

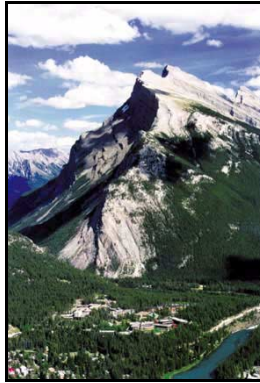


CREWES NEWS

The Consortium for Research in Elastic Wave Exploration Seismology

CREWES 2004 Sponsors Meeting

We are looking forward to meeting soon with our sponsors at the scenic Banff Centre for our 16th Annual Sponsors Meeting. For a final speakers schedule, see the article included in this issue of CREWES News or visit the Sponsors Meeting webpage at www.crewes.org, where complete information on the meeting can be found, including links to transportation information.



Wednesday evening reception



All meeting attendees are invited to attend the reception Wednesday evening at the Banff Center. This will be an opportunity renew old acquaintances, and to make new ones. Our appreciation to Rob Kendall and his associates at Veritas for sponsoring this event!

Thursday evening dinner

We are pleased to announce that WesternGeco has offered to sponsor a dinner for all meeting attendees on Thursday evening of the meeting. This will provide an excellent opportunity for all participants to enjoy a relaxed time together. Thanks to Jim Gaiser and his colleagues at WesternGeco! **CN**



New students at CREWES

In this and the next issue we will be introducing our new students. Two of our new colleagues, Yongwang Ma and Albert Zhang, are featured in this issue.



Yongwang Ma is from Eastern China, and received bachelors (1995) and masters (1998) degrees from China University of Geosciences in Wuhan (Central China). During these studies, his focus was on numerical modelling of seismic wave propagation with the pseudo-spectral method. In 2001 he came to Canada and began studying with Dr. Gerhard Pratt at Queen's University. In 2003 he received a Masters degree in geophysics for work on the propagation matrix method of reflectivity seismic modelling with application in gas hydrate exploration.

Yongwang is now enrolled in a Ph.D. program at the University of Calgary. With supervisor Dr. Gary Margrave he will be researching depth imaging and inversion problems in exploration seismology. We welcome him to our team!

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- New student introductions
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New students, cont'd

Duojun (Albert) Zhang is from Guangzhou in South-eastern China. He graduated with a Masters degree in 1993 from the University of Petroleum (China). Since then he has worked in many areas of petroleum exploration, including gravitational prospecting, VSP, acquisition, processing, and



interpretation. Some of his areas of specialty have included designing 3D surveys, creating 3D structural subsurface models, building reservoir models from seismic and well log data, and managing seismic survey tests in areas with basalt and tropical vegetation.

In his current program, Albert will focus his research efforts with Dr. Larry Lines on seismic methods for monitoring heavy oil recovery processes. During his spare time, he and his family enjoy traveling, shopping, and good food! **CN**

Sponsors Meeting Technical Sessions

Below is a schedule of technical sessions to be held Thursday and Friday during the Sponsors Meeting. In addition to the oral presentations, posters on a variety of research projects will be available for viewing and discussion throughout the three days of the meeting. **CN**

Session	Title	Speaker
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Thursday, November 18 Morning 8:30 - 11:45 a.m.

	Welcome and Overview	Robert Stewart
Ross Lake 3C-3D	Well log study and stratigraphic correlation of the Cantuar Formation and adjacent strata	Shaohua Li
	Estimating seismic attenuation (Q) from VSP data at a heavy oil field: Ross Lake, Sask.	Arnim Haase
	Impedance estimation from PP and PS seismic data: Ross Lake Oilfield, Sask.	Chuangdong Xu

Break

Seismic Acquisition	Testing the quality of geophone plants for 3-C seismic land data acquisition	Henry Bland
	Remote, wireless, permanent seismic stations: A mountain case	Robert Stewart
Experimental Methods	Spatial distribution of microseisms at Turtle Mountain	Zuolin Chen
Wave Propagation	Finite-difference modelling in a variable velocity medium; Finite difference AVO movies	Peter Manning

Break - Lunch, Computer Demos, Poster Viewing

Thursday, November 18 Afternoon 1:00 - 4:30 p.m.

Seismoelectric Wavelets, Decon	Coupled seismoelectric wave propagation in porous media	Mehran Gharibi
	Examining the phase property of nonstationary vibroseis wavelets	Linping Dong
	Minimum phase revisited	Jeff Grossman
	Compensating for attenuation by inverse Q filtering	Carlos Montaña

Break

Processing	Attenuating the ice flexural wave in Arctic seismic data	David Henley
	Deconvolution with multigrid	John Millar
Update	Overview of current and upcoming field projects	Don Lawton

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Sponsors Meeting Technical Sessions, cont'd

Session	Title	Speaker
Imaging	Research overview and Phase shift extrapolation operators	John Bancroft
	A new efficient approach to explicit wavefield extrapolation and depth migration	Gary Margrave
	Analysis of FOCI extrapolator versus other extrapolation methods	Saleh Al-Saleh

Break

	Automatic selection of reference velocities for recursive depth migration	Hugh Geiger
	Elastic wave-equation migration for laterally varying isotropic and HTI media	Richard Bale
Heavy Oil	Seismic methods in reservoir monitoring with applications to heavy oil production	Larry Lines

Break - Lunch, Computer Demos, Poster Viewing

Friday, November 19 Afternoon 1:00 - 4:30 p.m.

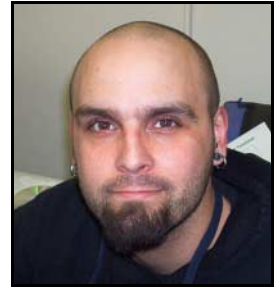
AVO Analysis	"Exploring" spherical-wave reflection coefficients	Charles Ursenbach
Shear-Wave Log Prediction	A case study in the local estimation of shear-wave logs	Brian Russell
Interpretation, Case Studies	Interpretation of PP and PS seismic data from the White Rose oilfield, offshore Newfoundland	Jessica Jaramillo Sarasty
GPR	Shallow GPR and seismic surveying in a carbonate environment: Belize, Central America	Julie Aitken

Break

Time-lapse, Monitoring	Reservoir characterization in Leming Lake, Alberta	John Zhang
	Monitoring fluid injection using time-lapse analysis: a Rainbow Lake case study	Hannah Ng
	Shallow P and S velocity structure, Red Deer, Alberta	Don Lawton
	Summary	CREWES Directors

CREWES Staff Member goes 'Down Under'

CREWES staff member Chris Harrison will be leaving CREWES this month. He has been accepted into the geophysics graduate program at Curtin University in Perth, Australia. Chris received Bachelors degrees from the University of Calgary in Physics (1999) and Geophysics (2001). He has worked for CREWES both as a MATLAB programmer, and also employing his unique skills as a graphics artist. His efforts in the latter area are visible in products such as the CREWES Research Collection series. We will miss Chris here, but wish him all the best in his new endeavour! **CN**



Making Contact...

Contact Note: Readers wishing to contact staff and students should add the domain, @ucalgary.ca, to the usernames listed below.

Directors:

Dr. Robert Stewart: stewart
Dr. Gary Margrave: margrave
Dr. Don Lawton: lawton
Dr. Larry Lines: lrlines

Associated Faculty Members:

Dr. John Bancroft: bancroft
Dr. Larry Bentley: lbentley

Administrative Manager:

Louise Forgues: forgues

Research Staff:

Henry Bland: bland
Dr. Zuolin Chen: zlchen
Dr. Pat Daley: pdaley
Eric Gallant: egallant
Dr. Arnim Haase: haaseab
Kevin Hall: kwhall
Chris Harrison: harrisc
Dave Henley: dhenley

Han-Xing Lu: hxlu

Dr. Rolf Maier: maier

Jeff Thurston: jthursto

Dr. C. Ursenbach: cursenba

Graduate Students:

Julie Aitken: jaitken

Saleh Al-Saleh: salsaleh

Richard Bale: rabale

Nancy (Zhihong) Cao: zcao

Fuju Chen: fjchen

Sandy Chen: qschen

Marcia Coueslan: mlcouesl

Liping Dong: dongl

Jon Downton: downton

Xiang Du: xdu

Pavan Elapavuluri: pkelapav

Jeff Grossman: jpgrossm

Jessica Jaramillo: sjmjaram

Amber Kelter: ackelter

Shaohua Li: shaoli

Kun Liu: kliu

Steve Lynch: lynchs

Yongwang Ma: yongma

Faranak Mahmoudian: fmahmoud

Peter Manning: pmmannin

John Millar: jdmillar

Monica Moldoveanu: ammoldov

Carlos Montaña: rcamonta

Kimberly Munro: kamunro

Carlos Nieto: nieto

Karen Pengelly: kjpengel

Natalia Soubotcheva: nsoubotc

Hannah Tran: tranh

Tingge Wang: tinwang

Mary (Chunyan) Xiao: cmxiao

Richard (Chuangdong) Xu: cdxu

Duojun (Albert) Zhang: dazhang

John (Jianlin) Zhang: zhang

Ying Zou: zou