

Short Course – Dallas: Oil Geochemistry for the Geoscientist**WHEN:** Wed./Thurs., 7&8 March 2018, 8:00am – 5:00pm**WHERE:** **Hilton DoubleTree Hotel** (free parking)
8250 N. Central Expressway, Dallas, Texas, 75206**INSTRUCTORS:** **Harold Illich** – GeoMark Research
Dr. John Curtis – GeoMark Research**COST:** **\$1,575 per person** (includes course notes), limit 25 participants
- Discount available for multiple attendees from the same company
- 50% off for students or displaced geoscientists**AGENDA** Continental breakfast and light lunch served both days**First day, morning:** introduction, objectives, and assumptions; bulk geochemistry (API gravity, sulfur content, C15+ components, and stable carbon isotopes); whole-oil gas chromatography. Example data set I – oils in the data sets (I through IV) are interpreted by the participants in terms of compositional attributes discussed in the preceding.**First day, afternoon:** molecular fossils (biomarkers) and interpretive application of tricyclic terpanes.**Second day, morning:** interpretive application of pentacyclic terpanes.**Second day, afternoon:** interpretive application of steranes; thermal maturity indicators; indicators of marine upwelling and photic-zone euxinia; summary of *interpretive criteria*.*Interpretive criteria* have been defined using oils in GeoMark's OILS database. More than 11,000 oils were used to identify compositional attributes of oils from various depositional systems (e.g., distal, paralic, photo zone euxinic, and upwelled marine shales; carbonate and marl sources; coaly-resinitic systems; lacustrine and hypersaline sources).**INSTRUCTOR BIOS****Harold Illich** (Harold Illich, John Zumberge, and Stephen Brown course authors). Harold has four plus decades in the application of oil and rock geochemistry in analysis of basins mainly in North and South America, North Africa, and Western Europe. He retired early from Sun-Oryx (26 years), worked with GeoMark (17 years), and recently retired from Pioneer Natural Resources (5 years). Harold has presented this course more than twenty times. The course was updated in 2015-16.**John B. Curtis:** John has 42 years in the petroleum industry, starting with Texaco. He retired in 2016 from the Colorado School of Mines as Professor Emeritus of Geology and Geological Engineering. He has worked with GeoMark since 1996 in various capacities, and is currently responsible for resource potential studies in the US and Canadian Rockies and the SCOOP and STACK plays.**PARTICIPANT EXPECTATION**

On completion of the course, participants can expect to describe the origin and history of individual oils.

TARGET AUDIENCE

Geoscientists wishing to become skilled in the evaluation of bulk chemical and biomarker data now routinely available for oils and source rock extracts. No prior geochemical training is necessary for successful participation in the course.

REGISTER OR QUESTIONS**To register, respond with name(s) and e-mail(s) of each participant.****CONTACT:** Alma Ringer**E-MAIL:** aringer@geomarkresearch.com**PHONE:** (281) 856-9333