



# Fold-Thrust Belt Exploration

## 14-16 May 2008

Wednesday 14 May	
09:00	Registration + coffee
09:45	Welcome and opening
Opening Session (chair Graham Goffey)	
10:00	Cooper, Marc (Sherwood Geoconsulting) <u>KEYNOTE</u> : Structural style and hydrocarbon prospectivity in Fold and Thrust Belts: a Global Review
10:40	Scott R (CASP Cambridge), Howard JP, Schekoldin R, Li Guo, Omma JE Curvature of the Novaya Zemlia Fold-and-Thrust Belt and its relationship to the subsidence history of the Eastern Barents Shelf
11:05	Golonka, Jan (Krakow Univ.) & Pietsch, Kaja Normal, blind, thrust and strike-slip faults - record of the geodynamic history of the West Outer Carpathians, Poland
11:30	Tea / Coffee
12:00	Sepehr M (NIOC Iran), Sherkati S, Abdollahifar I The future exploration targets of the Zagros Fold-Thrust Belt
12:25	Flottman, Thomas (Santos Ltd) & McClay, Ken Multiphase shortening and synorogenic sedimentation in the Zagros Fold-Thrust Belt, Iran- Impacts on hydrocarbon trap formation
12:40	Lunch



Session 1: Overview (chair Andy Whitham)

14:00	<b>Graham, Rod (Hess)</b> <u>KEYNOTE</u> : Exploration in Fold and Thrust Belt: a Losing Battle?
14:40	<b>Letouzey J (IFP), Jahani S, Callot JP, de Lamotte DF</b> The Hormuz Salt and the structures of the South-Eastern Zagros Fold and Thrust Belt and offshore area
15:05	<b>Blanc E (StatoilHydro), Verges J, Gillespie P, Casciello E, Emami H, Homke S, Ghoodarzi MHG, Egebjerg T, Valinejad M, Hunt D, Sharp I, Livbjerg, Efstathion J, Skott P, Taati F, Rasmussen E</b> Field evidence for a major Early Paleogene folding phase in the Zagros Simple Folded Zone
15:30	<b>Gibbs A (Midland Valley), Seed GGG, Shackleton R</b> Taking Geometry to the Limits and Beyond in Thrust Belt Analysis
15:55	Tea / Coffee
16:25	<b>Turner SA (Imperial College), Weeks DH, Cosgrove JW, Liu JG</b> Fundamentals controls on the structural variability of Fold-Thrust Belts in the NW Tarim Basin, China
16:50	<b>Heidon R (Oil Search Ltd), Bradey K, Mansfield G, Ivanec J</b> Integrated hydrocarbon exploration techniques in the Papua New Guinea Fold Belt
17:15	<b>Taborda, Adriana (Husky Energy) &amp; Spratt, Deborah</b> Tectonic wedging in the Northern Mackenzie Mountains and Southern Richardson Mountains, NW Territories and Yukon, Canada
17:40	Wine Reception



## Thursday 15 May

09:00	<b>Registration + coffee</b>
<b>Session 1: Overview (Enzo Zappaterra)</b>	
09:30	<b>Roeder, Dietrich (Murnau Geodynamics)</b> <u>KEYNOTE</u> : Fold-Thrust Belts at Peak Oil
10:10	<b>de Vera, Jose (RHUL) &amp; McClay, Ken</b> Structure of the Western Brooks Range Fold and Thrust Belt, Arctic Alaska
10:35	<b>Krzywiec P (Polish Geol. Inst.), Aleksandrowski P, Oszczypko N, Sieniawska I, Oszczypko-Clowes M, Kijewska S, Wrobel G, Bukowski K, Siupik J, Florek L</b> Structure, Miocene evolution and hydrocarbon potential of the frontal Polish Carpathians (Pilzno-Andrychow): New model based on integrated analysis of geological and geophysical data
11:00	<b>Tea / Coffee</b>
11:30	<b>Scrocca D (CNR Rome), Doglioni C, Arecco P, Nikolla L, Cannata D, Petracchini L, Recanati R</b> The Outer Albanides: Geodynamic setting, structural architecture, and petroleum potential
11:55	<b>Cook, B.S (Kentucky Univ.), &amp; Thomas, W.A.</b> Potential natural gas plays in ductile duplexes: an example from a Recess in the Appalachian Thrust Belt in Georgia, USA
12:20	<b>Lunch</b>



Session 2: Exploration in Thrust Belts: Case Studies (chair Rob Butler)	
14:00	<b>Newsom, Andrew C. (Moose Oil Calgary, Keynote)</b> <u>KEYNOTE</u> : Adding reserves in Fold-Thrust Belts
14:40	<b>Hill KC (Oil Search Ltd.), Iwanec J, Bradey K, Wilson N, Heidorn R</b> Crustal architecture, fold belt development and oilfield compartments in Papua New Guinea
15:05	<b>Bradey K (Oil Search Ltd.), Wilson N, Iwanec J, Kivior T, Kendrick D, Hill K</b> Exploration in the Kutubu oil field, Papua New Guinea
15:30	<b>Charlton, Tim (Manson-Demon)</b> The petroleum potential of the Banda Fold and Thrust belt
15:55	Tea / Coffee
16 :20	<b>Bello D (Geomodels Barcelona), Munoz JA, Roca E, Lopez-Blanco M, Navarro J, Malagon J</b> Stratigraphic control on the Vallfogona thrust geometry: Eastern Pyrenees, Spain
16 :55	<b>Becker, Stephan (RWTH Aachen Univ.)</b> The Aachen fold and thrust belt: an integration of surface geology, reflection seismic and new subsurface data from the deep geothermal well RWTH-1
17 :25	<b>Funedda, Antonio (Cagliari Univ.)</b> Complicated thrust triangle zone in the Variscan foreland of Sardinia
17:50	Wine Reception
19 :00	Conference Dinner



## Friday 16 May

09:00	Registration + coffee
<b>Session 3: Structural Models and Modelling (chair Nigel Duxbury)</b>	
09:30	<b>Duque Carlos (BP), Checa J, Pastore D, Matthews S</b> Seismic Processing in overthrust areas
09:55	<b>Roseway, Jon (C&amp;C Reservoirs)</b> Typical play types and prominent exceptions in Foreland Fold and Thrust Belts
10:20	<b>Wiltchko David V (Texas A&amp;M) &amp; Rodriguez-Roa Fernando</b> Multi-modal approach to balance cross-section drawing: example from the Southern Taiwan Orogen
10:45	Tea / Coffee
11:15	<b>Sulzer C (IFP), Thibaut M, Jardin A, Beche M</b> Applied methodology on a 3D compressive case study: the Gaspé Belt
11:40	<b>Bump A (BP America), Martinez J, Hossack J</b> A pseudo-3D model of the Llanos foothills, Eastern Cordillera, Colombia
<b>Session 4: Thermal Regimes (chair Graham Goffey)</b>	
12:05	<b>Roure F (IFP), Andriessen P, Callot JP, Gonzales E, Guilhaumou N, Handebol N, Lacombe o, Malamdain J, Mougín P, Ortuno S, Sassi W, Swennen R, Vilasi N</b> The use of paleo-thermo-barometers and coupled thermal, fluid flow and pore fluid pressure modeling for hydrocarbon and reservoir prediction in Fold and Thrust Belts
12:30	<b>Picotti Vincenzo (Bologna Univ.) &amp; Capozzi Rossella</b> The Northern Apennines Petroleum system: an integrated structural-geochemical approach
12:55	Lunch



Session 5: New Models (chair Enzo Zappaterra)	
14:10	<b>Scalera, Giancarlo (INGV Rome)</b> Fold belts built from below
14:35	<b>Sassi W (IFP), Schledert Z, Saeed AM</b> Transpressive force folding and basin inversion: structural evolution of faulting studied by numerical digitization of a sandbox experiment
15:00	<b>Waller TD (Hess), Spang JH, Kilsdonk B</b> New geometric model for detachment folds with applications to deepwater, Western Gulf of Mexico, USA
15:25	<b>Paton, Douglas (Leeds Univ.)</b> Application of tri-shear to syn-compressional growth strata geometry
15 :50	<b>End of Conference</b>



## Poster Sessions

### Wednesday 14 May

11:00 – 16:20	Do thrust faults limit trap potential in the Niger Delta deep water Thrustbelt play?	Kostenko O (Shell Intl'), Naruk S, Hack W, Poupon M, Meyer HJ, Nourse R
	Coupling kinematic evolution of Fold-Thrust structures and basin modeling: Implications for hydrocarbon migration and accumulation in deep-water Niger Delta	Rivero C (Chevron), Muscio G, Muhuri S, Eisenberg R
	Contractional domains of the Niger Delta: Structural styles, influence of mobile shale, and structural-stratigraphic evolution	Wiener RW (ExxonMobil), Mann MG, Cotton WB, Boorman SL, Lopez CJ, Angelich MT, Molyneux J, Barboza SA
	The deepwater Fold-Thrust belt offshore NW Borneo: gravity-driven versus crustal shortening	Hesse S (RWTH Aachen Univ.), Back S, Franke D
	The Barbados accretionary prism-Orinoco delta connection: deformation processes at the south-eastern boundary of the Caribbean Plate	Deville E (IFP), Padron de Carillo C, Huyghe P, Callec Y, lallemant S, Lebrun JF, Mascle A, Mascle G, Noble M

### Thursday 15 May

11:00 – 16:20	Regional geological cross-sections and tectonic style in the Eastern Zagros fold-thrust belt and offshore area, Iran	Jahani Salman (NIOC Iran), Letouzey J, de Lamotte DF, Callot JP
	Upper Pennsylvanian (Kasimovian) potential source rocks and shallow-water carbonates with oil and bitumen inclusions in late Variscan wedge-top basin successions: Picos de Europa imbricate system, Cantabrian Zone, NW Spain	Merino-Tome' OA (Geol. Inst. Spain), Bahamonde JR, Fernandez LP, Colmenero JR, Villa E, Heredia N
	Modeling bed dips in horizontal wells in Fold-Thrust Belts	Newson, AC (Moose Oil Ltd) & Berg, CR
	Advanced remote imaging techniques to map the Zagros Fold-Thrust Belt of Northern Iraq	Banks GJ (FugroRobertson) & Watkins CA
	3D progressive migration of a turbidite-filled syncline in the alpine foreland basin: the Annot Syncline (SE France)	Salles, L (CRPG-CNRS), Ford, M, Joseph, P, Titeux, M-O, Durand-Riard, P, Caumon, G