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## **DSP Geosciences and Associates, LLC**

***Leaders in E&P Project Acceleration and Coaching***

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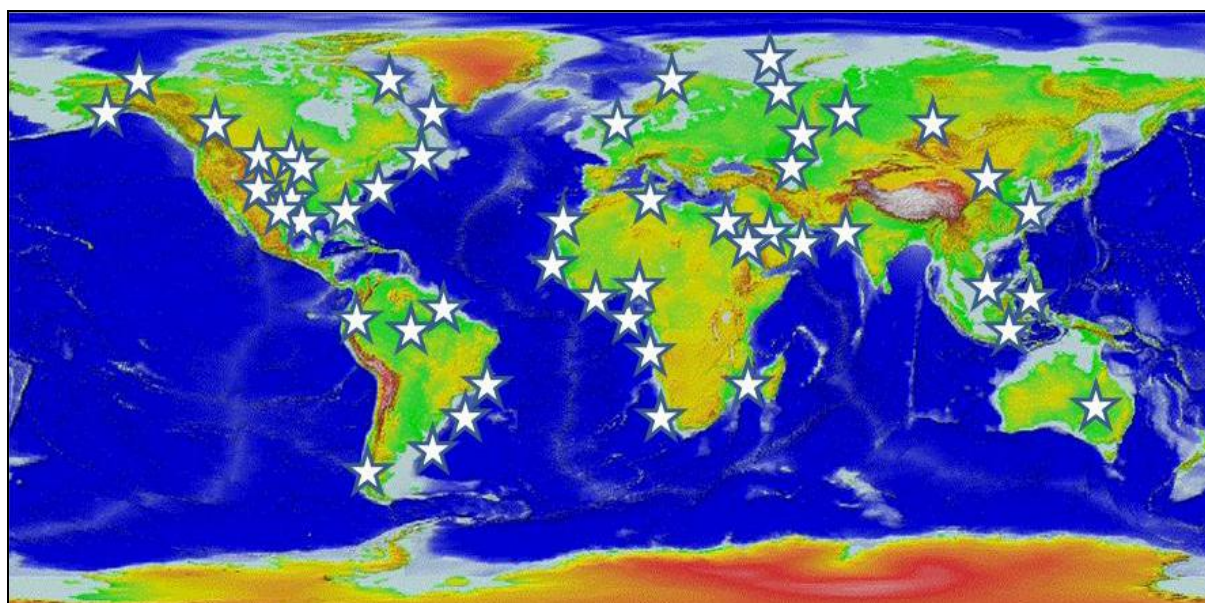
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**Global experience you can draw from.**



**DSP Geosciences and Associates** serves the greater E&P global community in its efforts to help reduce risk in petroleum exploration and train and coach the next generation of explorers. Our directors and associates bring hundreds of years of experience in oil and gas exploration in virtually every tectonic and stratigraphic setting. They are active learners staying on the cutting edge of their disciplines.

**We offer two business models:**

**1. Traditional consulting**

- Integrated basin analysis, play fairway and resource assessment
- Seismic and sequence stratigraphy
- Core and ichnology based reservoir modeling and flow units
- Unconventional oil and gas shale plays
- Tight gas sands
- Quantitative show and seal analysis to predict migration and entrapment
- Technical organizational capability assessment
- Peer assists

**2. Project Acceleration Through Workshops and Coaching**

**A project model involving coaching:**



What differentiates us is developing an on-going partnership in your projects and people. We help you generate leads and prospects, de-risk trends and empower your people with new skills. Our integrated core, seismic and log workshops drive critical discussions across your teams and lead to new opportunities. We have a proven track record of oil finding, teaching and mentoring and will make a commitment to your company and people.

**We succeed when you succeed.**



**John Dolson**



**John Dolson** has 29 years of oil and gas exploration experience in both domestic U.S. and international settings. He has lived overseas for 14 years in Egypt, London and Moscow. He is a recognized expert in regional basin analysis, high resolution sequence stratigraphy and applied petrophysics. He has worked as a technical leader and coach and managed projects from New Ventures to 3D reservoir modeling. He speaks basic Russian and enjoys multi-cultural settings, teaching, working with Universities and coaching young geoscientists.

- John's career with Amoco + BP culminated as Senior Exploration Advisor for both BP and TNK-BP (Russia). John pioneered development of BP's standard ARGIS digital play fairway risk assessment process while working global New Ventures. He recently finished 4 years of project acceleration and coaching of over 100 Russian staff in TNK-BP which identified over 4 Billion barrels of risked potential in large stratigraphic traps. He led teams which discovered giant gas fields in Egypt's Nile Delta, and received a BP Helios Award citation for GIS based information management systems in Egypt. His technical leadership in the Gulf of Suez resulted in multiple company awards, including Amoco's 1998 Worldwide Award for Exploration Excellence. He led a multi-discipline Asset Management team which reversed a 20% decline in the giant October Field and completed extensive facilities re-engineering. He also has mid-continent, Rocky Mountain and southern Alaska basin experience. He specializes in risk reduction through quantitative show, seal and migration analysis.
- Professional societies, publications and awards:
  - ✓ 2006/2007 Vice President, American Association of Petroleum Geologists
  - ✓ 7 Best paper awards + 2 Distinguished Public Service Awards (RMAG, AAPG)
  - ✓ Major publications: AAPG Treatise, Chapter 28: Exploration for Stratigraphic Traps; AAPG Pratt memorial volume: Petroleum Potential of Egypt. Editor, 1994 RMAG book: Unconformity-related Hydrocarbons in Sedimentary Sequences. Authored over 60 presentations and papers and one additional book.
  - ✓ Member, RMAG, HGS, SPE and SEG
  - ✓ 1978 National Environmental Conservation Teacher of the Year 2<sup>nd</sup> place and 1<sup>st</sup> place, Colorado and Southwest Region. Research Associate, Denver Museum of Nature and Science
  - ✓ Research Associate, Denver Museum of Nature and Science
- Education:
  - ✓ B.A. Natural Sciences, Colorado College, Teaching certificate, Univ. of Colorado
  - ✓ M.Sc in Earth Science, Colorado State University
  - ✓ Adjunct professor
    - Colorado State University, Royal Holloway University, UK .
    - Advisory council: Moscow State University, Tyumen State Oil and Gas Univ (Russia)



**Keith Shanley**

**Keith Shanley** has 28 years of oil and gas experience in exploration, production, and research in both domestic U.S. and international settings as both an advisor and project leader. He has worked for Tenneco, Shell, and BP-Amoco before becoming an independent consultant 4 years ago. He is an internationally recognized expert in applied sequence stratigraphy and sedimentology, unconventional resources, petrophysics and subsurface risk analysis. He has pioneered new concepts in non-marine sequence stratigraphy, unconventional resources, and petrophysics, and is recognized

International expert on tight gas sandstones. He speaks Dutch, is comfortable in diverse cultural settings and enjoys teaching and advising. Keith has extensive experience throughout North America including Alaska, portions of South America, Europe, Russia and Southeast Asia. Some highlights of his career include:

- At Amoco, Keith was part of a team that implemented a new risk assessment process across multiple North American basins, causing new focus and acreage acquisition. As the subsurface team leader for a major North American gas field, his integration efforts generated \$250 MM in 6 months. Keith's key role in another integrated team resulted in acquisition of a major position in the giant Johan field, one of the largest discoveries in North America in the last 15 years.
- At Shell, Keith was part of a team which used DSP type integrated studies to significantly improve understanding of non-marine and paralic reservoirs.
- **Professional societies, publications and awards:**
  - ✓ AAPG 2006 Pratt Award for Best Paper in the AAPG Bulletin
  - ✓ 2005 CSPG Medal of Merit for most influential paper on Canadian geology
  - ✓ Member of SPE, AAPG, SPWLA, RMAG, SEPM
  - ✓ 73 overall publications: (12 papers, editor of 12 volumes, 50 abstracts, 3 guidebooks)
  - ✓ Instructor, BP's Level 3 Advanced training in Reservoir Architecture and Sequence Stratigraphy as Applied to Paralic Reservoirs.
  - ✓ Lead instructor for AAPG Continuing Education Course – Book Cliffs Field Seminar – Sequence Stratigraphy and Reservoir Architecture – an applied field-based workshop
  - ✓ Provide training in sequence stratigraphy for Nautilus and individual companies.
- Education:
  - ✓ B.A. Geology, Rice University , Houston, Texas
  - ✓ M.Sc. Geology, Colorado School of Mines, Golden, Colorado.
  - ✓ Ph.d. Geology, minor Geophysics, Colorado School of Mines, Golden, Colorado
  - ✓ Adjunct Professor at Colorado State University, Department of Earth Sciences, Fort Collins, Colorado.





**S. George Pemberton F.R.S.C**

George Pemberton has over 35 years of teaching experience in the areas of oil and gas exploration, exploitation and research. He is currently a Canada Research Chair in Petroleum Geology in the Department of Earth and Atmospheric Sciences at the University of Alberta. He is a recognized expert in sedimentology, sequence stratigraphy, and ichnology (animal-sediment interactions). He has pioneered the use of integrated sedimentological-ichnological models to recognize paralic environments in both clastic and carbonate systems. Recent work has been done on the application of ichnology to the flow of fluids through the reservoir in both clastic and carbonate settings. He has actively worked on major hydrocarbon bearing units in Australia, Taiwan, China, Brunei, Indonesia, Malaysia, Gulf of Mexico, Japan, Argentina, Brazil, Peru, Venezuela, Columbia, Trinidad, New Zealand, Papua New Guinea, the United States and Alaska, the North Sea, Algeria, Qatar, Egypt, Saudi Arabia, Russia, Angola, India and Nigeria. This work has been done in conjunction with most of the largest multi-national and national oil companies in the world.

George's work in ichnofacies controls in production has resulted in multiple trillions of cubic feet new booked reserves in a variety of projects in both carbonates and clastics. In addition, he is actively involved in researching gas shale productivity as it relates to subtle ichnological controls on primary permeability and fracture propagation in unconventional plays.

- Professional societies, publications and awards

- ✓ Canada Research Chair in Petroleum Geology
- ✓ Fellow of the Academy of Science, Royal Society of Canada
- ✓ R. C. Moore Medal for Excellence in Paleontology, presented by the Society for Sedimentary Research
- ✓ Grover Murray Distinguished Educator Award presented by the American Association of Petroleum Geologists.
- ✓ AAPG Distinguished Lecturer
- ✓ Medal of Merit, Best Paper in Canadian Petroleum Geology, Canadian Society of Petroleum Geologists
- ✓ Past President's Medal, Geological Association of Canada
- ✓ 2008 Ziad Beydoun Memorial Award for Best International Poster at the American Association of Petroleum Geologists International Conference
- ✓ 15 Best Paper or Best Presentation Awards
- ✓ 218 published articles, 9 Field Guides, 7 Books edited or co-edited and 300 presentations at National and International Meetings
- ✓ While at the University of Alberta George has graduated 42 M.Sc. students and 7 PhD students.
- ✓ Conducted 97 industry oriented short courses in ichnology, sedimentology, and sequence stratigraphy for private companies and Societies.

- Education:

- ✓ Hons. BSc. Geological Sciences Queen's University
- ✓ MSc. Geology McMaster University
- ✓ PhD McMaster University



## **Our Associates:**

DSP Associates are people or companies we have worked with in the past and can recommend as needed for your projects. They help drive the quality and breadth of our integration services.

### **Petroleum Systems**

Zhiyong He: Trinity, genesis and kinex petroleum system modeling software and interpretation <http://zetaware.com/>

Chris Cornford: Geochemical database construction, interpretation, analysis  
<http://www.igilt.com>

Dr. Mohammed Said, Stratochem geoservices; geochemical sampling and interpretation <http://www.stratochemservices.com/>

### **Fluid Inclusion Stratigraphy and Mud isotope sampling**

Dr. Don Hall: direct detection of migration pathways and show quantification.  
[http://www.fittulsa.com/fit\\_fit/ovofit.html](http://www.fittulsa.com/fit_fit/ovofit.html)

Dr. Mohammed Said: Stratochem geoservices; geochemical sampling and interpretation <http://www.stratochemservices.com/>

### **Geophysics (Seismic)**

Scott Haberman: Lago Petroleum Consulting, Denver, Colorado; seismic mapping and integration

Paul Harrison, Consultant, Perth Australia (seismic mapping)

### **Gravity and Magnetics**

Dr. Tom Loutit: Frogtech Inc., Australia, regional basement reconstructions  
[http://www.frogtech.com.au/Frog\\_Index.html](http://www.frogtech.com.au/Frog_Index.html)

### **Risk Assessment**

Dr. Gary Citron: Rose and Associates, <http://www.roseassoc.com/>

### **Quantitative Geomorphology**

Dr. Lesli J. Wood: University of Texas, Austin, Texas. Core seismic and log based sequence stratigraphy and facies analysis.

<http://www.beg.utexas.edu/staffinfo/wood01.htm>

### **Affiliated University:**

Dr. Mikhail Ivanov, Head of Geochemistry Department and regional expert on Russian geology, mud volcanoes and applied geochemistry. Moscow State University, Moscow Russia



**Director/Administrator**

**Debbie Dolson**



Recently retired from a career in teaching, Debbie brings 30+ years of her organizational skills and school administrative experience to our company. In addition to her teaching background, she has founded and run her own business and has extensive experience proof-reading technical papers and manuals. As a DSP Geosciences administrator, she helps streamline our scheduling, assists with invoicing and helps with other tasks associated with running a small but global company.