Kiram E. Lezzar, Ph.D.

Senior Expert Energy Consultant
35+ Years of Global Oil & Gas Exploration & Discovery
Leveraging deep rift basin expertise and cutting-edge reservoir engineering characterization to accelerate resource identification and production operational success.

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PROFESSIONAL EXPERIENCE

- **KT | Kiloton Petroleum Services** (Houston TX) - Founder & CEO, 11/2026 – Present
- **Olive Energy** (The Woodlands TX) - Vice President Exploration, 1/2020 – 10/2026
- **FracGeo** (Spring TX) - VP Africa Oil & Gas, 12/2018 – 12/2019
- **SIGMA^3 Integrated Reservoir Solutions** (Houston TX) - Sr. Geoscientist, 1/2011 – 11/2018
- **Fusion Petroleum Technologies** (The Woodlands TX) - Senior Geologist, 2/2008 – 12/2010
- **Pima Community College** (Tucson AZ) - Geology Faculty, 1/2006 – 12/2007
- **The University of Arizona** (Tucson AZ) - Geology Instructor, 1/1999 – 11/2007
- **Syracuse University** (AZ) - Geology Post-Doc RA Fellow & Adjunct Faculty, 12/1998 – 5/2004

EDUCATION

- **1997:** Ph.D. Degree: Geosciences, University of Western Brittany, France.
- **1991:** Master's Degree: Marine Geosciences, University of Western Brittany, France.
- **1989:** Geological Engineering Degree: University of Science & Technology of Algiers.

PROFESSIONAL AFFILIATIONS

- AAPG
- SEG

TRAINING

- AAPG Applied Petroleum Geosciences Courses 2008
- Software: SeisWorks 2D-3D / SMT-IHS-Kingdom / FracPredictor / Petrel / Jewel Suite
- Foundational Offshore Survival Skills (BOSIET trained - 1999).

AWARDS

- **1988-1989; "**Best Geology Engineer Honors Graduate"**;** University of Science & Technology, Department of Each Sciences, Algiers, Algeria

RESEARCH WORK

- **1999-2007;** Lake Tanganyika Rift Basin Analysis: Seismic reflection data collection, processing, and interpretation; sediment coring on numerous deep-water cruises.

- **2003**; Lake Albert Rift Basin Exploration: Uganda and D.R. of Congo; Reflection seismic and sediment sample survey for an oil and gas exploration; acted as Chief Scientist on a cruise; coordinated contracts preparation with the DRC petroleum company Cohydro in Kinshasa and the Ugandan NOC.

- **2001;** Lake Malawi: Malawi/Mozambique; seismic reflection and surface sediment sampling in anticipation of the NSF-funded Lake Malawi Deep-Water Drilling Project.

- **1997**; 3D-3G Project: University of Western Brittany and Elf Petroleum Norway; explored "structure-infill" analogies between oil and gas reservoirs of East African rift basins and North Sea half-grabens.

- **1996**; Cruise TANGANYDRO: D.R. of Congo, East Africa; collected side-scan sonar data to map active hydrothermal vents; Scuba dove to sample oil seeps.

- **1992**; Cruise TANGASIS: D.R. of Congo and Burundi, East Africa; collected high-resolution sparker seismic data in northern Lake Tanganyika.

- **1992**; Cruise BandaSea I: Participated in reflection seismic data collection in the Banda Sea (Indonesia); deep-water sediment sampling using large dredges; collected magnetic and gravimetric data.

- **1991**; Summer Internship - TOTAL-Paris: Worked on a project that involves a sequence stratigraphic and reservoir facies analysis of the Champsaur Turbiditic Sandstones in the High Alps.

- **1997; Ph.D**., The University of Western Brittany, France (Geosciences)
  Dissertation: Evolution of the northern Lake Tanganyika Basin, East African Rift, since the Upper Miocene. Analysis of the rifting structure and stratigraphic record using seismic reflection, satellite images and sediment coring data.

- **1991; MS**., The University of Western Brittany, France (Marine Geosciences)
  Thesis: Structural analysis of the Alboran Margin, Western Mediterranean Sea.

- **1989; Engineer Degree**. University of Sciences and Technology of Algiers (Marine Geology State Engineer Diploma). Thesis: Nearshore sedimentary processes within the Algiers Bay.

RELEVANT PUBLICATIONS

- **2016**; Cortez, T., Wilson, S., Ingles, D., Energy & Exploration Partners, Fackler, M., Mediani, M., **Lezzar**, K.E., Taylor, S., Umholtz, N., Ouenes, A., Sweet Spot Identification for Drilling and Hydraulic Fracturing Using Geophysics, Geology, and Geomechanics. Application to the Buda and Georgetown Unconventional Play. *RMAG / DGS 3D Seismic Symposium, March 2016, Denver Colorado.*

- **2010**; McGlue, M.M., Soreghan, M.J., Michel, E., Todd, J.A., Cohen, A.S., Mischler, J.*, O'Connell, C.*, Castañeda, O.*, Hartwell, R.J., **Lezzar**, K.E., Nkotagu, H., Environmental controls on shell-rich facies in tropical lacustrine rifts: a view from Lake Tanganyika's littoral - Palaios

- **2008;** McGlue, M.M., **Lezzar**, K.E., Cohen, A.S., Russell, J. M., Tiercelin, J.-J., Felton, A.A., Mbede, E. and Nkotagu, H; Seismic records of late Pleistocene aridity in Lake Tanganyika, tropical East Africa. *Journal of Paleolimnology*.

- **2008**; McGlue, M.M., Soreghan, M.J., Mischler, J.*, O'Connell, C.*, Castañeda, O.*, Hartwell, R.J., Michel, E., Todd, J.A., Cohen, A.S., **Lezzar**, K.E., Nkotagu, H., Lacustrine shell accumulations in continental rifts: actualistic examples of depositional style and taphonomy from the littoral of Lake Tanganyika, East Africa: GSA Annual Meeting

- **2006**; McGlue, M.M., Scholz, C.A., Karp, T., Ongodia, B. and **Lezzar**, K.E; Facies Architecture of Flexural Margin Lowstand Delta Deposits in Lake Edward, East African Rift: Constraints from Seismic Reflection Imaging: *Journal of Sedimentary Research*, v. 76; no. 6; p. 942-958.

- **2002**; Tiercelin, J.-J., **Lezzar**, K.E. A 300 Million Years History of Rift Lakes in Central and East Africa: An Updated Broad Review. In: Odada, E.O., Olago, D.O. (eds) The East African Great Lakes: Limnology, Palaeolimnology and Biodiversity. Advances in Global Change Research, vol 12, p-3-60. Springer, Dordrecht.

- **2002**; **Lezzar**, K.E., Tiercelin, J.-J., Le Turdu, C., Cohen, A.S., Reynolds, D.J., Le Gall, B. and Scholz, C.A; Control of normal fault interaction on the distribution of major Neogene sedimentary depocenters, Lake Tanganyika, East African Rift: *American Association of Petroleum Geologists Bulletin*, v.86, p. 1027 – 1059.

- **1996**; **Lezzar**, K.E., Tiercelin, J.-J., De Batist, M., Cohen, A.S et al.; New seismic stratigraphy and Late Tertiary history of the North Tanganyika Basin, East African Rift system, deduced from multifold reflection and high-resolution seismic data and piston core evidence. *Basin Research*, 8, 1, p. 1-28.

- **1992**; Tiercelin, J.-J., Soreghan, M.J., Cohen, A.S., **Lezzar**, K.E. and Bouroullec, J.L; Sedimentation in large rift lakes: example from the Middle Pleistocene-Modern deposits of the Tanganyika Trough, East African Rift System. *Bulletin Centre de Recherche Exploration & Production, Elf Aquitaine Journal*, 16, 1, 83-111.

COMMUNITY ENGAGEMENT

- Youth Soccer Coach (Texas Rush Academy).
- ISGH Lead Community Volunteer (Education, Construction, Maintenance, Security & Funerals).
- Dual Citizen (Algeria & US) / Fluent Arabic, French & English / Functional Swahili / Basic Spanish