



BIOGRAPHICAL SKETCH

Alex Turta was a research engineer at the Alberta Research Council (ARC), which became Alberta Innovates Technology Futures and then Innotech Alberta. He worked at ARC for more than 25 years, until 2014, when he became the president of his own company A T EOR Consultancy Inc. He is a reservoir engineer with a Ph.D. in Enhanced Oil Recovery (EOR).

Alex was involved in the design of several projects of miscible CO₂ flooding for light oils and in the monitoring/evaluation of an immiscible CO₂ injection project in an intermediate viscosity oil field. He was instrumental in the selection of the 71 prospective Alberta oil reservoirs for CO₂-EOR and CO₂ storage, using an in-house ARC software (PRIZE and/or SelectEOR). In the period 2005-2009, he was the project leader of the 5-year project on flue gas and CO₂-Enhanced Gas Recovery (CO₂-EGR) and CO₂ storage in the gas pools. Recently, he cooperated in a carbon capture and storage (CCS) project in Romania.

Note: CV will be provided at request.

OUTLINE OF A ONE-DAY CO₂ COURSE

1. Introduction: EOR activity and fundamental aspects of miscible flooding, mainly for CO₂ flooding
2. Introduction: Mechanisms of CO₂ miscible flooding (phase behaviour, miscibility pressure, gravity over-ride, etc.)
3. Prediction of CO₂ flooding; miscible and immiscible. Screening of oil reservoirs for CO₂ flooding
4. CO₂ sources (natural and industrial platforms); equipment and wells
5. Surveillance and monitoring, including radioactive tracer programs
6. Process improvements; CO₂ foam, CO₂ gels, etc.
7. CO₂ Huff'n Puff
8. CO₂ storage in oil reservoirs during CO₂ EOR processes
9. Some well documented history cases; Miscible: Weyburn, SACROC, and Joffre. Immiscible: Bati Raman (Turkey), Trinidad and Romania projects, etc.

Email: aturta@shaw.ca
Phone: (403) 208-2778