



**SOLUTION MINING  
RESEARCH INSTITUTE**  
www.solutionmining.org

## FALL 2018 CONFERENCE

### CALL FOR PAPERS & FIRST ANNOUNCEMENT



## Join Us in Belfast, Northern Ireland, UK!

23–26 September 2018

### Registration

**SPACE WILL BE LIMITED:** Only the first 200 delegates who register will attend this conference due to conference room capacity. Please register early to ensure your space. The official conference announcement will be e-mailed to members and posted on the SMRI website 9 July 2018.

*On-line registration for members starts*

**16 July**

*Non-member registration starts*

**16 August**

*Registration ends (last day)*

**2 September**

*If space is still available, late registrants will pay a \$250 late fee starting 3 September, and will not receive USB sticks or optional books. It is possible that the conference will be filled to capacity before 3 September, so please register early if you plan to attend!*

### Research Presentations

Depending on research project estimated completion dates, one oral research report will likely be presented at this conference. Expect more details in the conference announcement.

### Spouses/Friends Program

Monday and Tuesday, 24 and 25 September (Optional)

**Spouses and friends are always welcome at SMRI conferences.**

Plans include an optional spouses/friends program, tentative:

**Monday** Guided city tour on a private coach, followed by a “Titanic Boat Tour” of Belfast Harbour

**Tuesday** Bus tour causeway coastal route, including the giant causeway, Dunluce Castle, Bushmills Whiskey Distillery, and Lunch

### Schedule of Events

|                 |                     |   |
|-----------------|---------------------|---|
| <b>Sunday</b>   | <b>23 September</b> | <b>Technical Class</b> , (Introduction To) “Engineering Calculations in Solution Mining” (optional, repeated from Spring 2018 Salt Lake City) |
| <b>Monday</b>   | <b>24 September</b> | <b>SMRI Business Meeting</b><br><b>Oral Research Report (Tentative)</b><br><b>Technical Conference</b>  |
| <b>Tuesday</b>  | <b>25 September</b> | <b>Technical Conference</b>   |
| <b>Thursday</b> | <b>26 September</b> | <b>Technical Field Trips</b> (1) Geology of Northern Ireland and (2) Irish Salt Mining, Carrickfergus (Northern Ireland, UK) (Optional)       |

### Fall 2018 Sponsorships

SMRI is happy to accept sponsorships and appreciates financial support of our conference activities and expenses. Please contact John Voigt for more information or to sign up as a sponsor. Belfast sponsorships may be full before the 22 August deadline.

*We thank these sponsors of the Fall Belfast 2018 SMRI Conference:*

**GOLD:** DEEP.KBB GmbH; Sonic Surveys, Inc.; and WSP USA.

**SILVER:** Agapito Associates, Inc.; Geostock; and Lane Power & Energy Solutions, Inc.

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

*(Still available as of 25 April 2018 are 0 Gold, 1 Silver, and 1 Bronze sponsorships)*

### Hotel Information:

#### Hilton Belfast

4 Lanyon place, Belfast, PT1 3LP, UK

Prices include breakfast and VAT. Single room rate: € 135.00 per night, double room € 145.00 per night.

Additional information about the hotel and travel may be in the conference announcement, which is scheduled to be e-mailed and posted about 9 July 2018. After that, updates as necessary will be posted on the website.

### HOTEL RESERVATIONS:

Hilton Hotel Belfast link is already active on the SMRI website, please use code: GSOLU. Please make your own reservation and realize that discounted SMRI hotel room block may fill up.

### Travel Information:

Belfast is served by two airports: George Best Belfast City Airport in the city, and Belfast International Airport 15 miles (24 km) west of the city. Rail transportation is also available. The hotel does not offer shuttle service to/from the airport. Flights are available to Belfast from North America via London, Amsterdam, Dublin, or other major European airports.



# Call for Papers for Technical Session

Monday 24 September and Tuesday 25 September

## ABSTRACTS DUE 11 JUNE 2018

Papers are solicited on all aspects of solution mining and the use of caverns including, but not limited to:

### DISCIPLINES:

- Geology
- Geophysics (especially pertaining to top- and edge-of-salt deposit imaging and verification)
- Geochemistry
- Health, safety, and environmental
- Rock mechanics and subsidence
- Drilling and well completion
- Solution mining (rock salt, potash, trona, and other salts)
- Cavern construction, monitoring, and operation
- Surface facility design, construction and operation

### TECHNOLOGIES:

- Cavern testing (Mechanical Integrity Test, sonar, etc.)
- Cavern backfilling, sealing, and abandonment
- Cavern utilization for energy storage

### APPLICATIONS:

- Brine production of salt, potash, trona, or other water soluble minerals
- Liquid hydrocarbon storage
- Natural gas, hydrogen, and other gases storage
- Renewable energy storage (compressed air and hydrogen)

Speakers should e-mail the title and a 200 to 500-word abstract to Dieter Brückner, 2018 Program Chair, by Monday 11 June 2018. The abstract should clearly describe the paper and should have a short, descriptive title. Approximately twenty papers will then be selected for presentation at the conference.

11 June 2018 Abstracts of papers due; e-mail directly to the Program Chair

25 June 2018 Speakers will be notified of acceptance

16 August 2018 Final copy of the paper due in SMRI format; e-mail to the Program Chair

In appreciation, technical session speakers (one person per paper) will pay a reduced conference registration fee, and will be guest of SMRI for the Monday evening dinner/event. For non-member organizations/authors, limit of one reduced fee registration per 3 year period is now in effect. For further technical program or author information, or subject questions, please contact:

### Program Chair 2018

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## Technical Field Trips

(Optional)

There will be two Wednesday field trips; additional information will be in the conference announcement. All SMRI field trips require participants to be in good physical condition, have the ability to walk on rough ground, and dress appropriately as necessary (such as wearing warm clothes and sturdy shoes). There will be limited capacity on both trips. Tentative plans include visits to:

**Field trip #1:** Geology of Northern Ireland—Travel along the scenic northeast coast of Northern Ireland with stops at fascinating geological, historical, and cultural spots including caves, the Dunluce castle, and the famous Giant's Causeway (a UNESCO world heritage site).

**Field trip #2:** Irish Salt Mining and Exploration—Salt mine produces deicing rock salt at the underground Kilroot mine near Carrickfergus, which is the only salt production facility in Northern Ireland. The mine is located about 20 km north of Belfast. This field trip is limited to 28 people due to limited capacity for the salt mine visit.



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## Technical Class “Engineering Calculations in Solution Mining”

Sunday, 23 September 2018

(Optional, must be registered for the conference to take the class. Class will be repeated from spring 2018 Salt Lake City, limited to class size of 60 maximum, so register early)

Technical Class “Engineering Calculations in Solution Mining” is designed for beginners (or as a refresher for veterans) in the field. This class will explain and review some of the typical calculations used in cavern operations and will include plenty of time for your questions. The Technical Class will be a series of lectures presented by several topic-expert lecturers using hands-on examples of calculations commonly made in the solution-mining practice. Approximately 15 topics will be covered in sessions involving a brief description, followed by the instructor's illustrative calculation, followed by a typical hands-on calculation (done individually or by small teams).

SMRI technical classes always allow time for discussions and questions, and there are opportunities for making new contacts 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 the option to order/purchase a printed class book during online registration. For more details, you may contact the Technical Class Chair, Scott Rouze.

### Technical Class Chair 2018

Scott Rouze  
Enbridge  
Phone: +1 281-788-5016  
scott.rouze@enbridge.com

## Future SMRI Conferences

Spring 2019  
7–10 April

New Orleans, Louisiana, USA  
Will be normal SMRI format. Optional Technical Class 2 days of technical papers, and an optional field trip. (Class Topic to be determined)

Fall 2019  
29 September–  
2 October

Bratislava, Slovakia (tentative)  
Will be normal SMRI format. Optional Technical Class, 2 days of technical papers, and an optional field trip. (Class Topic to be determined)

## Conference Executives

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