



BARRIE JOSE, M.Sc., P.Geoph.

Manager, Geoscience

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Barrie Jose is an Associate of Sproule and is involved in the management of Sproule's Geoscience Division. Barrie has been a Sproule professional since 1999. He has conducted a wide variety of offshore and onshore projects worldwide since 1989, applying considerable technical expertise in 3D seismic interpretation to both field development and exploration in clastic and carbonate play types. Barrie has also been involved with oceanographic surveys, airborne geophysical surveys, teaching assistantships in structural geology, geophysics and physics, mineral exploration field work, and mining.

Barrie has experience in Algeria, Argentina, Australia, Benin, Brazil, Canada (Saskatchewan, Alberta and British Columbia including WCSB, Foothills; Northwest Territories, Ontario, East Coast), Brazil, China, Colombia, Cote d'Ivoire, Cuba, Czech Republic, Egypt, Equatorial Guinea, Hungary, India, Indonesia (West Java Sea), Iraq, Iran, Kazakhstan, Kingdom of Tonga, Libya (Onshore and Offshore Mediterranean), Madagascar, Mexico, New Zealand, Nicaragua, Nigeria (Offshore and Onshore), Norway (North Sea), Oman, Qatar, Russia, Sudan, Syria, Tanzania, Trinidad & Tobago, Tunisia, Ukraine, United Kingdom (Offshore North Sea and Onshore Weald and East Irish Sea Basins), United States (Alaska, California, Gulf of Mexico, Mississippi Salt Basin), Venezuela.

Diplomas and Degrees

- ❖ M.Sc. Geophysics (1979) University of British Columbia, Vancouver, British Columbia, Canada
- ❖ B.Sc. (Honours) Geological Science with Physics (1977) Queen's University, Kingston, Ontario, Canada

Memberships

- ❖ Association of Professional Engineers, Geologists and Geophysicists of Alberta (APEGGA)
- ❖ Canadian Society of Exploration Geophysicists (CSEG)
- ❖ Society of Exploration Geophysicists (SEG)
- ❖ Canadian Society of Petroleum Geologists (CSPG)
- ❖ American Association of Petroleum Geologists (AAPG)
- ❖ Petroleum Exploration Society of Great Britain (PESGB)
- ❖ European Association of Geoscientists and Engineers (EAGE)

Work Responsibilities

- ❖ Manage geoscience aspects of our international group.
- ❖ Provide reservoir geophysical expertise for integrated evaluation of oil and gas properties.
- ❖ Evaluate potential of unproven lands and exploration plays through integrated 2D / 3D / well interpretations and advanced 3D visualization techniques.
- ❖ Use seismic attribute analysis to provide improved understanding of reservoir characteristics and play fairways.
- ❖ Provide expertise for the interpretation of complexly structured plays.
- ❖ Conduct seismic stratigraphy and facies analysis to understand depositional history and infer reservoir distribution.

Previous Employers

- ❖ 1995-1999 **Paradigm Geophysical**, Calgary, Alberta — *Chief Geophysicist and Technology Director*

Interpretation Expertise:

- ❖ Hired for 3D expertise and broad industry experience domestically and internationally in both large-scale exploration and detailed development roles as their Chief Geoscientist & Technology Director.
- ❖ Premier expert globally with SeisX (2D/3D/Well) and VoxelGeo (3D visualization) interpretation systems.

Technology Leader/Manager:

- ❖ Managed all technical aspects and development staff for the SeisX interpretation system.
- ❖ Responsible for keeping on the forefront of emerging interpretation technologies and advising Photon/CogniSeis/Paradigm Geophysical through attendance and presentations at major international trade shows and conventions, membership in all major G&G societies, review of technical publications and journals, monitoring of industry and competitor trends.
- ❖ Designed most of the new interpretation functionality that has been implemented in SeisX during the past 4 years.

Marketing/Client Liaison:

- ❖ Travelled extensively globally as the principal Geoscientist marketing the integrated SeisX and VoxelGeo interpretation technologies.

- ❖ 1993-1995 **Sirte Oil Company Ltd.**, Woking, Surrey, United Kingdom — *Senior Staff Geophysicist, Exploration*

- ❖ Served as team leader and principal interpreter for the company's offshore North African interests. A detailed seismic stratigraphy framework was developed for basin re-assessment, and two new attractive offshore drill-ready prospects were generated.

❖ **1990-1993 Esso Exploration and Production UK, Woking, Surrey, United Kingdom**

*January 1991 to October 1993 — Senior Reservoir Geophysicist, Production Department
Integrated Reservoir Management Group*

- ❖ Managed all geophysical interpretation for the development of Shell/Esso's northern North Sea field interests including the Brent, Cormorant, Tern, Eider, Osprey, Brent South, Strathspey, Dunlin, Pelican, & Hudson fields. Utilized expertise in 3D seismic interpretation to produce high calibre re-interpretations and drilling decisions for these fields using Landmark software.
- ❖ Maintained close liaison with our partners in the planning of approximately 30+ offshore development wells and four exploration wildcat wells per year and provided timely business recommendations to management.
- ❖ Was recognized within Exxon as a leading expert and mentor in 3D interpretation techniques and was responsible for training many U.K. staff in advanced 3D interpretation techniques.

1990 to 1991 — Senior Exploration Geophysicist, Exploration Department, Technical Studies Group

- ❖ Served as geophysicist in a three-person team conducting a broad scale regional sequence stratigraphic study, basin analysis and re-evaluation of the Jurassic of the northern North Sea.
- ❖ Conducted evaluations of land sale blocks for the offshore license rounds.

❖ **1979-1990 Esso Resources Canada Ltd., Calgary, Alberta — Senior Project Geophysicist**

1987 to 1990 — Production Department, Reservoir/Development Geophysics

- ❖ Was part of an integrated geological-geophysical-engineering team as the 3D seismic interpretation specialist and team leader involved in the development/exploitation of the Rainbow/Zama basins in northwestern Alberta.
- ❖ Served as team Leader for the Peace River Arch area.

1982 to 1987 — Frontier Basin Analysis, East Coast Canada

- ❖ Conducted regional interpretations of the Flemish Pass, Avalon, and Scotian Shelf basins using the latest sequence stratigraphy concepts.
- ❖ Conducted modelling and lithology prediction studies.
- ❖ Obtained government and partner approvals and coordinated all G & G aspects of the drilling operations for two offshore wells.

1979 to 1982 — Processing Geophysicist and Project Geophysicist

- ❖ Involved in two years of seismic processing, both marine and land data, from the offshore and Western Canadian basins.
- ❖ Undertook geological and geophysical training assignments in northeastern British Columbia and central Alberta and with seismic acquisition.

Committee Work

- ❖ 2000 — Technical Session Chairman of the Visualization Session of the GeoCanada Convention
- ❖ 2000 — Session Chairman for the SEG 2000 Convention
- ❖ 2001 — Technical Session Chair (3D Visualization) for the CSEG 2001 Convention
- ❖ 2002 — Technical Session Chair (Case Studies) for the CSEG 2002 Convention
- ❖ 2008 — Chief Geophysicists Forum (Secretary)
- ❖ 2009 — Chief Geophysicists Forum (Chairman)

Special Expertise

- ❖ I have been involved in a wide variety of offshore and onshore projects worldwide since 1989, applying considerable technical expertise in 3D seismic interpretation to both field development and exploration in clastic and carbonate play types. Many of these involved complexly faulted plays, and I developed both software and techniques to handle these data sets with greater proficiency. Large 2D grids with multiple 3D surveys have been successfully integrated. I designed the seismic attribute analysis module of a common software product and make full use of it to enhance play and prospect potential.

Regional Specialities

- ❖ I have had the opportunity of working on several Foothills properties for various clients, which allows improved regional perspective on these plays. These plays require the ability to handle the complexly overthrust fault sheets typical of the area.
- ❖ For four years, I was responsible for geophysical evaluation of the northern half of the North Sea for Esso Exploration and Production U.K. This involved selecting up to 30 development well locations over 10 fields each year, utilizing 18 3D seismic surveys.
- ❖ For several years, while employed by Esso Resources, I was involved in numerous projects on the east coast of Canada, including the Flemish Pass, Avalon, and Scotian Shelf basins.

Special Skills

- ❖ As the former Chief Geoscientist and Technology Director for Paradigm Geophysical, I was the premier expert globally with the SeisX (2D/3D/Well) and VoxelGeo (3D Visualization) interpretation systems. I was instrumental in the direction of product development, and travelled extensively, showcasing the emerging interpretation technologies. I have taught and trained many oil companies on the advantages of 3D visualization for both exploration and field development.