

Guy Flanagan

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Professional Summary

Geophysical consultant with 40 years experience in worldwide non-seismic methods interpretation, processing, acquisition, research and management. Main interest is in high end technical interpretation and modeling of non-seismic data incorporating new concepts and software and close integration with structural geologists, basin modelers and exploration teams. Focus on interaction with project teams to address key technical issues in lieu of producing standard set of interpretation products.

Key Technical Skills

- Expert user of Geosoft Oasis Montaj, LCT's Magprobe, 2D and 3D modeling, BainGeo's MagDepth and LTG (Lithospheric Thermal Gravity Correction)
- Familiarity with Scripps MARE2DEM, YAM2, Decision Space, ArcGIS, LBNL's EMGeo

Experience

Independent Consultant (2015-present) (Albuquerque, NM)

Consulting on all facets of gravity, magnetics for oil exploration companies, independent consulting companies and software contractors. Research focused on improved magnetic depth to basement techniques.

ConocoPhillips/Phillips Petroleum Company (1997-2015) Geoscience Fellow Gravity, Magnetics and Electrical Methods (Bartlesville, OK; Houston, TX)

Responsibilities include overseeing all aspects of gravity, magnetics and electrical methods acquisition, processing, interpretation, training and research including maintenance of company wide software capabilities, technology transfer, QC of service companies and evaluation of outside proposals. Remote QC of multiple surveys including airborne G/M survey in Iquitos Basin of Peru.

MBL Inc. (1994-1997) Vice-President, Geophysicist (Denver, CO)

Gravity and magnetic consulting and interpretation including QC of acquisition, processing and interpretation for a variety of corporations including: BP, Phillips, Chevron, Exxon, UPRC, MIM, Coastal, Oil Search, Lexam, Japex, JNOC, Pennzoil, Triton and Santos. In field QC of various gravity and aeromagnetic surveys in U.S., Papua New Guinea, and Venezuela.

BP/Sohio (1981-1994) Manager Gravity, Magnetics and Electrical Methods; Staff Geophysicist (San Francisco, CA; Dallas, TX; Houston, TX; London, UK)

Managed group of 15 geophysicists and support personnel and associated multi-million dollar budget. Responsibilities included overseeing all aspects of gravity, magnetics and electrical methods acquisition, processing, interpretation, training and research. In field QC of multiple land and marine gravity, and aeromagnetic surveys.

Unocal (1979-1981) Gravity and Magnetics Geophysicist (Los Angeles, CA)

Geophysicist working on gravity and magnetic interpretations in the US lower 48.

USGS (1977-1979) Gravity and Magnetics Geophysicist (Denver, CO)

Geophysicist working on aeromagnetic interpretation in support of geothermal evaluations in the Cascade Range of the western US.

Education

MS Geophysics, Colorado School of Mines 1979
BS Geophysical Engineering, Colorado School of Mines 1977

Professional Affiliations /Service

Member SEG (1977 -), EAGE (1979 -)
Technical Committee 2015 SEG GEM-Chengdu Meeting
Technical Committee, Session Chair, 2011 SEG GEM-Beijing Meeting
Organizer and Co-Chair 2006 SEG Workshop “The Bishop Model”
Technical Committee, Session Chair: SEG 2006 Jakarta International Geosciences Conference
Co-Chair: 2003 SEG Workshop “Enhanced Seismic Imaging and Interpretation of Gravity and Magnetism”
Chairman: Formats Sub-Committee for the North American Database Compilation 2002-2004
SEG G/M committee Chairman 2002-2004, Vice Chairman 2000-2002
Organizer and Chairman 2000 SEG Workshop “The Crust and its Structure”

Selected Publications/Presentations

2013 Krahenbuhl, R., Li, Y., Martinez, C. and Flanagan, G., Monitoring CO2 sequestration with joint surface and borehole gravity data: Feasibility Study, SEG Technical Program Expanded Abstracts.

2012 Flanagan, G. and Bain, J.E., “Depth Extent: An overlooked parameter in magnetic depth estimation” presented at the 2012 EAGE conference in Copenhagen, Denmark.

2006, Hoversten, G.M., Newman, G.A., Geier, N and Flanagan, G., 3D numerical simulation of a deepwater EM exploration survey, *Geophysics*, v.71, no. 5, pp.239-248.

2005, Hinze, W.J., et.al. New standards for reducing gravity data: The North American gravity database, *Geophysics*, v.70, no. 4, pp 25-32.

2005, Williams, S., Fairhead, J.D. and Flanagan, G., Comparison of grid Euler deconvolution with and without 2D constraints using realistic magnetic basement models. *Geophysics*, v.70, no. 3, pp 13-21.

2001, Flanagan, G., Campbell, C.L., Kilsdonk, B., Maler, M., Bird, D. and Kirkham, K., Integrated gravity, magnetic, and seismic study offshore Brazil. 7th International Congress of the Brazilian Geophysical Society Expanded Abstracts.

1988, Flanagan, G., Davis, S.G., Campbell, C. L., and Doughtie, J. K., Integration of high sensitivity aeromagnetism and seismic to define salt and sediment structures in the Gulf of Mexico. SEG Technical Program Expanded Abstracts.

1982, Flanagan, G and Williams, D.L., A magnetic investigation of Mount Hood, Oregon. *JGR B*, vol 87, no. 4, pages 2804-2814.