2021 International Workshop on Underground Oil/Gas Storage



Second Announcement & Call for Participants

August 6-8, 2021 I Shenyang, China

----- • Sponsored by • ·



Northeastern University



Chinese Society for Rock Mechanics and Engineering

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Northeastern University



China Petroleum Pipeline Engineering Co., Ltd.



Liaohe Oilfield of China National Petroleum Corporation



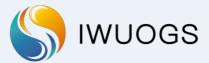


NEU School of Resources and Civil Engineering





About IWUOGS 2021



The International Workshop on Underground Oil/Gas Storage (IWUOGS) will be held on August 6-8, 2021 at Northeastern University in Shenyang, China. It had been approved as a CSRME Top-level Forum.

The purpose of this workshop is to promote the state-of-the-art theories and technologies on the design, construction and operation of underground oil/gas storage facilities.

This workshop is sponsored by CSRME and NEU, is organized by NEU, China Petroleum Pipeline Engineering Co., Ltd., Liaohe Oilfield of CNPC, ISRM Commission on Design Methodology, and CSRME Rock Engineering Design Methodology Sub-society, and is co-organized by Sinopec Shanghai Engineering Co., Ltd., China University of Geosciences (Beijing) and Northeast Petroleum University.

The workshop will show the diversity of experiences by inviting experts from China, USA, France and other countries. The outcome of the workshop will contribute the development of theories and technologies related to underground storage in the field of rock mechanics and rock engineering.

Conference Themes

- 1. Rock mass characterization and geological mapping;
- 2. Fluid flow and coupling effects in rock mass;
- 3. Deformation and strength of rock mass;
- 4. Design methodology for underground storage facilities;
- 5. Stability and containment of underground storage facilities;
- 6. Construction and operation technologies;
- 7. Laboratory testing and field monitoring technologies;
- 8. Case studies and numerical methods;
- 9. Advance in underground oil/gas storage technologies.

Conference Form

- Keynote Presentations, Special Presentations (including young scholars and graduate students).
- ➤ The conference will select the award of excellent report, excellent paper, and award the certificate.

Committees

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Xia-Ting Feng

Derek Elsworth

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IWUOGS

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Invited Keynote Presentations



The workshop will show the diversity of experiences by inviting experts from China, USA, France, Singapore and other countries. The experts and their presentation titles are as follows. (to be updated)

Name & Affiliation	Presentation Title
Prof. Derek Elsworth The Pennsylvania State University	Scaling of fluid injection triggered seismicity and fault reactivation in subsurface storage and disposal
Prof. Dewen Zheng Research Institute of Petroleum Exploration and Development	Challenges and development prospects of oil and gas storage in China
Dr. Philippe Vaskou University of Cergy-Paris	Rock mass desaturation and mega wedge collapse in underground storage caverns: two major and fatal issues
Prof. Xiaoguang Li CNPC Liaohe Oilfield	Research on the key technology of reservoir construction in depleted oil and gas reservoir
Prof. Xiaofei Fu Heilongjiang Institute of Technology	Dynamic sealing of oil and gas underground traps
Prof. Jie Xu China Petroleum Pipeline Engineering Co., Ltd.	New problems in the construction of underground water-sealed caverns
Prof. Zhechao Wang Northeastern University	Hydrogeological model and application of underground water sealed cavern

Invited Special Presentations

The workshop will show the diversity of experiences by inviting experts from China, Canada, Sweden and other countries. The experts and their presentation titles are as follows. (to be updated)

Name & Affiliation	Presentation Title
Prof. Jianjun Wang CNPC Tubular Goods Research Institute	Selection, design and evaluation of gas storage string
Dr. Junchang Sun Research Institute of Petroleum Exploration and Development	Dynamic characterization of geological body and evaluation method of ultimate bearing capacity of deep complex fault block gas storage
Dr. Bin Xu Origin Geomechanics Inc.	Risk based analysis of maximum operating pressure for underground gas storage project: geomechanical perspectives and a Canadian experience
Prof. Shanpo Jia Northeast Petroleum University	Study on sealing performance evaluation of closed gas storage with water ring
Dr. Jianping Sun China Communications Construction Company Limited (Singapore Branch)	Seepage analysis for oil storage rock cavern in Singapore
Pro. Bin Zhang China University of Geosciences (Beijing)	Evaluation of water seal performance of underground water seal oil depot under tida environment of island
Associate Prof. Liping Qiao Northeastern University	Evaluation method and application of seawater intrusion in coastal underground water sealed caverns
Dr. Liangchao Zou KTH Royal Institute of Technology	Theoretical analysis of rock grouting: model development and verification

Conference Report



Participants who report to the conference, please submit the abstract before **July 30, 2021**. The abstract includes the following information: title, name, affiliation, professional title and post, contact information, E-mail, etc. The conference report PPT shall be prepared in 16:9 proportion. Please send the e-document of the abstract to the conference email: UOGS2019@hotmail.com (See Annex 1 for the abstract template.)

Conference Paper Submission

The normal registered participants can choose "Oil & Gas Storage and Transportation", "Journal of Rock Mechanics and Geotechnical Engineering" and "Bulletin of Geological Science and Technology" to submit conference papers.

The content of the paper should meet the theme of the conference, the format of the paper should conform to the format requirements of the selected journal, and the paper is not published publicly. When submitting the paper, please note the words "Conference Paper of 2021 International Workshop on Underground Oil/Gas Storage". After passing the review, it will be published in the main issue or supplement.

Deadline for conference paper submission: October 31, 2021. Please send the submission information feedback form to UOGS2019@hotmail.com before the submission deadline. See Annex 2 for details.

Note: the Organizing Committee of the Conference only recommends normal registered participants to submit papers. Whether the paper is accepted or not is decided by the editorial department of the journal according to relevant requirements.

Tentative Program



Date	Time	Contents	
August 6, 2021	14:30-22:00	Registration	
August 7, 2021	08:30-09:00	Opening Ceremony	
	09:00-12:00	Keynote and Special Presentations	
	14:00-17:30		
August 8, 2021	08:30-12:00	Keynote and Special Presentations	
	14:00-15:30		
	15:30-17:30	Panel Discussions and Closing Ceremony	

Conference Registration

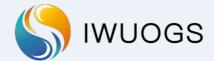
The time of on-site registration is <u>14:30 to 22:00 on August 6 (Chinese</u>

Standard Time) at 1st floor of NEU international hotel.

The conference registration fee for the normal participants is 3000 CNY, and for the student is 1500 CNY. The entourage of the normal participants is 800 CNY. The bank card is preferred for payment method.

Note: the conference registration fee includes conference registration, materials, meals, etc., and the accommodation and transportation expenses are at your own expense. Students provide valid certificates when registering.

The organizing committee will make the room reservation per the request of participants. Please confirm the room type and accommodation time before **July 28, 2021**, and fill in the attendance receipt form (Annex 3), which will be sent to the conference email: **UOGS2019@hotmail.com**



Conference Venue





NEU International Hotel

Address: #80, Wenti West Road, Heping Distract, Shenyang,

Liaoning, China

Tel: +86 024-8369-0000

Website: http://www.northeast-hotels.com

Conference Language

The official language of the conference is **English** or **Chinese**. We recommend that all reports and manuscripts submitted should be in English whenever possible.

Contact

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For more information on the conference, please access the website:

http://deepmining.neu.edu.cn/IWUOGS2021/







