

01 June, 2005

## RDRG 2005 - Calgary, Alberta Canada

AAPG Annual Meeting  
Rock Deformation Research Group Committee Meeting  
Calgary, Alberta, Canada

June 20, 2005 • 7:00 – 10:00 PM

Current Chair Bob Krantz (ConocoPhillips) opened the meeting, along with vice-chair Deb Sprat (University of Calgary) and about 60 attendees present. Bob introduced the main topic for the evening, Modeling Intra-Reservoir Deformation, and the panel group. The panel included Dave Pollard (Stanford University), Brett Freeman (Badley Geoscience), Tim Buddin (Midland Valley), and Rolf Ackermann (BEICIP). Each panel member provided a short presentation. Following are their powerpoint files as PDFs:

- Bob Krantz and Deb Sprat: [Agenda](#) (183 Kb)
- Dave Pollard: [Critical Issues in Modeling Distributed Deformation on the Intra-reservoir Scale: Using a Compete Mechanics](#) (10.29 Mb)
- Brett Freeman: [Elastic dislocation modelling for prediction of small-scale fault and fracture network characteristics](#) (1.00 Mb)
- Tim Buddin: [The role of geometric structural modelling in understanding sub-seismic strain...](#) (1.94 Mb)
- Rolf Ackermann: [Modeling IntraModeling Intra--reservoir deformation: reservoir deformation: Why and What and How BetterWhy and What and How Better](#) (4.64 Mb)

The meeting then moved into open discussion. Among the major topics and issues raised:

- the need to communicate better with reservoir engineers, to cultivate cooperative integration, to provide structural output suitable for reservoir modeling, and to capture feedback from modeling for structural refinement
- to avoid the tendency for single solutions, whether in structural approaches, models, or outcomes
- complexities in fracture genesis, modes, relaxation models, etc. with much uncertainty expressed about specific model validity or applicability
- the need to integrate geology on all scales, to include the critical observations, and to recognize the hierarchy and timing of structural elements

- how best to approach structural responses to dynamic reservoir changes
- applying data from induced fracs as controlled experiments and inverting data from microseismicity
- a potential paradigm shift for reservoir scale structural analysis, from geometry to deformation metrics suitable for modeling permeability and other flow performance parameters

Bob then solicited nominations for vice-chair in 2006. Steve Naruk (Shell) had been previously nominated, and with no further nominations from the floor, Steve was overwhelmingly elected. Deb Spratt will serve as Chair.