

# GEM Beijing 2011

International Workshop on Gravity, Electrical and Magnetic  
Methods and Their Applications

October 10 – 13, 2011

International Conference Center at China University of Geosciences  
Beijing, China



**Society of Exploration Geophysicists**  
*The international society of applied geophysics*



Co-Organized by

The Society of Exploration Geophysicists  
The Chinese Geophysical Society

Supported by

China University of Geosciences

**First Announcement and Call for Papers**

<http://geophysics.mines.edu/cgem/gem2011.html>

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## Chair of the Local Organizing Committee

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## Goal

Significant advances in gravity, electrical, magnetic and remote sensing methods and technologies have been made recently while new types of geological targets, problems, and application settings bring new difficulties and challenges. Various industry and academic groups have applied these different geophysical techniques with noticeable successes in a wide range of areas including the exploration and development of oil & gas and minerals and investigation of environmental and engineering problems. Researchers and practicing geophysicists in different regions have developed innovative and successful approaches that are not widely known in the worldwide geophysical communities, whereas a lot of challenging exploration and engineering problems may not be exposed to researchers from different regions. The goal of this SEG/CGS workshop is to bring together experts from academia, government agencies, resources companies, and contractors to share the latest technological and methodological developments and successful experiences, and to discuss challenges and future directions and needs.

## Topics

### • Methodologies and Technologies

Instrumentation (land, marine, airborne and borehole) and field data acquisition

Processing, modeling, and interpretation algorithms

Integrated interpretation and joint inversion of multiple data sets

### • Oil & Gas Exploration and Production

Hydrocarbon prospect generation

Structural studies

Exploration in difficult areas: deepwater, volcanics, fracture, etc

Sub-salt and sub-basalt imaging

Heavy oil and oil sands

Reservoir monitoring

### • Mining & Geothermal Applications

Reconnaissance and regional structure mapping

Regional lithology and mineralogy prediction

Exploration under cover and at depth

Deposit delineation and characterization

Geothermal exploration and monitoring

### • Environmental & Engineering Geophysics

Carbon capture and storage

Geophysics in archaeology

Geophysics for groundwater and hydrology

Geoforensics

Geotechnical applications

## Abstract Submission

The workshop will consist of oral, poster, and invited presentations. Abstracts in English should be between two and four pages in length and written in the format of the SEG expanded abstract for the annual meeting.

## Sponsorship

We invite companies and organizations to sponsor the workshop. Please contact us for sponsorship opportunities.

## Contact Information

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## Important Dates

Deadline for abstract submission:

May 31, 2011

Deadline for early registration:

August 31, 2011

Workshop:

October 10 – 13, 2011