

# October 2014 Activities Update



Our mission is to provide the highest quality engineering and geoscience consulting services to the petroleum industry in a creative, technologically rigorous, ethical, and cost effective fashion.

2014 has been a very busy year here at IRT. Our staff have been working around the world and here in Denver on projects ranging from teaching courses and one on one mentoring/training, to imbedding into client project teams, to fully integrated field studies.

IRT continue to be very active in the Middle East where we've been conducting integrated studies for over a decade now. Two studies are currently underway and next year looks to be equally promising. These projects include a mix of technically challenging carbonate and clastic reservoirs.

IRT currently support a number of domestic US clients ranging from the Paleogene trend in the deep water Gulf of Mexico to multiple fields in the onshore lower 48 and Alaska. Williston basin projects include EOR miscible injection reservoir studies utilizing CO<sub>2</sub> and hydrocarbon gas. The studies incorporate EOR screening analysis as well as compositional reservoir modeling. IRT's Bakken expertise dates back to a 1998 horizontal well study performed for a consortium of operators.

IRT are working numerous issues on the North Slope of Alaska including design and development of an Alaska LNG project – work highlighted in a recent article in the Alaska Dispatch News

<http://www.adn.com/article/20140908/alaska-lng-project-participants-take-step-forward>.

In the Permian Basin of West Texas, IRT assisted in a history match of a large, mature oil field with over 1700 wells to assist in late-life field development planning, and have history matched and integrated a full surface pipeline network for a large CO<sub>2</sub> field to evaluate infill drilling candidates and surface debottlenecking options.

In 2014 we were fortunate to hire five new staff which expand the following skill sets:

- EOR Design and Implementation
- General Reservoir Simulation
- Petrel Geocellular Modeling and Seismic Integration
- Petrophysical Analysis
- 2D and 3D Seismic Survey Design, Implementation, and Quality Control for the Mining, Coal, Geothermal, and Oil and Gas Industries

We will offer our Dynamic and Static Modeling Courses mid April in Denver. We would like to offer these courses in Houston in the fall. Let us know if this interests you.

Please don't hesitate to call if you need any help. We take pride in our work and rely on repeat business from satisfied clients.

*Michael May*

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# International Reservoir Technologies Inc.

[www.irt-inc.com](http://www.irt-inc.com)

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Staff

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IRT are pleased to announce the addition of five senior consultants. Click on our web site above for a direct link to their full resumes:

**Mr. Dan Simpson** is a petroleum engineer with 20 years' experience in the oil and gas industry. He excels in reservoir simulation of black oil, gas, condensate, compositional, CBM, shale, and gas storage. He has extensive experience working with fields around the world. His US experience includes simulation of fields in WY, CO, CA, AK, IL, TX, ND and SD. Internationally, Mr. Simpson has worked with fields in West Africa (Gabon and Nigeria), Europe (North Sea and Germany), Australia, Mexico, Argentina, Chile and the Middle East. His background includes simulations for a variety of applications including field development and facilities planning, reservoir management, brown field expansion, reserves assignment, investment strategic planning, and equity determination.

**Mr. Patrick McGuire** is a Reservoir Engineer with 39 years of energy industry experience. He is a world-class expert in Enhanced Oil Recovery (EOR) and has worked on gas injection and low salinity EOR opportunities across the world. He worked for many years designing and implementing advanced oil recovery processes for the North Slope of Alaska, which is home to North America's largest oil fields and some of the world's

largest EOR projects. He has served as an SPE Distinguished Lecturer and has addressed over 30 SPE sections.

**Mr. Dave Smith** is a development geologist and petrophysicist with over 36 years of experience in formation evaluation, field studies, petrophysical integration of subsurface data, acquisition and integration of routine and special core analysis, production log interpretation, and thin bed pay analysis. USA experience includes Gulf of Mexico, California onshore, Wyoming, Louisiana, and North Dakota. International experience acquired while working overseas in Egypt, Sharjah, Kuwait, Indonesia, and Trinidad and Tobago, West Indies. His responsibilities have included project management of reservoir modelling projects, core analysis projects, petrophysical assurance and guidance in well location and long term field development planning, and the coaching and mentoring of petrophysicists, geologists, and reservoir engineers in multi-cultural teams.

**Dr. John Arestad** has over 35 years' experience in the energy and minerals industries, possessing a strong background in overall exploration and development strategies with an emphasis on geophysics and geology. He has expertise with many geophysical methods and geologic analytical techniques. He is solidly familiar with applications of these to many project areas



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including North and South America, the Middle East and the North Sea. He has also designed, managed, and conducted numerous conventional and shallow seismic reflection projects for oil and gas/mineral / environmental / land use projects in United States and internationally.

**Dr. Tad Gladczenko** is a sub-surface multi-disciplinary integrator. He has a proven track record of translating geological, geophysical, and production knowledge and data into reservoir models that consistently predict reservoir behavior. Dr. Gladczenko has 15 years' industry experience in construction of static reservoir models. He has built predictive earth models for fields in the Gulf Coast, California, Alaska, Rocky Mountains, Iraq, Kuwait, Venezuela, West Africa, North Sea, and Black Sea areas. He is a subject matter expert in reservoir modeling (Petrel/SKUA) with an advanced geophysics background. He has chaired multiple AAPG and EAGE special sessions and workshops and taught courses focused on subsurface modeling. Dr. Gladczenko has published nine research articles in peer-reviewed scientific journals and presented 22 scientific papers at various international meetings.

## 2015 Training

IRT is pleased to continue offering our static and dynamic modeling courses. IRT will have a public offering of these classes in April in our offices in Denver. We will be offering the courses to the public for the first time in Houston in 3Q/4Q, pending sufficient enrollment. IRT can also teach these courses in your office if so desired. In house training provides an opportunity for one on one mentoring. Please contact [deirdregc@irt-inc.com](mailto:deirdregc@irt-inc.com) for more information on private courses or to express interest in the public offering. These courses are designed to provide petroleum geologists and engineers with a solid background in theory, data preparation, modeling fundamentals, and quality control. Exercises are provided throughout the week to reinforce the lectures.

Watch this space as we intend to add more classes throughout the year.

## STATIC MODELING SCHOOL

April 13-17, Denver CO

TBD, Houston TX

[Click here for more details](#)

## DYNAMIC MODELING SCHOOL

April 20-24, Denver CO

TBD, Houston TX

[Click here for more details](#)