Joint Scientific Assembly

IAGA-IASPEI 2021

21-27 August, 2021

2ND CIRCULAR

Emerging Trends in Geophysics for a Transforming World

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Second Circular:
IAGA-IASPEI Joint Scientific Assembly (JSA) 2021

Dear Members of the IAGA and IASPEI Communities,

The First Circular of the IAGA-IASPEI Joint Scientific Assembly (JSA), 2021 was released more than five months ago. We have realized that adaptability should be our mainstay during this unprecedented global crisis to make this JSA a possibility.

The JSA will now be organized during 21-27 August 2021 on a fully virtual platform, to overcome the risks due to the pandemic, associated with travel after deliberating with both the Associations and also with in the country. The JSA will be preceded by the IAGA and IASPEI Schools and GIFT Workshop. The 13th General Assembly of the Asian Seismological Commission (ASC) will be coterminous with the JSA, adding to the variety and diversity of the scientific program.

Though we personally wished your physical presence and make this JSA a memorable one, but the changed circumstances have led to the planning of a virtual JSA which shall provide you the comfort and enthused participation in larger numbers. The LOC in consultation with the two Associations has substantially reduced the registration fees which shall allow many young researchers to participate and present their scientific papers and join us in plenary lectures and other Joint Sessions.

The new normal of virtual conference will open up new vistas through interaction and could lead to fruitful collaborations to further science. We have initiated the processes for moving to a virtual conferencing and shall update you all regularly through the website (http://iaga-iaspei-india2021.in/).

As a Chair, LOC, I urge the scientific community to convert the current situation into an opportunity and make this Joint Scientific Assembly a grand success by your active participation.

Dr. Virendra M. Tiwari
Director, CSIR-National Geophysical Research Institute, India
Chair, Local Organizing Committee
e-mail: locjsa2021@ngri.res.in
Revised Important Dates

<table>
<thead>
<tr>
<th>Dates</th>
<th>Events</th>
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<tbody>
<tr>
<td>15 January – 15 April 2021</td>
<td>Abstract Submission</td>
</tr>
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<td>15 January – 30 June 2021</td>
<td>Early Bird Registration</td>
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<tr>
<td>15 May 2021</td>
<td>Acceptance of Abstracts</td>
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<tr>
<td>1 July – 27 Aug 2021</td>
<td>Standard Registration</td>
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<td>16 – 20 August 2021</td>
<td>IAGA, IASPEI Summer Schools</td>
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<td>19 – 21 August 2021</td>
<td>GIFT Workshop, IAGA, IASPEI Business Meetings</td>
</tr>
<tr>
<td>21– 27 August 2021</td>
<td>Inaugural, Plenary Sessions, Scientific Sessions, Business Meetings, Exhibition, Closing Ceremony</td>
</tr>
</tbody>
</table>

Scientific Sessions

A total of 70 symposia on topical themes have been proposed including IAGA, IASPEI, ASC and Joint Sessions and a special symposium commemorating the Diamond Jubilee of CSIR-NGRI, as provided in following pages. Plenary Sessions are also being planned.

Depending on the number of abstracts submitted, the sessions will be spread over six days, with live Q&A options and extended Q&A sessions through chat. Recorded oral presentations would be available.

There will be e-poster sessions with chat Q&A options

The recorded presentations will be available for 7 days after the schedule of presentation with chat options for Q&A for registered delegates. Poster sessions will be available for 7 days after the schedule of presentation with chat options for Q&A for registered delegates for 2 days.

Business Meetings

Business Meetings of the Associations shall also be held virtually with extended options for live Q&A.

Session Timings

Timings of oral sessions will be optimized for all global time zones. Duration of each oral session will be 2 hours at one time.

E-Posters for each day’s sessions would be available for viewing with assigned timings for author interaction.

Timing of Business Meetings will be scheduled during those times when the maximum number of delegates can participate live.
Abstract Submission and Registration

As first author, a participant may submit a maximum of 3 abstracts and shall attract an Abstract Submission Fee of US$ 30 which shall be adjusted against the Registration Fee. The revised amounts for the virtual conference would be as below.

<table>
<thead>
<tr>
<th>Category</th>
<th>Early Bird</th>
<th>Standard</th>
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</thead>
<tbody>
<tr>
<td>Regular delegates</td>
<td>US$ 175</td>
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<tr>
<td>Students</td>
<td>US$ 50</td>
<td>US$ 75</td>
</tr>
<tr>
<td>Retired</td>
<td>US$ 100</td>
<td>US$ 150</td>
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</table>

IAGA & IASPEI Schools

The 5th IAGA School and IASPEI School are planned for August 16-20, 2021, just before the IAGA-IASPEI Joint Assembly, with the aim of providing excellent early career scientists with a good basic understanding of a wide range of the scientific topics covered by IAGA and IASPEI respectively. The Schools normally would also have taken place in Hyderabad, but due to the situation regarding the COVID-19 pandemic, they will be fully virtual. As participants also should get to know each other, in virtual rooms, the number of participants will still be limited to approximately 30 for each School.

For the IAGA School, the application process has been completed and the selected participants will be informed by the end of the year. Two lectures would be planned per day of 90 min duration as well as group projects.

The IASPEI School early career research scholars in the field of Seismology, Earthquake Engineering and Geophysics and of age 35 years or below on 1 January, 2021 are eligible. The calls for application will be announced through the conference website in the coming months. It will revolve around the theme: “Principles of Earthquake Location and its Correlation with Seismic Network Designs”. Three lectures per day of one hour duration each, are planned.

GIFT Workshop

Geoscience Information for Teachers (GIFT) Workshops are outreach programs organized to provide first hand scientific information on various aspects of the planet Earth to science teachers of secondary schools to shorten time between discovery and textbook, making teachers aware of emerging scientific information and deliver materials and knowledge, which can be directly transported to classrooms.

The GIFT 2021 will be organized from 19-21 August 2021, on the topic ‘Understanding the Changing Earth’ and will explore topics like climate forcing, groundwater conditions, earthquake patterns, and geomagnetic field. The flyer is available on the conference website.
List of Proposed Symposia

The symposia proposed by IAGA, IASPEI and ASC are listed in the Table below. Descriptions of each symposium will be made available at the website by 15 Dec 2020. [http://iaga-iaspe-india2021.in/](http://iaga-iaspe-india2021.in/)

Commemorating the sixty years of growth of CSIR-NGRI, a Diamond Jubilee Session is also planned on the topic ‘Advancing Geophysical Sciences – 60 years of CSIR-NGRI, India’. Invited lectures by Eminent Personalities would showcase the Institute’s achievements over the last six decades.

### Joint Symposia

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Composition</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>J1</td>
<td>IAGA-IASPEI</td>
<td>Earth and planetary core structure and evolution from observations and modelling</td>
</tr>
<tr>
<td>J2</td>
<td>IAGA-IASPEI</td>
<td>Application of Geophysical Studies for understanding Lithospheric Structure and Properties</td>
</tr>
<tr>
<td>J3</td>
<td>IAGA-IASPEI</td>
<td>Lithosphere-Atmosphere-Ionosphere coupling: Seismionicospheric and Electromagnetic Anomalies</td>
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<tr>
<td>J4</td>
<td>IAGA-IASPEI</td>
<td>Joint inversion methods and other Interpretation strategies to Integrate Multidisciplinary Geophysical data</td>
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<tr>
<td>J5</td>
<td>IAGA-IASPEI</td>
<td>Cratons &amp; Mineral exploration</td>
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<tr>
<td>J6</td>
<td>IAGA-IASPEI</td>
<td>Marine Geophysics</td>
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<tr>
<td>J7</td>
<td>IASPEI-EMSEV</td>
<td>New knowledge of Intraplate Earthquakes using ground and Satellite Observations: marking two decades of the deadly 2001 Bhuj Earthquake</td>
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<tr>
<td>J8</td>
<td>IAGA-IASPEI</td>
<td>Geoscience data FAIR: Life cycle inside Repository, Licensing, data Publication, and Citation</td>
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<td>J9</td>
<td>IAGA-IASPEI</td>
<td>Analogue data for future: Preservation and Present-day utilization of Instrumental Historical data in the Geosciences</td>
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<td>J10</td>
<td>IAGA-IASPEI</td>
<td>Innovation in geoscience education and outreach</td>
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<td>1</td>
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<td>Div V-Div I</td>
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<td>G3</td>
<td>Div II-ICDC-SCOSTEP</td>
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<td>Div V-Div IV-ICSW</td>
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<td>G6.2</td>
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## IASPEI Symposia

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<tr>
<th>S. No.</th>
<th>IASPEI Commission(s)</th>
<th>Symposium Title</th>
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<tbody>
<tr>
<td>S1</td>
<td>Seismological Observation and Interpretation</td>
<td>Observational Seismology - Open session Seismology</td>
</tr>
<tr>
<td>S2</td>
<td>Seismological Observation and Interpretation - Earthquake Source Mechanics</td>
<td>Standardization and Automatic Procedures in Source Studies</td>
</tr>
<tr>
<td>S3</td>
<td>Seismological Observation and Interpretation - Earthquake Source Mechanics</td>
<td>Anthropogenic Seismicity</td>
</tr>
<tr>
<td>S4</td>
<td>Seismological Observation and Interpretation</td>
<td>Seismic scattering and absorption, Ambient noise, and monitoring Earth's structure</td>
</tr>
<tr>
<td>S5</td>
<td>Seismological Observation and Interpretation</td>
<td>Advancements in Observation, Processing and Interpretation of Seismological data</td>
</tr>
<tr>
<td>S6</td>
<td>Seismological Observation and Interpretation</td>
<td>Collection, Interpretation and Publication of Paleo and Historical Earthquake data</td>
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<tr>
<td>S7</td>
<td>Seismological Observation and Interpretation</td>
<td>National and Regional Earthquake Centers: Highlights and Challenges</td>
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<tr>
<td>S8</td>
<td>Seismological Observation and Interpretation</td>
<td>Advances in Geophysics, Atmospheric Science, and Signal Analysis for monitoring the CTBT</td>
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<tr>
<td>S9</td>
<td>Seismological Observation and Interpretation</td>
<td>Cryoseismology</td>
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<tr>
<td>S10</td>
<td>Seismic Hazard, Risk and Strong Ground Motion</td>
<td>Site and Source Modeling for Urban Seismic Microzonation Studies</td>
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<tr>
<td>S11</td>
<td>Earthquake Generation Process</td>
<td>Earthquake Generation Process &amp; Forecasting models</td>
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<td>S12</td>
<td>Earthquake Generation Process</td>
<td>Interdisciplinary Observations of Pre-earthquake processes: A new approach towards earthquake prediction studies</td>
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<td>S14</td>
<td>Earthquake Source Mechanics - Seismological Observation and Interpretation</td>
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<td>Tectonophysics and Crustal Structure</td>
<td>Fine structure of the Lithosphere</td>
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<td>S16</td>
<td>Tectonophysics and Crustal Structure - ILP</td>
<td>More than 40 years of Seismological Research within ILP</td>
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<tr>
<td>S17</td>
<td>Tectonophysics and Crustal Structure</td>
<td>The Crust of Oceans, Margins and Continents - from Regional to Global context</td>
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<tr>
<td>S18</td>
<td>Tectonophysics and Crustal Structure</td>
<td>Seismic Anisotropy and the crust-mantle structure</td>
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<td>S19</td>
<td>Tectonophysics and Crustal Structure</td>
<td>Intraplate seismicity: Distribution, Properties and causes</td>
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<tr>
<td>S20</td>
<td>Education and Outreach</td>
<td>Seismology Education, Citizen Science, and Global Resilience to Earthquakes</td>
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<td>S21</td>
<td>Education and Outreach - Seismic Hazard, Risk and Strong Ground Motion</td>
<td>Role of Seismologists and Earthquake Engineers in Community development</td>
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<td>Neo-tectonics, Seismicity and Seismic Induced Hazards in Asia</td>
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<td>Asian Seismological Commission - Seismological Observation and Interpretation</td>
<td>New technology for Earthquake Observation and Data explanation in Asia</td>
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<td>S24</td>
<td>International Heat Flow Commission</td>
<td>Towards 60 years of activity of the International Heat Flow Commission</td>
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