



Geo-soundings

NEWSLETTER – MARCH 2009

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WELCOME

Welcome to the first edition of *Geosoundings* for 2009. This edition highlights the achievements of our students as graduates and awardees as well as their willingness to get involved with geophysical committees and affiliations. Academic staff and senior students have been busy presenting and publishing their research work at conferences and in journals. We again look forward to providing you with our news over the coming year.

ENROLMENTS 2009

Total enrolments for 2009 are:

BSc (Geophysics) Undergraduate and Honours	90
BSc (Geophysics)/BSc (Computer Science)	1
BSc (Geology/Geophysics)	27
Graduate Diploma	4
MSc (Geophysics) – Coursework	3
MPhil (Geophysics) – Research	2
PhD	21

2008 Graduates were:

Doctor of Philosophy

Kirsty Beckett
Dariush Nadri

Master of Science (Geophysics) by Coursework

Efthymios Efthymiou

Graduate Diploma in Geophysics

John Mitchell Ismail Yavuz
Raymond Veldkamp Liliana Zuleta Tobon

BSc (Geophysics) Honours

Hayley Anderson Andrew Pethick
Alexander Castiglioni Richard Presser
Michael McCrudden Dushyan Rajeswaran
Adam Palermo

BSc (Petroleum Geoscience) Honours

Abdulwahab Al Abri
Abdulaziz Al-Balushi
Issa Al Salmi

BSc (Geophysics)(CUT)/BSc (Computer Sci)(UWA)

Yau Wai (Roy) Choo
Andrew Pethick (mid-2008)

BSc (Geophysics)

Ahmad Al Shobeili	Timothy Lloyd
Faisal Al Fuhaid	Hussam Momenah
Mohammed Al Maghlouth	Dara Mullins
Abdulrahman Al Mulla	Steven Saul
Michelle Byett	Ronald Schop
Jack Chanmala	Jia Miin Sim
Michelle D'Alessio	David Stannard
Adrian Elsner	Andrew Taylor
Adam Gangemi	Chao Zhou
Sean Hughes	

STUDENT COMMITTEE MEMBERS

2009 KEGS Office Bearers (Member of the SEG-Student Section)

Following a meeting of the Geophysics student body, elections were held to elect the 2009 KEGS Committee. The results are as follows:

PRESIDENT:	Sean Simpson
VICE-PRESIDENT:	Reece Cunnold
SECRETARY:	Ali Shaiban
TREASURER:	Thomas Paten

GENERAL COMMITTEE MEMBERS:

Sam Sagers (First Year Rep)
Jesse-Lee Dimech (Third Year Rep)
Michelle Byett (Fourth Year Rep)

FACULTY ADVISOR:

Prof Boris Gurevich Phone: +618 9266-7359
Email: Boris.Gurevich@curtin.edu.au

Student Chapter of AAPG of Western Australia

Following a meeting of the Geophysics, Geology and Petroleum Engineering student body, PhD student **Yousuf Al-Jabri** was elected **Vice-President** of the 2009 Executive Committee. Congratulations Yousuf.

2009 PESA WA Student Committee

Congratulations to the following students: **Mr Jesse-Lee Dimech** has been elected as the **President** of the **WA PESA Student Committee** for 2009. The Vice President is **Mr Kenneth McCormack** and Committee Members are **Mr Reece Cunnold** and **Mr Yousuf Al Jabri**.

JOURNAL PUBLICATION

Lebedev, M., Toms-Stewart, J., Clennell, B., Pervukhina, M., Shulakova, V., Paterson, L., Mueller, T.M., **Gurevich, B.,** & F. Wenzlau, *Direct laboratory observation of patchy saturation and its effects on ultrasonic velocities*, The Leading Edge, January 2009, pp. 24-27.

Ciz, R., Saenger, E.H., **Gurevich, B.,** & S.A. Shapiro, *Temperature-dependent poroelastic and viscoelastic effects on microscale—modelling of seismic reflections in heavy oil reservoirs*, Geophysical Journal International, 176, pp. 822–832.

Harris, B., & A. Pethick, *Marine controlled source electromagnetic methods for hydrocarbon exploration*, Preview, December 2008, pp. 31-34.

Mueller, T.M., **Gurevich, B.,** & S.A. Shapiro, *Attenuation of seismic waves due to wave-induced flow and scattering in randomly heterogeneous poroelastic continu*, Advances in Geophysics, 2008, Vol. 50, Chapter 5.

Bóna, A., Slawinski, M. & P. Smith, 2009, *Ray tracing in two-dimensional inhomogeneous media: Bending method approach*: Geophysics: 74 (2), T25-32.

CONFERENCE PRESENTATIONS

Sun, Z., **Squelch, A.,** Allen, Y., Hartley, D., & M. Lawrence-Brown, 2008. *Three-dimensional stereoscopic visualization in the evaluation of fenestrated endovascular repair of abdominal aortic aneurysms*, in *Quencer, Robert M. (ed)*, 94th Scientific Assembly and Annual Meeting of the Radiological Society of North America, 30 Nov 2008, Chicago, USA: RSNA.

Squelch, A., & P. Bourke, *Challenges and possibilities in Visualisation*, Presented at the iVEC eResearch Forum 2009, 12 February 2009.

ASEG Conference,
Adelaide, Australia, 23-25 February 2009

Bóna, A., Cooke, D., *Velocity-less imaging of linearly inhomogeneous media in 3D*.

Lebedev, M., Gurevich, B., Clennell, B., Pervukhina, M., Shulakova, B., & T. Müller, *Velocity-saturation relation transition during rocks saturation: Direct laboratory observation by computer tomography and ultrasonic technique*.

Nadri, D., Bóna, A., & M. Urošević, *Nonlinear estimation of Thomsen anisotropy parameters in TI media*.

AlRamadhan, A., & B. Hartley, *3D travelttime inversion of induced micro-seismic events to construct a detailed velocity model*.

Al-Jabri, Y., Urosevic, M., Kepic, A., & B. Evans, *Assessing the repeatability of reflection seismic data in the presence of complex near-surface conditions CO2CRC Otway Project, Victoria, Australia*.

Greenwood, A., Urosevic, M., & A. Kepic, *Feasibility of the application of borehole seismology for hard rock exploration*.

Harrison, C., & M. Urosevic, *Towards direct detection of gold bearing rock formations from seismic data, St. Ives Gold Camp, Western Australia*.

Wisman, P., & M. Urosevic, *An elastic properties computation to predict 4D seismic effects for CO2 sequestration - A methodology*.

AWARDS/GRANTS/HONOURS

Laic Hawkins Award:

Congratulations to **Maxim Lebedev, Boris Gurevich, B. Clennell, M. Pervukhina, V. Shulakova,** and T. Mueller for *the most innovative use of a geophysical technique from a paper presented at the 20th ASEG Conference, held in Adelaide, February 2009*

Schlumberger Gold Award

Both **Dr Milovan Urosevic** and **Dr Anton Kepic** have been awarded the **2008 Schlumberger Gold Award** in recognition of their outstanding contributions to the program: **Carbon: Hot at Cooling the Climate**.

PESA Student Prize

Mr. Steven Saul has been nominated and will receive the **PESA Best Third Year Student Prize** for 2008.

Mr. Andrew Meng Leong Pethick has been nominated and confirmed to receive the **Elwood Horstman Prize**. This prize is offered to the 'best' performing Honours student from either Curtin's geophysics, geology, or chemistry areas, or UWA, who undertook a 'petroleum' related research project.

Award of Master of Philosophy

We congratulate **Mr Piyaphong Chenrai** who has passed his MSc Philosophy degree. His thesis entitled "*Geophysical exploration at the Comet Gold Mine, Western Australia*" was supervised by Assoc Prof Jayson Meyers.

UPCOMING EVENTS

EGU GENERAL ASSEMBLY
Vienna, Austria, 19-24 April 2009

**5TH CONGRESS OF BALKAN
GEOPHYSICAL SOCIETY**
Belgrade (Serbia), 10-16 May 2009

EAGE CONFERENCE & EXHIBITION
Amsterdam, 8-11 June 2009