Technical Papers

Important Dates and Deadlines for Authors

14 June 200- to 500-word abstracts due; e-mail to Program Chair. See Call for Papers for instructions and details
5 July Notification of paper acceptance; With speaker/author guidelines
7 July Preliminary paper/author/co-author list available; later revisions posted as necessary
16 August Final paper copy due; e-mail to Program Chair
23 September Day 1 of Technical Session
24 September Day 2 of Technical Session

Speakers must e-mail their proposed title with a 200 to 500 word abstract to Eric Busch, 2019 Program Chair, by 14 June 2019. See the Call for Papers for author instructions and details. The preliminary list of selected papers will be posted 7 July online, with later revisions to be posted as necessary.

For further program or author questions, please contact:

Program Chair
Eric Busch
Lonquist & Company, LLC
Phone: +1 713-559-9953
eric@lonquist.com

Assistant Program Chair
Andreas Reitze
SOCON Sonar Control Kavernenvermessung GmbH
Phone: +49 5121 99819-28
reitze@socon.com

Technical Class

“Mechanical Integrity Testing (MIT) and Techniques in Gas and Liquids Storage Caverns”

(optionally, same subject as the Spring 2019 conference in New Orleans)

Sunday, 22 September 2019, 8:00 AM–5:00 PM, Limited Capacity
See class instructors and topics list on last page of this announcement

Technical Class "Mechanical Integrity Testing (MIT) and Techniques in Gas and Liquids Storage Caverns” is designed as a beginning and refresher course in conducting and analyzing these tests, along with a survey of regulatory drivers. The tentative list of topics includes fundamentals and physical principles of these tests, techniques, common practices (case histories), analysis and reporting, quality assurance, and needs/requirements of end-users of test results. The course will address testing of gas-filled caverns, and tests that monitor interface depth and amount of a light test medium such as nitrogen or hydrocarbon over brine. The scope of topics will complement with minimal overlap the information presented during the 2017 course “Well Integrity Management for Salt Caverns”. The 2017 course primarily addressed comprehensive programs for integrity management, over the cavern life cycle, while the 2019 class focuses on test techniques and analysis.

SMRI tech classes always allow time for discussions and questions, and there are opportunities for making new friends and having related discussions during breaks and lunch. Each class participant will receive a USB drive of the class papers and conference papers, and has option to order/purchase a printed Class Book during online registration.

For class questions, please contact:

Technical Class Chair
Dieter Brückner
IfG Institut für Gebirgsmechanik
Phone: +49 341-336-00-223
dieter.brueckner@ifg-leipzig.de

SMRI Technical Class
Organizing Committee:
Peter Jordan, Fritz Wilke,
Dieter Brückner, and René Schneider.

Technical Class Registration Fees

Members $400
Member Regulator $150
Non-Members $650
Non-Member regulator (must contact John Voigt) $400
Students, if space is available: no charge (must contact René Schneider)
Schedule of Events

Saturday
21 September
8:00 am–12:00 pm: Research Committee Meeting
1:00 pm–5:00 pm: Leadership/Executive Committee Meeting

Sunday
22 September
8:00 am–5:00 pm: Technical Class, “Mechanical Integrity Testing (MIT) and Techniques in Gas and Liquids Storage Caverns” (optional, same class as Spring 2019, New Orleans)
6:30 pm–8:30 pm: Icebreaker Welcome Reception, optional, no charge

Monday
23 September
8:00 am–10:00 am: SMRI Business Meeting (members only)
10:30 am–11:00 am: Oral Research Report
11:00 am–5:00 pm: Technical Papers Session, day 1
9:30 am–12:30 pm: Friends and Spouses tour of Berlin
12:00 pm–1:30 pm: Delegates Lunch
6:30 pm–10:00 pm: Evening dinner event: Classic Remise Berlin

Tuesday
24 September
8:00 am–5:00 pm: Technical Papers Session, day 2
9:00 am–5:00 pm: Friends and Spouses tour of Potsdam
12:00 pm–1:30 pm: Delegates Lunch

Wednesday
25 September
Technical Field Trips (2 choices, optional) times are tentative, and may change, each is an all day field trip.
Field Trip #1—Falkenhagen (Brandenburg (Prignitz), Germany)
Field Trip #2—Freiberg (Saxony, Germany)

Registration Fees

Each person attending any part of the technical conference must be in the SMRI database and must register for the conference. If you cannot login to the website and know you have a record to update, please contact John Voigt or John Nadeau. Online registration and payment in advance is required by all persons attending. No registrations will be held or accepted without payment. All attending non-technical spouses and friends must be registered as “guests” before completing your registration's online payment. Space for most events is limited.

Registration fees includes $150/day for breakfast, lunch, coffee breaks, printed materials, AV, and a USB drive of tech paper files, but NOT printed class books.

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<thead>
<tr>
<th>Category</th>
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<tr>
<td>Non-members</td>
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***University students of related subjects must contact René Schneider for discount details and applications if you wish to attend for zero registration cost. Members-if you know local professors of subjects related to SMRI, please pass this announcement on to them with your invitation.

Fall 2019 Sponsorships

SMRI appreciates sponsorships and financial support of our conference activities and expenses. SMRI’s 2019 sponsorship information is available online through Dawn Langlinais (dawnL@solutionmining.org; +1 918-914-2499).

No commercial advertising is accepted, but SMRI will acknowledge sponsor contributions.

Thank you to the Fall 2019 Berlin SMRI Conference Sponsors:

**PLATINUM:** Lane Power & Energy Solutions, Inc; WSP USA

**GOLD:** Atkins Limited; DEEP.KBB GmbH; Sonic Surveys, Inc.

**SILVER:** Agapito Associates; RESPEC; and UGS GmbH

**BRONZE:** Cavern Solutions, Inc.; Lonquist & Co. LLC; Sabine Storage & Operations, Inc.; Seal-Tite International; and SOCON Sonar Control Kavernenvermessung GmbH

(As of 27 June, 1 Silver sponsorship is available. The deadline for sponsors to sign up for Fall is 23 August, if any remain)
Technical Field Trips

**Wednesday 25 September 2019**

Early registration is strongly suggested for all these field trips, and only those on waiting lists and cleared by security will be substituted if cancellations occur! For each field trip, security requirements, suggested safety gear to wear/bring, physical condition necessary to tolerate environmental conditions, and any other limitations on participants will be emailed to those registered. Each participant must be in good physical shape, able to walk on rough ground and climb stairs, and understand and follow directions. SMRI reserves final right to limit participants to those passing security checks and screening. Each field trip costs $125 and lunch is included.

**Field Trip #1—Falkenhagen (Brandenburg (Prignitz), Germany)**

In Falkenhagen, Uniper Energy Storage has constructed the world’s first demonstration plant for storing wind energy in the natural gas grid. The plant stores electricity generated by wind turbines. Around 360 Nm³/h of hydrogen is generated by means of electrolysis and fed via a 1.6 km hydrogen pipeline into the gas grid. In May 2018, the facility was expanded to include a methanation plant.

**Field Trip #2—Freiberg (Saxony, Germany)**

Freiberg is a historic mining town with a mining history of over 800 years. Its historic town centre has been placed under heritage conservation and is a chosen site for the proposed UNESCO World Heritage Site known as the Ore Mountain Mining Region. The field trip includes a tour through the Freiberg silver mine and a visit to the “Terra Mineralia,” one of the world’s most famous mineral exhibitions.

Research Presentation

Depending on research project estimated completion dates, it is likely there will be one oral research report presented Monday morning at this conference: SOCON Sonar Well Services RR2019-2 SPR flow-induced vibration test provides the interpretation of data developed in a field test of flow-induced deformation executed in a crude oil storage well at the West Hackberry salt dome.

Hotel Information

*Crowne Plaza Berlin City Centre*

Nürnberger Str. 65
10787 Berlin, Germany

Standard room, single occupancy: 169.00 EU (approx. 190.00 USD)
Standard room, double occupancy: 179.00 EU (approx. 200.00 USD)
Breakfast and wifi included.

**RESERVATIONS:**

By Phone: +49 30 210070
(72-hour minimum notice of cancellation required for full refund)

Click Here for Website Reservations

Any cancellations, with full refund, must be made by Aug 25.

Conference Assistance

**For Registration Assistance, Payments, Spouse/Evening Events, Visa Letters:**

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

**For SMRI Membership Issues:**

John O. Voigt
Executive Director
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jvoigt@solutionmining.org

**For Technical Field Trip Questions**

Rene Schneider
European Coordinator
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rschneider@solutionmining.org

**For Login and Database Assistance:**

John Nadeau
Assistant Executive Director
Phone: +1 518-348-6995
jnadeau@solutionmining.org

Future Conferences

**Spring 2020**

Detroit, Michigan, USA
26-29 April
Class topic: Cavern Abandonment

**Fall 2020**

Krakow, Poland

**Spring 2021**

Rapid City, South Dakota, USA

Travel Information

Berlin is serviced by two airports: Schönefeld and Tegel. Tegel airport is located 4 miles from the Crowne Plaza. Rail and bus transportation available.
ADDITIONAL ACTIVITIES

ICEBREAKER WELCOME RECEPTION
Sunday 22 September, 6:30–8:30 pm, Registration Required

To open the conference, SMRI invites all participants (including spouses and friends) to this informal reception. Attendance is free for delegates and their first guest ($50 for each additional guest), so come, relax, and enjoy an evening of light appetizers and the camaraderie of friends and colleagues to officially begin the conference.

BUSINESS MEETING
Monday 23 September, 8:00–10:00 am (SMRI Members Only)

The SMRI business meeting will be held Monday morning to transact business of the Institute. All members are welcome, including all staff of member organizations, not only voting representatives.

SPOUSE AND FRIENDS ATTENDANCE

Spouses and friends are always welcome at SMRI conferences. Friends will not be technical delegates. Spouses and friends are invited and welcome to the Icebreaker Reception, the Monday Night Dinner, and the Monday and Tuesday Tours. Participation in these activities is OPTIONAL, and spouses and friends must be pre-registered and paid by 6 September. Registration depends on space available. We are sorry but do not offer the option for spouses/friends to join SMRI lunches this meeting. Please dress for the weather, and wear your name badge.

SPOUSES AND FRIENDS PROGRAM
Monday and Tuesday 23 and 24 September (Optional)

Spouses and friends are always welcome at SMRI conferences. Plans include two spouses/friends local tours, tentatively:

Monday: ($75, lunch not included) Participants tour Berlin by bus and on foot from 9:30 am–2:30 pm. There will be a lunch stop, but the price of lunch is not included. Sites include Brandenburg Gate, Gendarmenmarkt, Checkpoint Charlie, Original Berlin Wall, and more.

Tuesday: ($150, lunch included) There will be a bus trip to Potsdam, a UNESCO World Heritage Site and the capital of Brandenburg. Potsdam is located on the banks of the Havel River and a short distance from Berlin. With its authentic charm, picturesque brilliance and rich history, the city is a cultural gem. The tour includes visits to Castle Cecilienhof and Palace Sanssouci and Gardens. Lunch is included at Brauerei Meierei Potsdam—a restaurant and brewery. Optional guided city walking tour, after which you may stay in the French Quarter or continue back to the hotel with the guide.

MONDAY NIGHT DINNER AT THE CLASSIC REMISE BERLIN
Monday 23 September 6:30 pm–10:00 pm (Optional, $125 per person)

The Classic Remise Berlin, a center for vintage cars, was opened in 2003 in a historic tram depot originally built in imperial times, beginning in 1899. Some architectural changes to the building were made in the 1920s. There were limited damages during the war; firebomb damage can still be seen on the ceiling. After the tram system was abandoned in then West Berlin in the 1960s, the depot was left to decay until 2002 when the current owners converted it to a classic car center. Unlimited viewing of cars, a buffet dinner, and a hosted bar will be enjoyed from 7:00 pm–9:30 pm. Transportation is provided.

Attire

Casual attire is suggested for the meeting and all associated events. For the Monday and Tuesday spouses/friends tours and the Wednesday field trips, comfortable clothes for outdoor weather, including sturdy shoes appropriate for walking are suggested. Please check the weather forecast and be prepared for variable weather. Field trip attire will be noted for each field trip instruction sheet at the conference.
# "Mechanical Integrity Testing (MIT) and Techniques in Gas and Liquids Storage Caverns"

**SMRI Technical Class Schedule**  
**Sunday, 22 September 2019, Berlin, Germany**

Class is repeated from the Spring 2019 Conference in New Orleans

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<td>Basic Procedures for Borehole (Gas or Liquid Over Brine) MIT's, Pressure Observation Tests and Cavern Gas Tightness Tests</td>
<td>Survey of cavern MIT Methods</td>
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<td>Brandon Lampe, WSP USA</td>
<td>How Heat Transfer Can Influence MIT Results</td>
<td>Case study and modeling of heat transfer and thermal effects.</td>
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<td>Arnaud Réveillère, Geostock</td>
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<td>Technical and regulatory requirements for MITs and associated aspects in selected European countries.</td>
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<td>Joe Ratigan, Ratigan Engineering &amp; Consulting LLC</td>
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<td>Regulatory requirements for MITs in North America</td>
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<td>René Schneider, DEEP.KBB GmbH</td>
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<td>Pierre Bérest, (Ecole Polytechnique LMS) and Benoît Brouard, (Brouard Consulting)</td>
<td>Possibilities and Limitations of MITs in Boreholes and Gas-Filled Caverns</td>
<td>Processes driving wellhead pressure evolution during a Nitrogen or light hydrocarbon MIT; analysis to cross-check test results.</td>
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<td>Case history of detection of the location of a casing leak.</td>
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<td>Ken Roane, Sabine Storage &amp; Operations, Inc.</td>
<td>-- Case History – Liquid Storage Cavern MIT with Large Diameter Wellbore</td>
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<td>Nils Skaug, WSP USA</td>
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<td>Grégoire Hevin, Storengy</td>
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<td>Pierre Bérest</td>
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