

Dr. Branimir Segvic

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Areas of specialisation

Clay Mineralogy, Low-temperature Geochemistry, Petrology, Sediment Diagenesis, Mineral Chemistry, Reservoir Characterization, Scientific Archaeology, Environmental Geochemistry

Professional positions

- 01/2017 – **Assistant Professor**
Department of Geosciences, Texas Tech University, United States
- 11/2013 – 10/2016: **Post-doctoral Scholar**
Department of Earth Sciences, University of Geneva, Switzerland
- 01 – 11/2013: **Research Scientist - Mineralogist**
COREM – A consortium of applied research for the processing and transformation of mineral substances, Québec, Canada
- 05/2010 – 10/2012: **Senior Lecturer and Researcher**
Institute of Applied Geosciences, Darmstadt Technical University, Germany
- 05/2004 – 04/2010: **Research and Teaching Associate**
Faculty of Mining, Geology and Petrol Engineering, University of Zagreb, Croatia
- 09/2007 – 02/2009: **Visiting Researcher**
Institute of Geosciences, University of Heidelberg, Germany

Education

- 2006 – 2010: **Ph.D. in Mineralogy**
Joint Faculty of Natural Sciences and Mathematics, Heidelberg University
Thesis: 'Petrologic and geochemical characteristics of the Krivaja-Konjuh ophiolite complex (NE Bosnia and Herzegovina) - petrogenesis and regional geodynamic implications'
Supervisor: Rainer Altherr
- 1997 – 2003: **Diploma in Geology**
Faculty of Mining, Geology and Petrol Engineering, University of Zagreb
Thesis: 'Petrology and geochemistry of greenschists from the central part of the Medvednica Mts (NW Croatia)'
Supervisor: Bosko Lugovic

Journal articles

- Segvic, B;** Slovenec, Da; Altherr, R; Babajic, E; Ferrerio Mählmann, R; Lugovic, B 'High-grade metamorphic soles from the Central Dinaric Ophiolite Belt and their significance for the Neotethyan evolution in the Dinarides' // **Ofioliti (2019)**, 44(1), 1-30, DOI: 10.4454/ofioliti.v44i1.462
- Slovenec, Da; **Segvic, B** 'Boninitic volcanism in the NW Dinaric-Vardar ophiolite zone (Mt. Medvednica, Croatia): petrology, geochemistry and tectono-magmatic evidences for existence Middle-Late Jurassic arc-forearc system in Tethyan subduction factories' // **Mineralogy and Petrology (2019)**, 113, 17-37, DOI: 10.1007/s00710-018-0637-0

- Segvic, B;** Girardclos, S; Zaroni, G; Arbiol González, C; Steimer-Herbet, T; Besse, M 'Origin and Paleoenvironmental Significance of Fe-Mn Nodules in the Holocene Perialpine Sediments of Geneva Basin, Western Switzerland'// **Applied Clay Sciences (2018)**, 60, 22-39, DOI: 10.1016/j.clay.2018.01.027
- Cuadros, J; **Segvic, B;** Dekov, V; Michalski, J; Baussà Baradaji, D 'Electron microscopy investigation of the genetic link between Fe oxides/oxyhydroxides and nontronite in submarine hydrothermal fields'// **Marine Geology (2018)**, 395, 247-259, DOI: 10.1016/j.margeo.2017.10.011
- Leila, M*; Moscariello, A; **Segvic, B** 'Depositional facies controls on the diagenesis and reservoir quality of the Messinian Qawasim and Abu Madi formations, onshore Nile Delta, Egypt'// **Geological Journal (2018)**, DOI: 10.1002/gj.3269 (*student author)
- Leila, M*; Moscariello, A; **Segvic, B** 'Geochemical constraints on the provenance and depositional environment of the Messinian sediments, onshore Nile Delta, Egypt: Implications for the Late Miocene paleogeography of the Mediterranean'// **Journal of African Earth Sciences (2018)**, 143, 215-241, DOI: 10.1016/j.jafrearsci.2018.03.024 (*student author)
- Mahrous, M*; **Segvic, B;** Zaroni, G; Khadka, SD; Senadheera, S; Jayawickrama, PW 'The role of clay swelling and mineral neoformation in the stabilization of high plasticity soils treated with fly ash and metakaolin based geopolymers'// **Minerals (2018)**, 8(4), 146, DOI:10.3390/min8040146 (*student author)
- Benvenuti, A*; **Segvic, B;** Moscariello, A 'Tunnel valley deposits from the southern North Sea - material provenance and depositional processes'// **Boreas (2018)**, 47 (2), 625-642, DOI: 10.1111/bor.12292 (*student author)
- Slovenec, Da; **Segvic, B** 'The first record of ultramafic cumulates from the Mt. Kalnik ophiolite mélange in the SW part of the Zagorje-Mid-Transdanubian Zone (NW Croatia): mineralogy, petrology, geochemistry and tectono-magmatic affinity'// **Geologia Croatica (2018)**, 71(3), 185-197, DOI: 10.4154/gc.2018.17
- Stutenbecker, L*; Delunel, R; Schlunegger, F; Adrião Silva, T; **Segvic, B;** Girardclos, S; Bakker, M; Costa, A; Lane, S; Loizeau, J-L; Molnar, P; Akçar, N; Christl, M 'Reduced sediment supply in a fast eroding landscape? A multi-proxy sediment budget of the upper Rhône basin, Central Alps'// **Sedimentary Geology (2018)**, 375, 105-119, DOI: 10.1016/j.sedgeo.2017.12.013 (*student author)
- Ragusa, J*; Kindler, P; **Segvic, B;** Ospina-Ostios, L. M 'Provenance analysis of the Voirons Flysch (Gurnigel nappe, Haute-Savoie, France): Stratigraphic and paleogeographic implications'// **International Journal of Earth Sciences (2017)**, 106 (8), 2619-2651, DOI: 10.1007/s00531-017-1474-9 (*student author)
- Segvic, B;** Benvenuti, A; Moscariello, A 'Illite-smectite rich clay parageneses from Quaternary tunnel valley sediments of the Dutch Southern North Sea - mineral origin and paleoenvironment implications'// **Clays and Clay Minerals (2016)**, 64 (5), 488-507, DOI: 10.1346/CCMN.2016.064026.
- Zaroni, G*; **Segvic, B;** Moscariello, A 'Clay mineral diagenesis in Cretaceous clastic reservoirs from west African passive margins (the South Gabon Basin) and its impact on regional geology and basin evolution history'// **Applied Clay Sciences (2016)**, 134 (3), 186-209, DOI: 10.1016/j.clay.2016.09.032 (*student author)
- Segvic, B;** Lugovic, B; Slovenec, Da; Meyer, H-P 'Mineralogy, petrology and geochemistry of amphibolites from the Kalnik Mt. (Sava Unit, North Croatia): Implications for the evolution of north-westernmost part of the Dinaric-Vardar branch of Mesozoic Tethys'// **Ofioliti (2016)**, 41 (1), 35-58, DOI: 10.4454/ofioliti.v41i1.441
- Segvic, B;** Ugarkovic, M; Süssenberger, A; Ferreiro Mählmann, R; Moscariello, A 'Compositional properties and provenance of Hellenistic pottery from the necropolis of Issa with evidences on the cross-Adriatic and the Mediterranean-scale trade'// **Mediterranean Archaeology & Archaeometry (2016)**, 16 (1), 23-52, DOI: 10.5281/zenodo.44773
- Segvic, B;** Kukoc, D; Dragicevic, I; Vranjkovic, A; Brcic, V; Gorican, S; Babajic, E; Hrvatovic, H; 'New record of Middle Jurassic radiolarians from mélange of the Central Dinaridic Ophiolite Zone (CDOB) and its implications to Neotethyan dynamics in the Dinarides'// **Ofioliti (2014)**, 39 (1), 31-41, DOI: 10.4454/ofioliti.v39i1.427

- Segvic, B;** Mileusnic, M; Aljinovic, D; Vranjkovic, A; Mandic, O; Pavelic, D; Dragicevic, I; Ferreiro Mählmann R 'Magmatic Provenance and Diagenesis of Miocene Tuffs from the Dinaride Lake System (The Sinj Basin, Croatia)'// **European Journal of Mineralogy (2014)**, 26 (1), 83-101, DOI: 10.1127/0935-1221/2013/0025-2350
- Uzarowicz, Ł; **Segvic, B;** Michalik, M; Bylina, P 'The effect of hydrological conditions and the pH of environment on phyllosilicate transformations in the weathering zone of pyrite-bearing schists in Wieściszowice (SW Poland)'// **Clay Minerals (2012)**, 47, 401–417, DOI: 10.1180/claymin.2012.047.4.01
- Segvic, B;** Seselj, L; Slovenec, Da; Lugovic, B; Ferreiro Mählmann, R 'Composition, Technology of Manufacture, and Circulation of Hellenistic Pottery from the Eastern Adriatic: A Case Study of Three Archaeological Sites along the Dalmatian Coast, Croatia'// **Geoarchaeology (2012)**, 27 (1), 63-87. DOI: 10.1002/gea.21379
- Ferreiro Mählmann, R; Le Bayon, R; Bozkaya, Ö; Potel, S; **Segvic, B;** Nieto García, F 'Clay mineral diagenesis/very low-grade metamorphic processes - The pioneer work of Bernhard Kübler and Martin Frey in very low-grade metamorphic terraines: Palaeo-geothermal potential of Kübler-Index – organic matter reflectance correlation'// **Swiss Journal of Geosciences (2012)**, 105, 121-152. DOI: 10.1007/s00015-012-0115-3
- Uzarowicz, Ł; Skiba, S; Skiba, M; **Segvic, B** 'Clay mineral formation in soils developed in a pyrite-bearing schists weathering zone: a case study from the abandoned pyrite mine in Wieściszowice (Lower Silesia, SW Poland)'// **Clays and Clay Minerals (2011)**, 59 (6), 581-594. DOI: 10.1346/CCMN.2011.0590604
- Kandler, K; Schütz, L; Jäckel, S; Lieke, K; Emmel, C; Müller-Ebert, D; Ebert, M; Scheuven, D; Schladitz, A; **Segvic, B;** Wiedensohler, A; Weinbruch, S 'Ground-based off-line aerosol measurements at Praia, Cape Verde, during the Saharan Mineral Dust Experiment: Microphysical properties and mineralogy'// **Tellus B (2011)**, 63 (4), 459–474. DOI: 10.1111/j.1600-0889.2011.00546.x
- Lugovic, B; **Segvic, B;** Segvic, T 'Mn-crust todorokite mineralization on SW backshore Cretaceous limestones from the island of Dugi Otok (Central Adriatic, Croatia)'// **Acta Adriatica (2008)**, 49, 55-64.
- Segvic, B;** Lugovic, B; Tadej, N; Bermanec, V; Panjkota, L 'Si-P impure Al-goethite mineralization on the island of Dugi Otok (Central Adriatic, Croatia)'// **Geologia Croatica (2008)**, 61, 139-147. DOI: 10.4154/GC.2008.04
- Lugovic, B; **Segvic, B;** Altherr, R 'Petrology and tectonic significance of greenschists from the Medvednica Mts (Sava Unit, NW Croatia)'// **Ofioliti (2006)**, 31, 39-50. DOI: 10.4454/ofioliti.v31i1.326

Accepted and submitted articles

- Monson, CC; Sweet, DE; **Segvic, B;** Zandoni, G; Balling, K; Wittmer, JM; Ganis, GR 'The Late Ordovician (Sandbian) Glasford Structure: A marine-target impact crater connected to the 'Ordovician meteor event''// **Meteoritics and Planetary Science**
- Shawwa, N; Chesnel, V; **Segvic, B;** Makhouloufi, Y; Merino-Tomé, Ó; Fernández, L.P; Samankassou, E 'Linking subaerial exposures to lower Pennsylvanian climatic changes: Insights from the Valdorria carbonate platform, northern Spain'// **Sedimentology**
- Khadka, SD; Jayawickrama, PW; Senadheera, S; **Segvic, B** 'Stabilization of high sulfate montmorillonitic and vermiculitic soil using metakaolin and fly ash based geopolymer activated with lime and gypsum'// **Transportation Geotechnics**
- Segvic, B;** Zandoni, G; Moscariello, A 'On the Origins of Eogenetic Chlorite in Verdine Facies Sedimentary Rocks'// **The Journal of Geology**
- Zandoni, G*; **Segvic, B** 'On clay mineral diagenesis in alternating mudstone-sandstone series from Late Paleozoic strata of the Anadarko Basin, USA'// **Sedimentology** (*student author)
- Tarokh, A; Kim, K; Zhu, X; Makhnenko, RY; Popovics, JS; **Segvic, B;** Sweet, DE 'Influence of CO₂ injection on the poromechanical response of Berea sandstone' // **International Journal of Greenhouse Gas Control**

Monson, CM; Tarokh, A; Kim, K; Makhnenko, RY; Sweet, DE; **Segvic, B**; Cheng, G; Zandoni, G; Horita, J 'Characterization of the Carbon Storage Sink-and-Seal System Within the Glasford Meteorite Impact Structure (Illinois, USA)' // **Geochemistry, Geophysics, Geosystems**

Slovenec, Da; **Segvic, B**; Halamic, J; Gorican, S; Zandoni, G 'An ensialic volcanic arc along the northwestern edge of Paleotethys? – insights from the Mid-Triassic volcano-sedimentary succession of Ivanščica Mt. (northwestern Croatia)' // **Geological Journal**

Leila, M*; Moscariello, A; **Segvic, B** 'Differentiation of pre- and syn-Messinian salinity crisis sandstone in the Nile Delta onshore region based on their diagenetic signatures' // **Journal of Petroleum Geology** (*student author)

Book chapters

Ugarkovic, M; **Segvic, B** (2018) The role of archaeometry in the study of production and dispersal of Hellenistic pottery in Dalmatia, with new evidence on the chemistry of grey-ware tableware, in: Lipovac Vrkljan, G., Konestra, A. (Eds.), Pottery Production, Landscape and Economy of Roman Dalmatia - Interdisciplinary Approaches, Roman Archaeology. **Archaeopress Publishing Ltd.**, Oxford, pp. 89 – 106.

Conference papers and abstracts (last 5 years)

Segvic, B; Girardclos, S; Zandoni, G; Arbiol González, C; Steimer-Herbet, T; Besse, M 'Fe-Mn nodules in young soils of Grand-Saconnex (Geneva, Switzerland): encrustation hampered by the Late Neolithic soil drainage?' / Abstract Volume 16th Swiss Geoscience Meeting, Bern, 30th November - 1st December **2018**, 342.

Cheng, G; Marshak, S; Monson, CC; Sweet, DE; **Segvic, B**; Lundstrom, CC 'Mesoscopic and microscopic deformation in the Glasford meteorite impact structure, Illinois: Impact fracturing in carbonate bedrock' / GSA Annual Meeting, Indianapolis, Indiana, USA, 4th-7th November **2018**. DOI: 10.1130/abs/2018AM-320099

Segvic, B; Zandoni, G; Sweet, D; Moscariello, A 'Clay mineralogy and the origin of unconventional Paleozoic shale reservoirs from the North American Midcontinent' / Abstract Volume 9th Mid-European Clay Conference, MECC 2018, Zagreb, Croatia, 17th-21th September **2018**. (Plenary lecture)

Zandoni, G; **Segvic, B**; Coe, J; Sweet, D 'Smectite stability in alternating mudstone-sandstone facies from the Pennsylvanian Hoxbar Group (Anadarko Basin, Oklahoma)' / Abstract Volume 9th Mid-European Clay Conference, MECC 2018, Zagreb, Croatia, 17th-21th September **2018**.

Shawwa, A. N; Merino-Tomé, Ó; **Segvic, B**; Fernández, L.P; Bahamonde Rionda J.R; Samankassou, E 'Paleokarst in the Cantabrian Zone: Witness to Pennsylvanian paleoclimate evolution at equatorial latitudes' // 20th International Sedimentological Congress, Québec City, Canada, 13th-17th August **2018** / Abstract Book, INRS, Université Laval, Natural Resources Canada.

Coe, J; **Segvic, B**; Zandoni, G; Moscariello, A 'A Detailed Investigation of Facies Characterization, Pore-filling Clay Mineral Diagenesis, and Sediment Provenance in Pennsylvanian Clastic Reservoirs of the Anadarko Basin, Oklahoma' / Abstract Volume AAPG Annual Convention and Exhibition, Salt Lake City, 20th-23th May **2018**.

Diaby, MH; Zandoni, G; Sweet, DE; **Segvic, B** 'Clay minerals as Quaternary climate change indicators in the Southern High Plains, West Texas' / Abstract Book, Texas Academy of Science Annual Meeting, Midland, 2nd-4th March **2018**, 43.

Zandoni, G; **Segvic, B** 'An Insight into the Origin of Midcontinent Unconventionals Using an Integrated Mineralogical and Geochemical Approach' / Abstract Book, Texas Academy of Science Annual Meeting, Midland, 2nd-4th March **2018**, 42.

Monson, CC; Makhnenko, RY; Tarkokh, A; Kim, K; Sweet, ED; **Segvic, B** 'Assessment of the Potential of CO₂ Storage in Glasford Meteorite Impact Structure' / Abstract Book, GSCO2 Annual Meeting, University of Illinois at Urbana-Champaign, 13nd-15th February **2018**.

- Yaw Kusi, N; Lewis, KL; Morgan, GD; **Segvic, B** '*Identifying the Possible Control of Clay Mineralogy of Soils in Some Southern US States over the Fluctuations in Potassium Fixation*' / Abstract Book, ASA, CSSA and SSSA International Annual Meetings, Tampa FL, 22th-25th October **2017**, abstract 106570.
- Shawwa, A. N; Chesnel, V; **Segvic, B**; Makhloufi, Y; Merino-Tomé, Ó; Fernández, L.P; Samankassou, E '*Linking subaerial exposures to paleoenvironments and paleoclimates: records from the Valdorria carbonate platform, northern Spain*' / Abstract Book – 33th International Meeting of Sedimentology, Toulouse, 10th-12th October **2017**, 826.
- Segvic, B**; Girardclos, S; Zanoni, G; Arbiol Gonzalez, C; Steimer-Herbert, T; Besse, M '*On the occurrence and origin of eogenetic Fe-Mn nodules in the post-Würmian Alpine sediments of Geneva basin, Western Switzerland*' / Abstract Book, 16th International Clay Conference, Granada, 17th-21th July **2017**, Vol. 7, 693.
- Zanoni, G; **Segvic, B**; Moscariello, A '*Diagenetic transformations of smectite, chlorite, and illite in productive Cretaceous reservoirs of the South Gabon Basin (West Africa)*' / Abstract Book, 16th International Clay Conference, Granada, 17th-21th July **2017**, Vol. 7, 824.
- Shawwa, A. N; Chesnel, V; **Segvic, B**; Merino-Tomé, Ó; Fernández, L.P; Samankassou, E '*Diagenetic influences on the Pennsylvanian platform-top karstic system of Valdorria, Northern Spain*' / Abstract Book - SEPM and CSPG Mountjoy Carbonate Research Conference, Austin, 25th-30th June **2017**.
- Shawwa, A. N; Chesnel, V; **Segvic, B**; Merino-Tomé, Ó; Fernández, L.P; Samankassou, E '*Linking subaerial exposures to paleoenvironments and paleoclimates (Valdorria carbonate platform, northern Spain)*' / Abstract Volume 25th Meeting of Swiss Sedimentologists, Fribourg, 25th February **2017**, 39.
- Perret, M; **Segvic, B**; Puigdefabregas, C; Moscariello, A; Clark, J; Fildani, A; Dykstra, M; Castelltort, S '*Petrography and clay mineralogy of Eocene clastic rocks from the Tremp-Graus-Ainsa basin, Southern Pyrenean Foreland (Spain) - Reconstruction of sediment provenance and burial diagenesis*' / Abstract Volume 14th Swiss Geoscience Meeting, Geneva, 18th-19th November **2016**, 195.
- Zanoni, G; **Segvic, B**; Moscariello, A '*Clay mineral diagenesis in Cretaceous Dentale and Gamba clastic reservoirs from the South Gabon Basin (West African passive margin) – new insights on the regional geology and basin evolution history*' / Abstract Volume 14th Swiss Geoscience Meeting, Geneva, 18th-19th November **2016**, 76.
- Süssenberger, A; Schmidt, S. Th; **Segvic, B**; Baumgartner, L '*Contact vs regional metamorphism in the area of Torres Del Paine (Southern Chile) – combining Raman spectroscopy and clay investigations*' / Abstract Book, GSA Annual Meeting in Denver, Colorado, USA, 25th September **2016**. DOI: 10.1130/abs/2016AM-285464
- Segvic, B**; Zanoni, G; Moscariello, A '*Clay minerals from Mesozoic clastic reservoirs of the South Gabon Basin (West Africa) - diagenesis and impacts on regional geology*' / Abstract Volume 8th Mid-European Clay Conference, MECC 2016, Kosice, Slovakia, 4th-8th July **2016**.
- Süssenberger, A; Schmidt, S. Th; **Segvic, B**; Baumgartner, L. '*Transition from regional to contact metamorphism in the area of Torres del Paine (Southern Chile) – insights from the clay mineralogy perspective*' / Abstract Volume 8th Mid-European Clay Conference, MECC 2016, Kosice, Slovakia, 4th-8th July **2016**
- Perret, M; **Segvic, B**; Castelltort, S; Puigdefabregas, C; Moscariello, A; Clark, J; Fildani, A; Dykstra, M '*Reconstruction of Sediment Provenance and Pathway From Source-to-Sink: Example of the Tremp-Graus-Ainsa Basins, Southern Pyrenean Foreland Basin, Spain*' / Abstract Volume AAPG Annual Convention and Exhibition, Calgary, 21th June **2016**.
- Zanoni, G; **Segvic, B**; Moscariello, A; Tranchet, L '*New Insights on the Reservoir Geology, Mineralogy and Geochemistry of the Dentale and Gamba Formations (Early Cretaceous, Gabon) and Their Implications for Regional Geology and Pore-Scale Characterization*' / Abstract Volume AAPG Annual Convention and Exhibition, Calgary, 21th June **2016**.
- Moscariello, A; **Segvic, B**; Lehu, R; Pedersen, G; Gonus, J; Arbiol González, C; Limeres, A; Bernhardt, C; Perez, D; Thompson, A; Dandrea, F; Ancheta, D; Saccomano, A; Vocaturo, G; Sallier, B; Massaferrero, J;

- Morettini, R 'New Insights on the Characterisation of the Pyroclastic-rich Bajo Barreal Fluvial Reservoir (Argentina)' / Extended Abstract - 78th EAGE Conference and Exhibition 2016, Vienna, 30th May-2nd June 2016. DOI: 10.3997/2214-4609.201600600
- Benvenuti, A; **Segvic, B**; Moscariello, A 'Provenance investigations on the pre-glacial and the Elsterian tunnel valley deposits from the Dutch North Sea - new evidences on the glaciogenic origin of the TV infill' / Abstract Book, William Smith Meeting 2016, London, 2nd-3th June 2016, 115.
- Segvic, B**; Moscariello, A; Arbiol González, C; Vocaturo, G; Lehu, R; D'Odorico, A; Limeres, A; Bernhardt, C; Ancheta, A; Morettini, E 'Reservoir quality prediction based on clay minerals and zeolites distribution: new insights from the pyroclastic-rich Bajo Barreal Formation, Argentina' / Abstract Volume 13th Swiss Geoscience Meeting, Basel, 20th-21th November 2015, 226.
- Zanoni, G; **Segvic, B**; Moscariello, A; Tranchet, L 'Reservoir geology, mineralogy and geochemistry of the Dentale and Gamba Formations (Early Cretaceous, Gabon): new insights both at regional and pore scale' / Abstract Volume 13th Swiss Geoscience Meeting, Basel, 20th-21th November 2015, 228.
- Perret, M; **Segvic, B**; Castellort, S; Clark, J; Puigdefabregas, C; Fildani, A 'Propagation of detrital signals in the source-to-sink systems of the Tremp-Graus-Ainsa basins, Southern Pyrenean Foreland Basin, Spain' / Abstract Volume 13th Swiss Geoscience Meeting, Basel, 20th-21th November 2015, 188.
- Do Couto, D; **Segvic, B**; Moscariello, A 'Petrography and geochemistry of the Lower Jurassic shale in the southwestern Molasse Basin' / Abstract Volume 13th Swiss Geoscience Meeting, Basel, 20th-21th November 2015, 232.
- Ugarkovic, M; **Segvic, B** 'New insights into the far-flung markets of Levantine products: The Phoenician amphoriskoi from Issa' / 2nd IARPotHP conference: Daily life in a cosmopolitan world: Pottery and culture during the Hellenistic period, Université Lyon 2, Lyon, 5th-8th November 2015, 20-21.
- Segvic, B**; Ugarkovic, M; Moscariello, A 'Automated Mineralogy in Ceramic Research – Advantages, Potential Pitfalls, and Future Perspectives' / 13th European Meeting on Ancient Ceramics, At N.C.S.R. "Demokritos" and British School at Athens, Athens, 24th-26th September 2015.
- Segvic, B**; Arbiol González, C; Zanoni, G; Moscariello, A 'Quantitative petrography workflow for reservoir rock characterisation' / Abstract Book SCCER SOE Annual conference 2015 – Challenges and Prospects of Hydropower and Deep Geothermal Electricity Production in Switzerland, Université de Neuchâtel, Neuchâtel, 10th-11th September 2015.
- Do Couto, D; **Segvic, B**; Moscariello, A 'Petrography of a potential CO₂ seal in the Lower Jurassic in the south-western Molasse basin' / Abstract Book SCCER SOE Annual conference 2015 – Challenges and Prospects of Hydropower and Deep Geothermal Electricity Production in Switzerland, Université de Neuchâtel, Neuchâtel, 10th-11th September 2015.
- Ragusa, J; Kindler, P; **Segvic, B** 'Reconstructing the sediment provenance of the Voirons Flysch (Gurnigel Nappe, Haute-Savoie, France)' / Abstract Book Emile Argand Conference – EGU series, 12th Alpine Workshop, Montgenève / Briançon, 13th-19th September 2015.
- Segvic, B**; Süssenberger, A; Ugarkovic, M; Moscariello, A 'Mineralogy and cultural heritage – introducing QEMSCAN® automated technology to the study of ancient artefacts' / Abstract Volume 12th Swiss Geoscience Meeting, Fribourg, 21th-22th November 2014, Drilling the Earth, 89-90.
- Moscariello, A; **Segvic, B** 'Palaeosoils stacking patterns as a tool for unravelling the subsurface architecture of mud-rich fluvial reservoirs' / Abstract Volume 12th Swiss Geoscience Meeting, Fribourg, 21th-22th November 2014, Drilling the Earth, 37-38.
- Segvic, B**; Lugovic, B; Slovenec, Da 'New evidence of the youngest oceanic crust in the Zagorje - Mid-Transdanubian Zone based on the example of Lower Cretaceous metamorphic sole from the Kalnik Mt. (North Croatia)' / CBGA 2014, Tirana, 24-26 September 2014 / Proceedings XX congress of the Carpathian-Balkan geological association, Bequiraj A., Ionescu C., Christofides G., Uta A., Bequiraj Goga E., Marku S. (eds.), 49.

Ugarkovic, M; **Segvic, B**; Ferreiro Mählmann, R '*Insights in the technology of manufacture and provenance of ceramic vessels from the necropolis of Hellenistic Issa (Middle Adriatic, Croatia)*' / CBGA 2014, Tirana, 24-26 September **2014** / Proceedings XX congress of the Carpathian-Balkan geological association, Bequiraj A., Ionescu C., Christofides G., Uta A., Bequiraj Goga E., Marku S. (eds.), 71.

Segvic, B; Vranjkovic, A; Kukoc, D; Brcic, V; Gorican, S; Babajic E; Hrvatovic H; Dragicevic, I; Paden M '*Middle Jurassic radiolarians from ophiolitic mélange of Dinaride ophiolite zone (DOZ) – age and geodynamic significance (Papratnica river, northern Bosnia and Herzegovina)*' // The XVI Serbian Geological Congress – Proceedings (Serbian Geological Society), Gornji Milanovac, 22nd-25th May **2014** / Cvetkovic V (ed.), 82-84.

Vranjkovic, A; Gierlowski-Kordesch, E; Pavelic, D; Dragicevic, I; Mandic, O; Harzhauser, M; Jakupec, E; **Segvic, B**; Brcic V; de Leeuw A. '*Microfacies and sedimentary environment of the fluvio-lacustrine Island Pag Basin (Early Miocene, S Croatia)*' // 19th International Sedimentological Congress, Geneva, 18-22 August **2014** / Abstract Book, Université de Genève, 723.

Invited talks

Darmstadt Technical University, Darmstadt, Germany (22th January 2019) *Trace-element budget of illite-like phases from mid-continent shale – diagenetic control and its implications* – GeoKolloquium of the Institute of Applied Geosciences

9th Mid-European Clay Conference, MECC 2018, Zagreb, Croatia (17th-21th September 2018) *Clay mineralogy and the origin of unconventional Paleozoic shale reservoirs from the North American Midcontinent - Plenary lecture*

Institute of Archaeology, Zagreb, Croatia (30th November 2015) *Characteristics of ceramics and raw clays used by Hellenistic communities of the eastern Adriatic coast – questions of material provenance and its compositional properties*

University of Geneva, Geneva, Switzerland (18th June 2013) *Magmatic Provenance and Diagenesis of Miocene Tuffs from the Dinaride Lake System (The Sinj Basin, Croatia)* – Department of Earth Sciences Seminar Series

Teaching

2017 –

Courses taught at Texas Tech University (USA)

GEOL 3401 Mineralogy, GEOL 3325 Sedimentary Petrology, GEOL 5305 Geology of Clays; GEOL 5304 Techniques in Electron Microscopy and Micro-Analysis

2013 – 2016:

Courses taught at University of Geneva (Switzerland)

Low-temperature crust processes, QEMSCAN instrumental methods

2010 – 2012:

Courses taught at Darmstadt Technical University (Germany)

Instrumental analytics, Advanced Petrology, Optical Mineralogy, Clay Mineralogy

2008 – 2010:

Courses taught at University of Zagreb (Croatia)

Igneous and Metamorphic Petrology Lab, Optical Mineralogy Lab, General Geology Lab

Professional Affiliations

Clay Mineral Society (CMS), American Association of Petroleum Geologists (AAPG), Croatian Geological Society – Group for Clays (HGD), Society of Archaeological Sciences (SAS)

Language Competences

English / French / Croatian – full professional fluency

Laboratory managements

Clay and XRD laboratory (Responsible Professor) at Texas Tech Univ. (USA)	2017 –
SEM / QEMSCAN Lab Manager at University of Geneva (Switzerland)	2013 – 2016
SEM / MLA Lab Manager at COREM (Canada)	2012 – 2013
X-ray diffraction Lab Manager at Darmstadt Technical University (Germany)	2010 – 2012

Service

Reviewer record (2017-2018) available at: <https://publons.com/author/1391861>

Reviewed for: Aeolian Research (*Elsevier*), Austrian Journal of Earth Sciences (*Aust. Geol. Soc.*), Australian Journal of Earth Sciences (*Taylor & Francis*), Basin Research (*Wiley-Blackwell*), Ceramics (*MDPI*), Clay Minerals (*Mineralogical Society*), Crystals (*MDPI*), Geologica Acta (*Uni Barcelona*), Geosciences (*MDPI*), International Journal of Coal Geology (*Elsevier*), Journal of African Earth Sciences (*Elsevier*), Journal of Petroleum Science and Engineering (*Elsevier*), Journal of Paleolimnology (*Springer*), Marine and Petroleum Geology (*Elsevier*), Sedimentology (*Wiley-Blackwell*), Soil Systems (*MDPI*), Soils and Foundations (*Elsevier*), The Mining Geological and Petroleum Eng. Bulletin (*Uni Zagreb*)

Editor: Open Archaeology (*De Gruyter*), The Mining Geological and Petroleum Eng. Bulletin (*Uni Zagreb*)

State of Geneva (Switzerland)	Judicial expert in forensic archaeology
Geology Curriculum Reform for Undergraduates – Texas Tech University	Committee member (2017)
Textbook Committee – Department of Geosciences, Texas Tech University	Committee member (2018 –)
TTU Geoscience Research Day	Coordinator (2018)