

SOLUTION MINING RESEARCH INSTITUTE

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To the SMRI membership and interested non-member individuals:

Questionnaire to update the SMRI Research Plan

This questionnaire was distributed at the Groningen Fall 2014 business meeting, and many members completed the survey already, but we will gladly accept your completed answers until 28 February 2015. Any employee of a member organization or non-member organization may complete this questionnaire.

Please complete the questionnaire, and return it by 28 February 2015 to Gérard at gerardd@solutionmining.org

1. What is this questionnaire for?

SMRI's Research Plan is the product of the SMRI Research Committee. The Plan reflects the views and opinions of the SMRI membership and forms the basis for issuing Requests for Proposals (RFPs). Definition of RFPs is the responsibility of the Research Committee who directs the Research Coordinator to develop and issue RFPs.

The Research Committee seeks regularly to update the Research Priorities. To assist in the development of this update, this questionnaire was developed. The results will be collected and evaluated to give a general overview of the SMRI membership's opinion of research needs, and therefore assist in identifying potential RFPs. Please complete this questionnaire and submit it, to help us develop a responsive research program for our industry.

2. Who is answering this specific questionnaire?

2.1	Company	
2.2	Name	

3. What are your company's salt cavern operations?

>>>>>Check your appropriate choice. More than one is possible.

3.1 Type of operation

Check here

- NaCl production
- Non-NaCl production (e.g. potash)
- Hydrocarbon storage
- Other storage (e.g. hydrogen, air, ...)
- R&D / University
- Regulator
- Contractor / Service company
- Engineering company
- Other:

3.2 Type of deposit(s)

(only operators need to complete this section; more than one option can be checked)

- Layered
- Pillow
- Domal
- Depth range (e.g. 1000 – 1500 metres)

3.3 Production/Storage

(only operators need to complete this section)

- Number of wells
- Total geometric cavern volume (in 10⁶ m³)
- Number of employees for cavern operations

4. How do you evaluate SMRI's research efforts?

>>>>>Please use the scale: 1 = "do not agree at all" to 5 = "totally agree".

4.1 Your thoughts on completed SMRI research projects:

Check here

- Results of SMRI research benefit your company 1 2 3 4 5
- Results of SMRI research are applicable in day-to-day operations 1 2 3 4 5
- Results of SMRI research are useful in planning and project development 1 2 3 4 5
- RFP's focus on needs of SMRI membership 1 2 3 4 5
- Research delivers 'value for the money' 1 2 3 4 5
- SMRI sends out too many RFP's 1 2 3 4 5
- Results of research are easy to access by the membership 1 2 3 4 5
- Topics addressed in RFP's are well balanced 1 2 3 4 5

4.2 To what fields should future SMRI research be directed? Check here

Geological characterization of domal deposits	1	2	3	4	5
Geological characterization of bedded deposits	1	2	3	4	5
Geomechanics of domal deposits	1	2	3	4	5
Geomechanics of bedded deposits	1	2	3	4	5
Drilling & completion	1	2	3	4	5
Workovers	1	2	3	4	5
Logging / surveying	1	2	3	4	5
Subsidence	1	2	3	4	5
Gas thermodynamics	1	2	3	4	5
Leaching simulation for bedded deposits	1	2	3	4	5
Abandonment procedures	1	2	3	4	5
Tubular corrosion, ruptures, deformations	1	2	3	4	5
Gas quality issues	1	2	3	4	5
Metering	1	2	3	4	5
High frequency cycling of salt storage caverns	1	2	3	4	5
Use of salt caverns for renewable energy storage	1	2	3	4	5

4.3 Your additional subjects for future SMRI research, if any:

- 1.
- 2.

Thank you for your time and effort! Results will be presented at Spring 2015 Conference.



SMRI Research Coordinator