SMRI SPRING 2021
VIRTUAL CONFERENCE
19–22 April | Conference Announcement

Important Dates

<table>
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<tr>
<th>Date</th>
<th>Event</th>
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<tr>
<td>5 Feb</td>
<td>Conference Announcement released</td>
</tr>
<tr>
<td>16 Feb</td>
<td>Conference Registration open; both member and non-member registration open at same time.</td>
</tr>
<tr>
<td>19 Feb</td>
<td>Unsolicited Research Proposals due; e-mail to Research Coordinator.</td>
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<tr>
<td>1 March</td>
<td>Final paper copy due; e-mail to Program Chair</td>
</tr>
<tr>
<td>19 March</td>
<td>Presentations due. Details to be emailed to speakers at a later date.</td>
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Conference Schedule

EDT = Eastern Time (US); CEST = Central European Time

**Friday, 16 April**
10:00 am–2:00 pm (EDT)
Research Committee Meeting

16:00–20:00 (CEST)

**Saturday, 17 April**
10:00 am–2:00 pm (EDT)
Leadership Committee Meeting

16:00–20:00 (CEST)

**Monday, 19 April**
10:00 am–12:00 pm (EDT)
Business Meeting (Members Only)
The SMRI business meeting will be held Monday to transact business of the Institute. All members are welcome, including all staff of member organizations, not only voting representatives.

2:00 pm–3:15 pm (EDT)
Icebreaker
To open the conference, SMRI invites all participants to this informal virtual reception. Grab a snack and drink, set yourself up in a comfortable chair, relax, and enjoy an hour of the camaraderie of friends and colleagues, lighthearted games, and even some prizes to begin the conference.

20:00–21:15 (CEST)

**Tuesday, 20 April**
Technical Paper Presentation, Day 1
Available at 8:00 am (EDT)
14:00 (CEST)

**Wednesday, 21 April**
Technical Paper Presentation, Day 1 Questions
The presenters from the first day of the Technical Session will be available to address questions.

**Thursday, 22 April**
Technical Paper Presentation, Day 2 Questions
The presenters from the second day of the Technical Session will be available to address questions.

Technical Class

SMRI will not be holding an optional Technical Class as part of the Spring 2021 Virtual Conference. The class is better suited for in-person, smaller groups. The “Technical Aspects and Considerations for Cavern Abandonment” class scheduled for the 2020 meetings has been delayed until the Fall 2021 Conference.

Research Presentations

There are no oral research reports scheduled to be presented during the virtual conference. Presentations for at least two projects are anticipated for the Fall 2021 Conference.

Registration Fees

<table>
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<tr>
<th>Type</th>
<th>Price</th>
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<tr>
<td>Member Early Bird Price (16 Feb–16 Mar)</td>
<td>$200</td>
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<tr>
<td>Member Regular Price (17 Mar–16 Apr)</td>
<td>$300</td>
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<tr>
<td>Non-Member Early Bird Price (16 Feb–16 Mar)</td>
<td>$500</td>
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<tr>
<td>Non-Member Regular Price (17 Mar–16 Apr)</td>
<td>$750</td>
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</table>
Spring 2021 Sponsorships

Sponsorships help defray costs of hosting conferences, keep conference fees affordable, and allow more of the member dues to be directed towards active research. Members or non-members may be sponsors. For more detailed information, view the last page in this document.

We thank these sponsors of the Spring 2021 Virtual SMRI Conference:

**GOLD:** Lane Power & Energy Solutions, Inc., Sonic Surveys, Inc. and WSP USA

**SILVER:** Geostock Sandia, LLC; RESPEC; and Lonquist & Co., LLC.

**BRONZE:** Cavern Solutions; SOCON Sonar Well Services; Ratigan Engineering & Consulting, LLC, and Stream-Flo Industries.

*Contact Dawn Langlinais for more information.*

*Don't miss the opportunity to participate in the Virtual Areas.*

Virtual Vendor Exhibit Hall and Fair

Visit our sponsors’ pages to learn more about the company and get insights into product or service offerings.

Conference Assistance

**SMRI Membership Issues:**
**John Nadeau** | Executive Director  
**Phone:** +1 518-579-6587  
**Email:** jnadeau@solutionmining.org

**Registration Assistance:**
**Dawn Langlinais** | Manager of Conferences and Education  
**Phone:** +1 918-914-2499  
**Email:** dawnL@solutionmining.org

Future Conferences

**SMRI European Conference**

- **Fall 2021**  
  19-22 Sept  
  Krakow, Poland

- **Spring 2022**  
  3-6 May  
  Rapid City, South Dakota, USA  
  *(note: mid-week conference)*

- **Fall 2022**  
  25-28 Sept  
  Chester, United Kingdom

Committee Openings

Applications for the 2022 Assistant Program Chairman for those members from North America, who would then rotate through the SMRI’s Executive Committee are due 1 March 2021. Send applications and any questions to jnadeau@solutionmining.org.

Applications for the two Research Committee positions, one from North America and one from outside North America, for four-year terms are due 1 March. The new members will be appointed for 2022-2025 service. See online Research Committee member responsibilities in the research section of the website for more details, and apply to Fritz Wilke, SMRI Research Coordinator at fwilke@solutionmining.org.
# Technical Paper List With All Authors

**Virtual Technical Conference: 19–22 April 2021**

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<th>Author(s)</th>
<th>Organization(s)</th>
<th>Title</th>
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<tr>
<td>Pierre Bérest¹, Benoît Brouard², Grégoire Hévin³, Arnaud Réveillère⁴</td>
<td>(1) Ecole Polytechnique&lt;br&gt;(2) Brouard Consulting&lt;br&gt;(3) Storengy&lt;br&gt;(4) Geostock</td>
<td>Tightness of Salt Caverns for Hydrogen Storage</td>
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<tr>
<td>Birgit Horváth, Alexander Raith, Dirk Zander-Schiebenhofer</td>
<td>DEEP.KBB</td>
<td>The Geological Barrier—A Key Component of a Comprehensive Integrity Assessment</td>
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<tr>
<td>Benoît Brouard¹, Vassiliy Zakharov³, Pierre Bérest⁴</td>
<td>(1) Brouard Consulting&lt;br&gt;(2) Ecole Polytechnique</td>
<td>Assessment of Cavern Stability: Cavern Clusters vs Single Cavern</td>
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<td>Todd Cash, Paul W. Bieniawski</td>
<td>Enstor Gas LLC</td>
<td>Implementing an Environmental, Social and Governance (ESG) Program</td>
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<td>Roger Edgecombe¹, Julie Clarke², Sheile Cascadden³, Ian Scotland¹, Chris Helly⁴, Marissa Whittaker³, and Luc Gravel¹</td>
<td>(1) RPS Energy&lt;br&gt;(2) Enbridge Gas Inc&lt;br&gt;(3) Nomad Geoservices Ltd.</td>
<td>Improving Gas Storage Deliverability Using 3D Seismic: A Case Study</td>
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<tr>
<td>C. Eichler¹, H. Bernhardt¹, R. Gjermundbo², T. Mortensen³</td>
<td>(1) DEEP.KBB&lt;br&gt;(2) Energinet.dk&lt;br&gt;(3) Gas Storage Denmark</td>
<td>Coupled Gas Filling and Flooding Process of Two Caverns</td>
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<td>Jay Evans¹, Tom Shaw²</td>
<td>(1) Global Gas Group LLC&lt;br&gt;(2) LK Energy LLC</td>
<td>Storage of Hydrogen in Solution Mined Salt Caverns for Long-Duration Energy Storage</td>
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<tr>
<td>William M. Goodman</td>
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<td>1920 To 1940 Were Transformative Years for the U.S. Salt Mining Industry: New Mines, New Methods and a Major New Market</td>
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<tr>
<td>Kevin Heiberger</td>
<td>RESPEC</td>
<td>Stress Analysis of a Production Casing for a Cavern Developed Beneath an Existing Cavern Field</td>
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<tr>
<td>Pablo Rodriguez</td>
<td>Enstor Gas LLC</td>
<td>Effect of Heat Transfer on Gas Storage Cavern Operations</td>
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<td>Sophie Minas</td>
<td>WSP USA</td>
<td>The Instability of Salt Cavern Hanging Strings and Proposed Completion Modifications</td>
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<td>Keith Jenkins, Mark Villarreal, Kristaq Mitrushi</td>
<td>Enventure Global Technology</td>
<td>Addressing Cavern Sealing and Cementing Issues using Solid Expandable Tubular Technology</td>
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<td>Byoung Park</td>
<td>Sandia National Laboratories</td>
<td>Geomechanical Evaluation of the Stability of Abandoned Cavern 4 in Bayou Choctaw Salt Dome</td>
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<tr>
<td>Barry Roberts¹, Anna Lord³, Drew Evans²</td>
<td>(1) Sandia National Laboratories&lt;br&gt;(2) Geostock Sandia</td>
<td>West Hackberry Salt Dome Mapping Refinement</td>
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<td>Drew Starnes</td>
<td>Crestone NDT</td>
<td>Potential Health Hazard to Workers from the Presence of Regulated TENORM on Gas Liquid Storage Caverns</td>
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<td>Samuel Voegeli</td>
<td>RESPEC</td>
<td>Accuracy of Temperature Logging for Calculating Gas Inventories in Storage Caverns</td>
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<td>Marek Cała, Katarzyna Cyran⁶, Michał Kowalski, Paweł Wilkosz⁷, Rafal Derdowski², Lukasz Gryzbowski²</td>
<td>(1) AGH University of Sciences and Technology&lt;br&gt;(2) Gas Storage Poland&lt;br&gt;(3) Adam Mickiewicz University</td>
<td>Stability Evaluation for Redesign the Cavern Shape</td>
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<tr>
<td>Aurélien Soubeyran, A. Rouabhi, C. Coquelet</td>
<td>MINES Paris Tech</td>
<td>Effect of Carbon Dioxide Dissolution Into the Brine on the Storage Conditions</td>
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<tr>
<td>Brandon Schulte</td>
<td>WSP USA</td>
<td>Application of a Novel Plug and Abandonment Method in a US Gulf Salt Dome</td>
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2021 Virtual Conference Sponsor Opportunities: 19–22, April 2021

SPONSORSHIP INFORMATION

SPRING CONFERENCE SPONSOR SIGNUP DEADLINE 1 March 2021. Starting about 1 January we will have a list of spring conference sponsors on the SMRI website.

FALL CONFERENCE SPONSOR SIGNUP DEADLINE IS 15 August 2021. Starting about 1 July, we will have a list of fall conference sponsors on the SMRI website. Call for Papers will list sponsors, and will be emailed and posted about 15 May.

There are limited numbers of sponsorships at each level, as shown in table above. Requests for ‘standing orders’ of sponsorship levels may be made only by members, for future spring, fall, or both conferences.

For proper recognition in conference posters and on SMRI’s website, a high resolution .jpg or graphics file of your corporate logo, (maximum of one logo per sponsor, please,) must be provided as early as possible.

SPRING CONFERENCE SPONSOR SIGNUP DEADLINE 1 March 2021. Starting about 1 January we will have a list of spring conference sponsors on the SMRI website.

For additional information or sponsorship forms, please contact:

Dawn Langlinais
+1 918-914-2499  |  dawnL@solutionmining.org