

SMRI SPRING 2021 VIRTUAL CONFERENCE



19–22 April | Conference Announcement

solutionmining.org

Important Dates

5 Feb	Conference Announcement released
16 Feb	Conference Registration open: both member and non-member registration open at same time.
19 Feb	Unsolicited Research Proposals due; e-mail to Research Coordinator.
1 March	Final paper copy due; e-mail to Program Chair
19 March	Presentations due. Details to be emailed to speakers at a later date.

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

Member Early Bird Price (16 Feb–16 Mar)	\$200
Member Regular Price (17 Mar–16 Apr)	\$300
Non-Member Early Bird Price (16 Feb–16 Mar)	\$500
Non-Member Regular Price (17 Mar–16 Apr)	\$750

Conference Schedule

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

Friday, 16 April

10:00 am–2:00 pm (EDT)
16:00–20:00 (CEST)

Research Committee Meeting

Saturday, 17 April

10:00 am–2:00 pm (EDT)
16:00–20:00 (CEST)

Leadership Committee Meeting

Monday, 19 April

10:00 am–12:00 pm (EDT)
16:00–18:00 (CEST)

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)
20:00–21:15 (CEST)

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.

Available at 8:00 am (EDT)
14:00 (CEST)

Technical Paper Presentation, Day 1

Presentations Available

All presentations will be available at 8:00 am (EDT). Attendees can view at their leisure and in any order. The schedule allows for a morning break, lunch, and an afternoon break.

Tuesday, 20 April

Available at 8:00 am (EDT)
14:00 (CEST)

Technical Paper Presentation, Day 2

Presentations Available

All presentations will be available at 8:00 am (EDT). Presentations from day 1 will also still be accessible.

Wednesday, 21 April

10:00 am–1:00 pm (EDT)
16:00–19:00 (CEST)

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

10:00 am–1:00 pm (EDT)
16:00–19:00 (CEST)

Technical Paper Presentation, Day 2 Questions

The presenters from the second day of the Technical Session will be available to address questions.

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.

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.

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

Fall 2021
19-22 Sept

Spring 2022
3-6 May

Fall 2022
25-28 Sept

SMRI European Conference
Krakow, Poland

SMRI Conference
Rapid City, South Dakota, USA
(note: mid-week conference)

SMRI European Conference
Chester, United Kingdom



Technical Paper List With All Authors

Virtual Technical Conference: 19–22 April 2021

Author(s)	Organization(s)	Title
Pierre Bérest ¹ , Benoît Brouard ² , Grégoire Hévin ³ , Arnaud Réveillère ⁴	(1) Ecole Polytechnique (2) Brouard Consulting (3) Storengy (4) Geostock	Tightness of Salt Caverns for Hydrogen Storage
Birgit Horváth, Alexander Raith, Dirk Zander-Schiebenhofer	DEEP.KBB	The Geological Barrier—A Key Component of a Comprehensive Integrity Assessment
Benoît Brouard ¹ , Vassily Zakharov ¹ , Pierre Bérest ²	(1) Brouard Consulting (2) Ecole Polytechnique	Assessment of Cavern Stability: Cavern Clusters vs Single Cavern
Todd Cash, Paul W. Bieniawski	Enstor Gas LLC	Implementing an Environmental, Social and Governance (ESG) Program
Dean Checkai, Robert Murray, Gavin Fleming, Mosunmola Ejike, Bilel Boukadi, Lauren Ramsey	Fluor Federal Petroleum Operations	Cavern Creep Closure and Volume Losses: Analysis of U.S. Strategic Petroleum Reserve Domal Salt Cavern Volume Losses During Static and Dynamic Conditions.
Roger Edgecombe ¹ , Julie Clarke ² , Sheile Cascadden ² , Ian Scotland ¹ , Chris Helly ¹ , Marissa Whittaker ³ , and Luc Gravel ¹	(1) RPS Energy (2) Enbridge Gas Inc (3) Nomad Geoservices Ltd.	Improving Gas Storage Deliverability Using 3D Seismic: A Case Study
C. Eichler ¹ , H. Bernhardt ¹ , R. Gjermundbo ² , T. Mortensen ³	(1) DEEP.KBB (2) Energinet.dk (3) Gas Storage Denmark	Coupled Gas Filling and Flooding Process of Two Caverns
Jay Evans ¹ , Tom Shaw ²	(1) Global Gas Group LLC (2) LK Energy LLC	Storage of Hydrogen in Solution Mined Salt Caverns for Long-Duration Energy Storage
William M. Goodman		1920 To 1940 Were Transformative Years for the U.S. Salt Mining Industry: New Mines, New Methods and a Major New Market
Kevin Heiberger	RESPEC	Stress Analysis of a Production Casing for a Cavern Developed Beneath an Existing Cavern Field
Pablo Rodriguez	Enstor Gas LLC	Effect of Heat Transfer on Gas Storage Cavern Operations
Sophie Minas	WSP USA	The Instability of Salt Cavern Hanging Strings and Proposed Completion Modifications
Keith Jenkins, Mark Villarreal, Kristaq Mitrushi	Enventure Global Technology	Addressing Cavern Sealing and Cementing Issues using Solid Expandable Tubular Technology
Byoung Park	Sandia National Laboratories	Geomechanical Evaluation of the Stability of Abandoned Cavern 4 in Bayou Choctaw Salt Dome
Barry Roberts ¹ , Anna Lord ¹ , Drew Evans ²	(1) Sandia National Laboratories (2) Geostock Sandia	West Hackberry Salt Dome Mapping Refinement
Drew Starnes	Crestone NDT	Potential Health Hazard to Workers from the Presence of Regulated TENORM on Gas Liquid Storage Caverns
Samuel Voegeli	RESPEC	Accuracy of Temperature Logging for Calculating Gas Inventories in Storage Caverns
Marek Cala ¹ , Katarzyna Cyran ¹ , Michal Kowalski ¹ , Pawel Wilkosz ² , Rafal Derdowki ² , Lukasz Gryzbowski ²	(1) AGH University of Sciences and Technology (2) Gas Storage Poland (3) Adam Mickiewicz University	Stability Evaluation for Redesign the Cavern Shape
Aurélien Soubeyran, A. Rouabhi, C. Coquelet	MINES Paris Tech	Effect of Carbon Dioxide Dissolution Into the Brine on the Storage Conditions
Brandon Schulte	WSP USA	Application of a Novel Plug and Abandonment Method in a US Gulf Salt Dome

SPONSORSHIP INFORMATION



SOLUTION MINING
RESEARCH INSTITUTE
www.solutionmining.org

2021 Virtual Conference Sponsor Opportunities: 19–22, April 2021

Sponsorship Level

Recognition Includes:

Gold

\$5,000

- ◆ Two free conference registrations
- ◆ Virtual display table in the Vendor Exhibit Hall as part of their sponsorship, consisting of a web page for the sponsor to display a PDF of company information or catalog, product video, and a potential for Q&A sessions with attendees.
- ◆ Sponsor's logo displayed as a **Gold Sponsor** on the conference registration page, on the Technical Program web portal, listing as a **Gold Sponsor** in the Call for Paper and Conference Announcement (if submitted prior to publishing), and 'podium mentions' during Membership Business Meeting
- ◆ Acknowledgement of sponsorship displayed on SMRI website during conference registration through the conference conclusion

Silver

\$2,500

- ◆ One free conference registration
- ◆ Display area in the Vendor Fair. The display area is a shared web page that will allow the sponsor to display a PDF of company information or catalog.
- ◆ Sponsor's logo displayed as a **Silver Sponsor** on the conference registration page, on the Technical Program web portal, listing as a **Silver Sponsor** in the Call for Paper and Conference Announcement (if submitted prior to publishing), and 'podium mentions' during Membership Business Meeting
- ◆ Acknowledgement of sponsorship displayed on SMRI website during conference registration through the conference conclusion

Bronze

\$1,000

- ◆ Sponsor's logo displayed as a **Bronze Sponsor** on the conference registration page, on the Technical Program web portal, listing as a **Bronze Sponsor** in the Call for Paper and Conference Announcement (if submitted prior to publishing), and 'podium mentions' during Membership Business Meeting
- ◆ Acknowledgement of sponsorship displayed on SMRI website during conference registration through the conference

Other Options

- ◆ Prize Sponsorship related to Ice Breaker and/or Conference Wrap-Up
- ◆ Please Contact Dawn for more information

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.

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.

Sponsorship payment is required one month before the start of the conference.

SMRI is unable to allow advertising at our conferences, as it would jeopardize our non-profit organization status. Accordingly, SMRI will avoid any appearance of endorsement of any company or product, which will also ensure fairness to all SMRI Members. For purposes of this policy, 'advertising' includes, but is not limited to, banners, signs or booths.

For additional information or sponsorship forms, please contact:

Dawn Langlinais

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