Modeling Structural Evolution to Improve 3D Models for Exploration and Mine Development

October 25–26, 2012
SEG Headquarters Course Center, Littleton, Colorado, USA

This 2-day course is designed for Geologists in Mineral Exploration and Resource Development and their Managers who want to minimize geological risk and optimize the use of regional and mine-scale geological models. The course is particularly useful for people working with structurally controlled deposits and/or deposits that have been deformed.

Topics covered during the two days:

- Philosophy of modeling structural evolution: 3D plus time.
- Risk from prior knowledge, the use of uncertainty concepts.
- Overview of structural styles illustrated using selected mineralization systems and the role of mechanical stratigraphy, in extensional, contractional and strike-slip settings.
- Principles of structural modeling and validation: key tests.
- The big picture: constraints from geological context and regional structural history.
- Validating the fault framework, fault shapes and crosscutting relationships and identifying connected pathways.
- Linking igneous emplacement to fault-assisted space making mechanisms.
- Sequential restoration of folds, fault offsets and igneous intrusions in section.
- Constructing fault shape from surface data.
- Quantifying strain through time for geological fracture modeling, modeling block-size distribution.
- Case studies include the Bingham Canyon Mine Cu-Mo-Au porphyry and skarn deposit.

REGISTER on the SEG website at www.segweb.org/events

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<th>Early Registration deadline September 25, 2012</th>
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**Please note that this course is limited to 50 participants (no more than 10% students). SEG reserves the right to cancel this event should minimum attendance numbers not be met by September 25, 2012.