



Society of Exploration Geophysicists
The international society of applied geophysics

Call for Contributions

2009 Summer Research Workshop
Banff, Canada • 23-27 August 2009

CO₂ Sequestration Geophysics

Abstract submission deadline: 2 April 2009

Advance registration deadline: 13 July 2009

Carbon Capture and Storage (CCS) has significant implications for reducing atmospheric CO₂ emissions, stabilizing global climate conditions, and for developing future environmentally-friendly energy technologies. One of the most promising CCS technologies is CO₂ geo-sequestration, in which CO₂ is captured at source and injected into deep subsurface geologic formations for long-term storage. There is an exponential growth of interest in the geoscience aspects of CCS, and an accompanying proliferation of research conferences and workshops dedicated to this topic. The upcoming joint AAPG/SPE/SEG Hedberg conference on CO₂ in Vancouver, Canada in August 2009 is such an example covering a broad range of geoscience CCS topics. Our SEG summer research workshop is instead highly focused, in coordination with the more general Hedberg, on the hard-core geophysics aspects of CCS, including rock and fluid physics, flow-to-seismic simulations, site characterization, CO₂ plume imaging and monitoring, quantitative CO₂ estimation and inversion, risk assessment, and novel case studies. There will be a strong emphasis on discussion and debate at our workshop, facilitated by keynote discussion leaders, experts, academics, and practitioners. Suggested topics:

- CO₂ sequestration challenges and the role of Geophysics
- Rock physics for CO₂/brine/oil mixtures
- Geophysical Modeling of CO₂ sequestration simulations
- Geophysical Site Characterization (rocks, storage capacity, faults, seals, risk...)
- Seismic Data Acquisition techniques for CO₂ (sparse, dense, active, passive...)
- Non-Seismic Data Acquisition techniques (EM, gravity, geodetic...)
- Geop. Data Processing / Imaging Issues specific to CO₂
- Geop. Data Interpretation challenges (CO₂ distributions, quantitative estimates...)
- Geop. Data Inversion challenges (quantitative CO₂ mass/ volume/ saturation...)
- New Geophysical CCS Case Studies from around the world

SEG 2009
Summer Research
Workshop

CO₂ Sequestration
Geophysics

23-27 August 2009 - Banff, Canada

ORGANIZING COMMITTEE

David Lumley, Chair, *U. Western
Australia*

Tom Daley, *LBL*

Kevin Dodds, *BP*

Ola Eiken, *StatoilHydro*

Lianjie Huang, *LANL*

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Meeting Schedule:

- Sunday, 23 August – Registration and Ice Breaker
- Monday, 24 August through Thursday, 27 August – Three full day sessions Monday, Wednesday, and Thursday with morning and afternoon sessions, and a half day session Tuesday evening. We will be arranging an optional field trip on Tuesday to the Columbia Ice Field Glaciers.

Abstracts: There are no formal proceedings from the Workshop. In an effort to encourage candor, presentations are made in an “off-the-record” spirit. However, participants are encouraged to distribute expanded abstracts of their own presentations.

Format: Abstracts should include sufficient detail for the committee to judge the quality of the paper. Abstracts should be a minimum of 1 page text plus 1 figure. Abstracts should be on 8.5 x 11 inch paper, include both text and figures with a one-or two-line title in bold font, size 12-14 points. Authors should be listed in italic font, size 10-12 points and text in Roman font, size 10-12 points. All text must stay 1 inch clear of the margins of the page. Submissions should be in Adobe Acrobat.

Oral and poster presentations will be offered.

Meeting Venue: The Banff Centre in Banff will have sleeping rooms available during your stay.

Submission: We recommend submitting your abstract electronically. You can email it to awatson@seg.org in PDF format. The other method of submission is through the mail. Please submit contributions to the organizers: c/o SEG Summer Research Workshop, 8801 S. Yale, Ste. 500, Tulsa, OK 74137-3575.

Sponsorship: Sponsorship opportunities are available by contacting Amy Watson at awatson@seg.org.

Acceptance: Direct participation of all Workshop attendees is mandatory. Participation may be through poster, oral presentation or discussion contributions. Neither oral nor poster presentations is a requirement in order to be accepted for registration. If the number of applicants exceeds the capacity of the conference facilities, then preference will be given to presenters.

Student Registration: Students are encouraged to submit papers. Students chosen to present will be considered to receive a discounted registration rate. All registration rates will be published at the time acceptance letters are sent out.

<http://seg.org/meetings/srw2009>



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Deadline: Thursday, 2 April 2009

PRINT IN BLACK INK OR TYPE

MR. MS. DR. STUDENT: YES NO

NAME _____

COMPANY / ORGANIZATION _____

MAILING ADDRESS _____

CITY _____ STATE _____

POSTAL CODE _____ COUNTRY _____

BUSINESS PHONE _____ FAX _____

E-MAIL _____

SELECT YOUR PREFERENCE: POSTER (ORAL INTRODUCTION) ORAL PRESENTATION NO PRESENTATION, DISCUSSION CONTRIBUTION ONLY

If presenting, please complete the following information and submit abstract via email or mail.

TITLE _____

DESCRIPTION _____

SIGNATURE _____

Note: The mechanical recording of any portion of the 2009 SEG SRW in any form (photographic, electronic, etc.) is strictly prohibited. Printed reference to the Workshop presentations or discussions is not permitted without the consent of the parties involved. All participants are requested to omit public reference to the Workshop proceedings in any published work or oral presentation. Only registrants are permitted to attend Workshop sessions. Each participant agrees to the above regulations when application is accepted, as indicated by his or her signature on this form.