

Stavros Kalaitzidis

*Assistant Professor
in "Economic Geology"*



Personal Information

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Education

2007 **Ph.D. in Economic Geology of Energy Sources**, University of Patras, Department of Geology,
Thesis Title: **“Peatification and evolution of peatlands in Greece**
1997 **Diploma: B.Sc. Honours in Geology**, University of Patras, Faculty of Sciences, Department of
Geology.

Professional experience

2016 – today **Assistant Professor** Economic Geology, Dept. of Geology, University of Patras
2014 – 2015 **Lecturer** Economic Geology, Department of Geology, University of Patras
2012 - 2014 **Senior Geologist**, Integral Resource Consulting Pty. Ltd
2011 - 2012 **Superintendent Geology & Survey (Acting)** BHP Billiton Mitsubishi Alliance (BMA), Saraji
Mine, Queensland, Australia
2010 - 2011 **Mine Operations Geologist & Senior Geologist**, BHP Billiton Mitsubishi Alliance (BMA), Saraji
Mine, Queensland, Australia
2008 - 2010 **Exploration Geologist**, BHP Billiton Mitsubishi Alliance (BMA), Resource Development Group,
Geological Services, Queensland, Australia
2008 **Coal Geologist**, Research Contract with Institute for Solid Fuels Technology and Applications
(ISFTA), Athens, Greece
2006 **Coal Petrographer**, Greek Institute of Geology and Mineral Exploration (IGME), Athens
1998 - 2008 **Research & Teaching Assistant** at the Geo-Energy Resources Team, Department of Geology,
University of Patras, Greece

Professional & Academic Profile

Fields of research interest: Coal Geology & Mining, Energy Resources, Organic Petrology, Ore Geology,
Environmental impacts from the utilization of raw materials, Modelling, Resource Estimation.
2008 – 2016: Elected as **Secretary of Commission I** of the International Committee for Coal and Organic
Petrology (**ICCP**).
2016 - present: Elected as **Chair of Commission I** of the International Committee for Coal and Organic Petrology
(**ICCP**).
July 2017 – present: **Member of the Board of Directors** of the Greek Institute for Geology and Mineral
Exploration (**IGME**).

Teaching Profile

Modules taught at the undergraduate course (Dept. of Geology, University of Patras, Greece):

- *Ore Geology (2015 - to date)*
- *Insights in Ore geology (2014 - to date)*
- *Introduction to Exploration and Mining Geology (2015 - to date)*

- *Methods on Research and Analysis of Minerals and Rocks (2016- to date)*
- *Fieldtrip “Karstic bauxites in Parnassos Area, Exploration to Metallurgical Processing” (coordinator; 2015- to date)*
- *Fieldtrip “Lateritic Fe-Ni ores in Central Greece, Exploration to Metallurgical Processing” (coordinator; 2015-to date)*
- *Fieldtrip “General Geological field trip in Western and Northern Greece” (coordinator; 2015-to date)*

Modules taught at the postgraduate course (Dept. of Geology, University of Patras, Greece):

- *Environmental impacts from exploitation of earth materials – Rehabilitation of landscape and the environment*
- *Instrumental methods for the analysis of earth materials*

Selected Publications

- Pross, J., Kotthoff, U., Müller, U.C., Peyron, O., Dormoy, I., Schmiedl, G. and **Kalaitzidis, S.**, 2009. Massive perturbation in terrestrial ecosystems of the Eastern Mediterranean region associated with the 8.2 kyr climatic event. *Geology*, 37: 887-890.
- **Kalaitzidis, S.**, Siavalas, G., Skarpelis, N., Araujo, C.V. and Christanis, K., 2010. Late Cretaceous coal overlying karstic bauxite deposits in the Parnassus-Ghiona unit, Central Greece: coal characteristics and depositional environment. *Int. J. Coal Geol.*, 81: 211-226.
- Karapanagioti, H., **Kalaitzidis, S.**, Vakros, I., Christanis, K. and Liebner, F., 2010. The effect of ammonoxidation on the geochemical properties of lignite. *Environmental Chemistry Letters* 8/4: 373-380.
- Koukouzas, N., **Kalaitzidis, S.P.** and Ward, C.R., 2010. Organic petrographical, mineralogical and geochemical features of the Achlada and Mavropigi lignite deposits, NW Macedonia, Greece. *Int. J. Coal Geology*, 83: 387-395.
- Arp, H.P., Villers, F., Lepland, A., **Kalaitzidis, S.**, Christanis, K., Oen, A.M.P., Breedveld, G.D. and Cornelissen, G., 2011. Influence of Historical Emission Patterns on Porewater and Partitioning Profiles of PAHs and PCBs in Oslo Harbor Sediment Cores. *Environ. Toxicol. Chem.*, 30/4: 843-851.
- Milner, A.M., Collier, R.EL., Roucoux, K.H., Müller, U.C., Pross, J., **Kalaitzidis, S.**, Christanis, K., Tzedakis, P.C., 2012. Enhanced seasonality of precipitation in the Mediterranean during the early part of the Last Interglacial. *Geology*, 40/10: 919-922.
- Milner, A.M., Müller, U.C., Roucoux, K.H., Collier, R.EL., Pross, J., **Kalaitzidis, S.**, Christanis, K., Tzedakis, P.C., 2013. Environmental variability during the Last Interglacial: a new high-resolution pollen record from Tenaghi Philippon, Greece. *J. Quaternary Sci.* 28/2: 113–117.
- Iordanidis, A., Georgakopoulos, A. and **Kalaitzidis, S.**, 2014. Petrographic composition and palaeoenvironment of the Amynteo lignite deposit, northern Greece. *Energy Sources Part A: Recovery, Utilization, and Environmental Effects*, 36/24: 2715-2724, DOI: 10.1080/15567036.2011.574199.
- Pross, J., Koutsodendris, A., Christanis, K., Fischer, T., Fletcher, W.J., Hardiman, M., **Kalaitzidis, S.**, Knipping, M., Kotthoff, U., Milner, A.M., Müller, U.C., Schmiedl, G., Siavalas, G., Tzedakis, P.C., Wulf, S., 2015. The 1.3-Ma-long terrestrial climate archive of Tenaghi Philippon, northeastern Greece: Evolution, exploration, and perspectives for future research. *Newsletters on Stratigraphy*, 48/3: 253-276.
- Avramidis, P., **Kalaitzidis, S.**, Iliopoulos, G., Papadopoulou, P., Nikolaou, K., Papazisimou, S., Christanis, K. and Wijngaarden, G.J. van., 2015. The so called ‘Herodotus Springs’ at Keri Lake in Zakynthos Island western Greece: a sedimentological and palaeoecological approach. *Quat. Int.*, 439: 37-51.
- Pickel, W., Kus, J., Flores, D., Kalaitzidis, S., Christanis, K., Cardott, B., Misz-Kennan, M., Rodrigues, S., Hentschel, A., Hamor-Vido, M., Crosdale, P., Wagner, N., 2017. Classification of Liptinite - ICCP System 1994. *Int. J. Coal Geol.*, 169: 40-61.
- Kus, J., Araujo, C.V., Borrego, A.G., Flore, D., Mendonça Filho, J.G., Hackley, P.C., Hámor-Vidó, M., **Kalaitzidis, S.**, Kommeren, C.J., Kwiecińska, B., Mastalerz, M., Menezes, T.R., Misz-Kennan, M., Nowak, G., Petersen, H.I., Rallakis, D., Suarez-Ruiz, I., Sýkorová, I., Životić, D.,(2017). Identification of alginite and bituminite in rocks other than coals: results of Round Robin Exercises of the Identification of Dispersed Organic Matter Working Group of the ICCP. *Int. J. Coal Geol.*, 178: 26-38.
- Suárez-Ruiz, I., Valentim, B., Borrego, A.G., Bouzinos, A., Flores, D., **Kalaitzidis, S.**, Malinconico, M.L., Marques, M., Misz-Kenan, M., Predeanu, G., Montes, J.R., Rodrigues, S., Siavalas, G., Wagner, N., 2017. Development of a petrographic classification of fly ash components from coal combustion and co-combustion. (An ICCP Classification System, Fly Ash Working Group – Commission III). *Int. J. Coal Geol.*, 183: 188-203.

- Mirza, T.A., **Kalaitzidis, S.P.**, Sarkhel, H.M., Saman, Gh.R., Petrou, X., 2017. Geochemistry and genesis of sulfide ore deposits in Sharosh village, Qandil Series Kurdistan Region-NE Iraq. *Arabian Journal of Geosciences*, 10: 428 (DOI 10.1007/s12517-017-3210-y).
- Wulf, S, Hardiman, M, Staff, R.A, Koutsodendris, A, Appelt, O, Manning, C.J., Ottolini, L, Schmitt, A., Smith, V.C., Tomlinson, E.L., Blockley, S.P.E., Lowe, J.J., Knipping, M., Kotthoff, U., Milner, A.M., Müller, U.C., Christanis, K., **Kalaitzidis, S.**, Tzedakis, C., Schmiedl, G., Pross, J. The MIS 1 – MIS 5 cryptotephra record of Tenaghi Philippon, Greece: independent dating of a high-resolution climate archive in the Eastern Mediterranean region. *Quat. Sci. Rev.*, 186: 236-262.
- Ogala, J.A., **Kalaitzidis, S.**, Christanis, K, Omo-Irabor, O.O., Akinmosin, A., Yusuf, C.U., Pasadakis, N., Constantinopoulos, M., Papaefthymiou, H., 2018. Geochemical and organic petrological study of bituminous sediments from Dahomey Basin, SW Nigeria. *J. Mar. Petrol. Geol.*, (published online, <https://doi.org/10.1016/j.marpetgeo.2018.10.033>).