CURRICULUM VITAE DR. S. KOKKALAS

STRUCTURAL GEOLOGY-NEOTECTONICS/MICROTECTONICS





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Education

1990-1995

B.Sc in Geology at the University of Patras.

1995-2000 Ph.D. in Structural Geology (Neotectonics-Microtectonics), Department of

Geology-University of Patras.

Appointments

2019-present Associate Professor in Neotectonics-Microtectonics at the Univ. of Patras,

Department of Geology, Greece.

2017-2019 Associate Professor in Structural Geology at Khalifa University, Department

of Earth Sciences, Abu Dhabi, UAE.

2014-2017 Associate Professor in Structural Geology at the Petroleum Institute,

Department of Petroleum Geoscience, Abu Dhabi, UAE.

2013-2014 Associate Professor in Neotectonics-Microtectonics at the Univ. of Patras,

Department of Geology, Greece

2008-2013 Assistant Professor in Neotectonics-Microtectonics at the Univ. of Patras,

Department of Geology, Greece

2006-2007 Visiting researcher at the *Geological and Environmental Dept.-Stanford*

University, California-USA in the Rock Fracture Group Laboratory (sabbatical

leave, one semester).

2003-2008 Lecturer in Neotectonics-Microtectonics at the Univ. of Patras, Department of

Geology, Greece

Field trip leader

• 2003-2013: Leading two field trips annually (total 11 days each academic year) training students in Geological mapping techniques (HP-metamorphic rocks in Cyclades islands in Greece) and Geotectonics of Greece (average of 70 students each academic year).

- 2014-2017: In PI two field trips every year for 4 days in areas of eastern and northern Emirates (Jebel Hafeet, Jebel Faya, Hatta), for the courses Geological Maps and Structural Geology.
- 2015-2019: One (1) day field trip for the Geomechanics course for SLB (Deep Blue3 Geomechanics fixed-step training program of SLB Middle East training center) and 6-days for the Field Structural Geology BlueEdge 2 Schlumberger training program, MLC. Extensive experience in Geological mapping of various tectonic settings (Apennines, Italy, Carboneras, Almeria, Spain, Arabian platform, UAE-Oman, Kruja-Budva zones, Montenegro.
- Organize 1-day field trip in Dibba area (UAE) for the *2nd EAGE Bootcamp* with the participation of 21 international students.
- Taught courses for Schlumberger (2015-2019) Field Structural Geology-Geomech.BlueEdge2 (2days taught course in MLC, Abu Dhabi and 4 days field trip in Jebel Hafeet, Ras Al Khaimah and Dibba field areas)

Research projects

1998 Research assistant in research program of *Enterprise Oil Exploration* Ltd. "Relations of faults and folds in the Cretaceous Limestones of the Ionian zone".

Geological surveillance in research drilling in Trizonia Island (3F project with IFP France). Scientific coordinator: Prof. F. Cornet

2015

Petroleum Institute: RIFP Project 15312: "Fracture characterization and fold-fracture relationships from the combination of LiDAR high resolution topographic data and outcrop analogue data: the Jebel Hafit anticline (UAE) as a case example. "PI Research Initiation Funding Program. Principal Investigator: Dr. Sotirios Kokkalas

Petroleum Institute: RIFP Project 15309: "Scaling effect of fracture distribution on heterogeneity and anisotropy in carbonate rocks" PI Research Initiation Funding Program. Principal Investigator: Dr. Sandra Vega

2015-2018 Petroleum Institute: Oil Subcommittee (PI) "Magnetic Nanoparticles (MNPs) for Reservoir characterization" Principal Investigator: Dr. Saeed Al Hassan (PI), Demokritos Research Center (Greece), UoI (Greece), KBSI (S. Korea), Vanderbilt (USA), funded by ADNOC.

2019-2020 «Reservoir characterization from outcrop analogues in Montenegro coastal area» (Geospatial Research Ltd. PI's : S. Kokkalas and R. Jones)

Professional Affiliations-Conferences Committees-Invited talks

- Organizing Committee member and Chair of session 5-Role of Geomechanics in tight reservoirs and unconventional (J. Verdon and S. Kokkalas) in EAGE/SPE Workshop on Integrated Geomechanics in E & P (23-26 Oct 2016) Abu Dhabi, UAE.
- Proposal evaluation committee member for the KNOC/KIGAM R&D workshop (Korean National Oil Company).
- Invited Speaker in Emirates Society of Geosciences (ESG): Modern Digital Technologies for Characterization of Fracture Networks and Mechanical Stratigraphy in Reservoir 3-D outcrop analogues. ADNOC HQ (6th Feb 2019), Abu Dhabi, UAE.
- Invited speaker in KAUST Research Conference: Recovery of Difficult Hydrocarbons. Session 4-Hydro-mechanical coupling in fractured & tight reservoirs. Ali Al-Naimi Petroleum Engineering Research Center (Feb 2018)
- Organizing Committee member in EAGE/SPE Workshop Geomechanics 2018 and EAGE 2020 Abu Dhabi, UAE.

Publications overview, author evaluation and Awards

- Published articles in International Scientific Journals: 44 (30 in SCI journals)
- Abstracts in International conferences and workshops: 60

• Total number of citations: 903 (h-index=20) (self-citations excluded): 805 (h-index=19) (source: Scopus-Elsevier B.V. & ISI-Thomson Scientific-accessed 11-12-2020)

Google Scholar Citations: 1396, h-index=24, i-10 index=28 (accessed 11-12-2020)

- *Invited article: The Oil and Gas Year Journal 2019 Abu Dhabi invited article* «From the ancient seas 600 million years ago to the modern deserts and sabkhas of UAE: a geological journey of the United Arab Emirates» pp.44-46.
- Best teacher award in Petroleum Geosciences Department for 2017.

SELECTED PUBLICATIONS

Articles in International Scientific Journals

- 1) Tombros, S.F., **Kokkalas S.**, Seymour, K.S., Voudouris, P.C., Williams-Jones, A.E., Zhai, D., Liu, J., Fitros, M., 2020. The Kallianos Au-Ag-Te mineralization, Evia Island, Greece: a detachment-related distal hydrothermal deposit of the Attico-Cycladic Metallogenetic Massif. *Mineralium Deposita*, 1-20
- 2) Fitros, M., Tombros, S.F., **Kokkalas**, S., Kilias, S.P., Perraki, M., Skliros, V., Simos, X., Papaspyropoulos, K., Avgouropoulos, G., Williams-Jones, A.E., Zhai, D., Hatzipanagiotou, K., 2020. REE-enriched skarns in collisional settings: The example of Xanthi's Fe-skarn, Rhodope Metallogenetic Massif, Northern Greece, *Lithos* 370, 105638.
- 3) KIM, S., JANG, Y., KWON, S., SAMUEL, V.O., KIM, S.W., PARK, S.I., SANTOSH, M., **KOKKALAS**, **S**., 2020. Petrotectonic evolution of metamorphic sole of the Semail ophiolite, UAE. *Gondwana Research* 86, 203-221
- 4) S. KOKKALAS, S., JONES R., WILKINSON M., DANIELS S., GILMENT S., NIZAMUDDIN, S., 2020. Comparison of fracture intensity measured in outcrop and μ CT core plugs in a carbonate reservoir analogue. *EAGE 4th Naturally Fractured Reservoir Workshop*, 11-13 Feb 2020, Ras Al Khaimah, UAE.
- 5) S. **KOKKALAS**, S. NIZAMUDDIN, S. VEGA 2019. Multi-scale Fracture Network Characteristics in a Carbonate Reservoir Outcrop Analogue: Insights from μCT data in Core Plugs and Thin Sections. 15th International Congress of the Geological Society of Greece, Athens 22-24 May 2019, *Bulletin of the Geological Society of Greece Sp. Publ* 7. Ext. Abs GSG2019-357.
- 6) *JOUN, H., **KOKKALAS**, S., TOMBROS, S. 2019 Recycled oceanic crust as a source for tonalite intrusions in the mantle section of the Khor Fakkan block, Semail ophiolite (UAE). *Geoscience Frontiers*, 10, 1187-1210.
- 7) JONES, R.R., **KOKKALAS**, S., LONG, J.J., DANIELS, S.E., GILMENT, S.R., WILKINSON, M.W., OXLADE, D.M. 2018. Calibration of fracture models using multi-scale outcrop analogues-The importance of mechanical stratigraphy, In *3rd EAGE Workshop on Naturally Fractured Reservoirs*, 2018-February.
- 8) *BRUNO, P.P.G., DUROSS, C.B., **KOKKALAS**, **S**. 2017. High-resolution seismic profiling reveals faulting associated with the 1934 Ms 6.6 Hansel Valley earthquake (Utah, USA). *Bulletin of the Geological Society of America*, 129 (9-10), pp. 1227-1240.
- 9) *WILKINSON, M.W., JONES, R.R., WOODS, C.E., GILMENT, S.R., MCCAFFREY, K.J.W., **KOKKALAS**, S., LONG, J.J. 2016. A comparison of terrestrial laser scanning and structure-from motion photogrammetry as methods for digital outcrop acquisition. *Geosphere*, 12 (6), pp. 1865-1880.
- 10) *KOKKALAS, S., AYDIN, A., 2013. Is there a link between faulting and magmatism in south-central Aegean Sea? *Geological Magazine* 150 (2) 193-224.
- 11) *KOKKALAS, S., KAMBERIS, E., XYPOLIAS, P., SOTIROPOULOS, S., KOUKOUVELAS, I., 2013. Coexistence of thin- and thick-skinned tectonics in Zakynthos area (Western Greece): insights from seismic sections and regional seismicity. *Tectonophysics*, vol. 597-598, 73-84.(in press-02/09/2012).

12) *JONES R.R., **KOKKALAS S.**, MCCAFFREY, K.J.W.. 2009. Quantitative Analysis and Visualisation of nonplanar fault surfaces using Terrestrial Laser Scanning ("LiDAR") - the Arkitsa Fault, central Greece as a case study. *Geosphere*, v.5, no.6, p.465-482, doi: 10.1130/GES00216.1