country:________________________ Visa Application City:_____________________

Nationality:________________________ Passport No.:_______________________________

Accompanying Person

Name:________________________________ Date of Birth:______________ Sex:___________

Visa Application Country:________________________ Visa Application City:_____________________

Nationality:________________________ Passport No.:_______________________________

Hotel Reservation

Xi’an International Conference Center (★★★★)

☐ Standard Room: RMB 580/night (including one breakfast)

☐ Standard Room: RMB 630/night (including two breakfasts)
- Executive Room: RMB 900/night (including one breakfast)

 Arrival Date: ______________________  Departure Date: ______________________

**Registration**

**Registration fee:**

<table>
<thead>
<tr>
<th>Category</th>
<th>Payment Details</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Authors</strong></td>
<td>Payment through Bank transfer before August 15, 2014</td>
<td>USD 650/person for regular authors</td>
</tr>
<tr>
<td></td>
<td></td>
<td>USD 550/person for students</td>
</tr>
<tr>
<td><strong>Participants</strong></td>
<td>Payment through Bank transfer before October 1, 2014</td>
<td>USD 650/person for regular participants</td>
</tr>
<tr>
<td></td>
<td></td>
<td>USD 550/person for students</td>
</tr>
<tr>
<td></td>
<td>Payment through Bank transfer after October 1, 2014</td>
<td>USD 700/person for regular participants</td>
</tr>
<tr>
<td></td>
<td>before the conference registration</td>
<td>USD 600/person for students</td>
</tr>
<tr>
<td></td>
<td>On-site payment on November 3, 2014</td>
<td>USD 750/person for regular participants</td>
</tr>
<tr>
<td></td>
<td></td>
<td>USD 650/person for students</td>
</tr>
<tr>
<td><strong>Accompanying Persons</strong></td>
<td></td>
<td>USD 200/person</td>
</tr>
</tbody>
</table>

Total Registration: USD _________
Hotel Reservation Form of Energy Materials 2014

One Form is required for Each Reservation / Participant
Please Return to Hotel
T: +86-29-85223333-1265(reservation)  F: +86-29-85233099

Please select the room type you want to book:

☐ Standard Room
☐ Executive Room

Guest’s Reservation Details

<table>
<thead>
<tr>
<th>Guest’s Name</th>
<th>First Name</th>
<th>Mid. Name</th>
<th>Last Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accompanying (If applicable)</td>
<td>First Name</td>
<td>Mid. Name</td>
<td>Last Name</td>
</tr>
<tr>
<td>Company Name</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Address</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Telephone</td>
<td></td>
<td>Facsimile</td>
<td></td>
</tr>
<tr>
<td>Arrival Date</td>
<td></td>
<td>Arrival Time</td>
<td></td>
</tr>
<tr>
<td>Departure Date</td>
<td></td>
<td>Departure Time</td>
<td></td>
</tr>
<tr>
<td>E-Mail</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Credit Card #</td>
<td></td>
<td>Exp.</td>
<td></td>
</tr>
</tbody>
</table>

- Booking will not be accepted without valid credit card number, including expiration date and name of cardholder.
- Reservation received after 16:00 hours local time is subject to hotel’s room availability, the room rate will be under the current Benchmark Rate.
- Hotel check-in time is 14:00 hours and check out time is 14:00 hours. Early check in and late check out is subject to room availability.
- Room rate is valid from 11/3/2014 to 11/8/2014, Hotel’s Benchmark Rate will be applied for stay before and after the dates shown above.

Please present this form to the Receptionist upon Check-in.
Your confirmation number is:

Please visit www.qujianghotel.com for more hotel information.
We look forward to welcoming you to Xi'an International Conference Center.
## Attachment: Social Program

Sightseeing in Xi'an will be provided during the conference for accompanying persons by travel agency, following is the schedule from November 3 to 6:

<table>
<thead>
<tr>
<th>Date</th>
<th>Activity</th>
<th>Morning</th>
<th>Afternoon</th>
<th>Evening</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 November</td>
<td><strong>Route 1</strong></td>
<td>The Terracotta Warriors / The Banpo Museum / The Huaqing Spring</td>
<td>Opening Reception*</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 November</td>
<td><strong>Route 2</strong></td>
<td>Shaanxi Museum of History / The Bell Tower / The Square of Bell Tower</td>
<td>Conference Banquet*</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 November</td>
<td><strong>Route 3</strong></td>
<td>The Big Wild Goose Pagoda / The Ancient City Wall</td>
<td>Route 4</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Tang Dynasty Cabaret</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Route 2</strong></td>
<td>Shaanxi Museum of History / The Bell Tower / The Square of Bell Tower</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6 November</td>
<td><strong>Route 1</strong></td>
<td>The Terracotta Warriors / The Banpo Museum / The Huaqing Spring</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Opening Reception and Conference Banquet will be included in the registration fee.*

### Route 1

**Prices:** RMB 590/PAX *(Group size: 10 Pax)*

**Prices include:**
- English-speaking tour guide
- Main sightseeing admission fee
- One Chinese lunch
- Air-conditioned coach

### Route 2

**Prices:** RMB 300/PAX *(Group size: 10 Pax)*
Prices include:
- English-speaking tour guide
- Main sightseeing admission fee
- Air-conditioned coach

Route 3
Prices: RMB 350/PAX (Group size: 10 Pax/Upon)

Prices include:
- English-speaking tour guide
- Main sightseeing admission fee
- Air-conditioned coach

Route 4
Prices: RMB 198/PAX (Group size: 10 Pax/Upon)

Prices include:
- 60 minutes performance
- Transportation

Remarks:
1. Sightseeing must be reserved in the form of sightseeing in Xi’an and send it to the conference secretariat before October 1, 2014, and it will be cancelled if the reserved number of each day less than 5 people
2. The price will be varied with the number of participants and the payment will be completed at registration desk
3. All city tours will depart from Xi’an International Conference Center.
Sightseeing in Xi’an

<table>
<thead>
<tr>
<th>Route</th>
<th>Date</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Route 1</td>
<td>3 November 2014</td>
<td>6 November 2014</td>
</tr>
<tr>
<td>Route 2</td>
<td>Morning of 4 November 2014</td>
<td>Afternoon of 5 November 2014</td>
</tr>
<tr>
<td>Route 3</td>
<td>Afternoon of 4 November 2014</td>
<td>Morning of 5 November 2014</td>
</tr>
<tr>
<td>Route 4</td>
<td>Evening of 5 November 2014</td>
<td></td>
</tr>
</tbody>
</table>

*Note: The sightseeing will be cancelled if the reserved number of each day less than 5 people. The payment of social program will be completed at registration desk, and the price will be varied with the number of participants.*