

VITA **DR. JAMES D. LOWELL**

Dr. James D. Lowell offers 50 years of experience in the exploration for petroleum reserves. He has been involved in projects worldwide, covering a broad range of structural and stratigraphic regimes. His work has involved regional geologic evaluations as well as projects at the prospect level. Dr. Lowell has published widely in the field of structural geology, including a book on "Structural Styles in Petroleum Exploration" and has taught industry schools on the subject for 30 years. He was a distinguished lecturer for the AAPG and for Esso Australia.

PROFESSIONAL EXPERIENCE

THOMASSON PARTNER ASSOCIATES, INC., 2007- PRESENT

OIL AND GAS CONSULTANTS INTERNATIONAL (OGCI), 1976 -2007

Exploration, consulting geologist, and instructor

Training programs in structural geology. Exploration in Rocky Mountains, Consulting on exploration projects foreign and domestic, principally North Sea, Southeast Asia, South America (Brazil-Petrobras, Argentina-YPF, Bolivia-YP FB, and Colombia-ECOPETROL), Eastern Venezuela, Trinidad, Somalia, Middle East, Morocco, Tunisia, Ivory Coast, Spain, Romania, Italy, Western USA and Alaska. From 1978-2003, President of Colexcon, Inc., geological consulting and training services firm. In 1987, Dr. Lowell was a Schramm Professor of Economic Geology at University of Nebraska and a Crosby Visiting Professor at Massachusetts Institute of Technology and in 1989, he was Esso Australia Distinguished Lecturer in conjunction with University of Sydney Earth Resources Foundation.

Northwest Exploration Co., 1974 - 1976

Manager of Geology

Oil and gas exploration in the Rocky Mountains including prospect generation, evaluation of submittals, reserve calculations, decisions on well testing, and supervision of two geologists, one geophysicist and drafting department; seismic and geologic evaluation of Gulf of Guayaquil, Ecuador.

EXXON Co. USA, 1973 - 1974

Exploration Geologist

Regional tectonic study of Alaska onshore and offshore basins.

ESSO Production Research Company, 1966 - 1973

Senior research specialist

Research, teaching affiliate geologists, and service work in structural geology. Research: in Red Sea, Spitsbergen, Wyoming, West Texas, and other areas on the relationships between plate tectonics and their resultant structural styles and the occurrence of oil and gas. Teaching:

structural geology, seismic interpretation, and exploration schools. Service: Indonesia, Santa Barbara Channel, Panama, Arctic, and world acreage evaluation.

ESSO REP: Structural project in Swiss and Austrian Alps and French Pyrenees 1971,

Washington & Lee University, Assistant Professor of Geology, 1965 - 1966

American Overseas Petroleum, Limited, 1958 – 1965

Senior Geologist

Libya (4 yrs.), Spitsbergen (1 yr.), Netherlands and North Sea (2 yrs). Field: Geologic and structure mapping (plane table), stratigraphic studies, well-site geology. Office: Regional stratigraphic studies, regional tectonic studies, air photo interpretation, interpretation of reflection seismic records, drill recommendations, land evaluation. Subsurface geology including integration of geologic and geophysical information; isopach, lithofacies, subcrop, and local and regional structure maps; sedimentary petrology (carbonate rocks); and oil field studies.

EDUCATION

- Ph.D. Geology, Columbia University, 1958
- M.A. Geology, Columbia University, 1957
- B.Sc. University of Nebraska, 1955

PUBLICATIONS

- Lowell, J.D., 1960, Ordovician miogeosynclinal margin in central Nevada: XXI Internat. Geol. Cong., Proc. Sec. 7, p. 7-17.
- 1962, Tectonic framework of Yugoslavia: Petroleum Explor. Soc. of Libya, Guidebook for Excursion to Yugoslavia, p. 27-33.
- 1965, Lower and Middle Ordovician stratigraphy in the Hot Creek and Monitor ranges, central Nevada: Geol. Soc. American Bull., v. 76, p. 259-266.
- 1966, Stratigraphic relation of northwestern Europe to the European Arctic (abstract): Virginia Journal of Science, Proc., 1965-1966, p. 319-320.
- 1968, Upper Paleozoic and Lower Mesozoic stratigraphy of southwestern Nordaustlandet, Spitsbergen, Geol. Mag., v. 105, p. 348-355.
- 1969, on the origins of upthrusts (abstract): Geol. Soc. America Abs. With Programs for 1969, Part 7 (Annual Mtg.), p. 138.
- 1970, Antithetic faults in upthrusting: Am. Assoc. Petroleum Geologists Bull., v. 54, n. 10, p. 1946-1950.
- Genik, G.J., 1972, Sea-floor spreading and structural evolution of southern Red Sea: Am. Assoc. Petroleum Geologists Bull., v. 56, n. 2, p. 247-259.

- 1974, Plate tectonics and foreland basement deformation: *Geology*, v. 2, n. 6, p. 275-278.
- 1974, Plate tectonics and foreland basement deformation: Reply: *Geology*, v. 2, n. 12, p. 571.
- Genik, G.J., Nelson, T.H., and Tucker, P.M., 1975, Petroleum and plate tectonics of the southern Red Sea: in *Petroleum and Global Tectonics*, Princeton University Press.
- 1977, Underthrusting origin for thrust-fold belts with application to the Idaho- Wyoming belt: *Wyoming Geol. Assoc.*, 29th Annual Field Conf., p. 449-455.
- 1978, Petroleum potential of the footwall of the Emigrant Trail thrust southwest Wind River Basin Wyoming (abstract): *Wyoming Geol. Assoc.*, 30th Annual Field Conf., p. 75.
- Harding, T. P., and Lowell, J. D., 1979, Structural styles, their plate-tectonic habitats, and hydrocarbon traps in petroleum provinces: *Am. Assoc. Petroleum Geologists Bull.*, v. 63, p. 1016-1058.
- Lowell, J. D., 1980, Wrench vs. compressional structures with application to Southeast Asia: *Southeast Asia Petroleum Exploration Society*, vol. V, p. 63-70.
- 1983, Foreland detached deformation: *Am. Assoc. Petroleum Geologists Bull.* (abstract), v. 67, p. 1349.
- 1983, Foreland deformation in Lowell, J.D., ed., *Rocky Mountain Foreland Basins and Uplifts*: *Rocky Mtn. Assoc. Geologists Symposium*, p. 1-8.
- 1985, *Structural styles in petroleum exploration*: OGCI Publications, Tulsa, 460 p. (1987, Second printing, 477 p.; 1990, Third printing, 487 p.).
- Edman, J. D., Kirkpatrick, J. R., Lindsey, D.D., Lowell, J. D., Cirbian, M., and Lopez, M., 1989, Hydrocarbon potential of Altiplano and northern subandean, Bolivia (abstract): *Am. Assoc. Petroleum Geologists Bull.*, v. 73, p. 352.
- Harms & Brady (Harms, J.C., Lowell, J.D., MacKenzie, D.B.) and Earth Satellite Corporation (Everett, J.R., et al.), 1989, *Somali Democratic Republic Map* (2 sheets, 1:1,000,000).
- Bennett, R.L., Schuepbach, M.A., Hauptmann, M.K., and Lowell, J.D., 1992, The Moroccan High Atlas interpreted as a low angle thrust belt and its relation to structural traps (abstract): *First Conference on Petroleum Exploration, ONAREP, Rabat*, p. 37.
- Brady, M.J., Harms, J.C., Lowell, J.D., and MacKenzie, D.B., 1994, Somalia: A future exploration objective (abstract): *Am. Assoc. Petroleum Geologists Annual Convention*, v. 3, Denver, p. 109.
- Lowell, J.D., 1994, Structural inversion: occurrence, mechanics, and implications for petroleum exploration (abstract): *Am. Assoc. Petroleum Geologists Bull.*, v. 78, p. 1809.
- 1995, Mechanics of basin inversion from worldwide examples: in Buchanan, J.G. & Buchanan, P.G., eds., *Basin Inversion*, Geological Society Special Publication No. 88, p. 39-57.
- 2008, *Geology of Jackson Hole*: *Am. Assoc. Petroleum Geologists Trustee Associates Annual Field Trip*.

PROFESSIONAL REGISTRATION AND AFFILIATION

- American Association of Petroleum Geologists
- Geological Society of America
- Rocky Mountain Association of Geologists

PROFESSIONAL ACTIVITY

- Rocky Mountain Association of Geologists (RMAG)- Honorary Member
- Joint Oceanographic Institutions for Deep Earth Sampling(JOIDES) - Member on Pollution Prevention & Safety Panel
- American Association of Petroleum Geologists (AAPG) Distinguished Lecture Committee
- AAPG – Pioneer Award
- (AAPG) - Distinguished Lecturer
- University of Nebraska - Distinguished Alumni Award
- AAPG - Associate Editor
- RMAG-Distinguished Service
- Geological Society of America (GSA) -
- Committee on Committees
- GSA - Co-Chairman for Centennial Meeting, 1988
- AAPG - Advisory Board of the Treatise of Petroleum Geology
- RMAG- President
- AAPG - Committee on Publications
- University of Nebraska - Advisory Board, Department of Geology
- RMAG - President Elect
- AAPG - House of Delegates
- Editor, Rocky Mountain Foreland Basins and Uplifts
- RMAG - First Vice President
- AAPG - Program Chairman for National Meeting
- RMAG - Scientist of the Year

HONORARY SOCIETIES

- Sigma Gamma Epsilon
- Phi Beta Kappa
- Sigma Xi