

Partner P4: UP - Faculty of Sciences of Porto University



The Faculty of Sciences (FCUP) is a school of the University of Porto (UP), a University that is characterized by its long history, and has some of the most productive and internationally renowned Portuguese R&D centers responsible for over 20% of the Portuguese articles indexed each year in the ISI Web of Science.

The UP research team is being responsible for nearly one hundred years of research in coal geology, and applied coal and coal combustion products characterization, and also by university level education. Its actual staff composition includes university professors that always include academic and practical education in its research activities: new themes to its curricula; dissemination activities (workshops, seminars, etc); and, advanced formation opportunities to undergraduate, graduate, masters, and students.

The UP team also incorporates highly motivated and specialized researchers in the field of fly ash and bottom ash, and transformation of mineral matter from coal combustion. They have skills in the utilization of advanced characterization techniques, e.g. Raman spectroscopy, Magnetic Susceptibility, Spectrophotometry, High Resolution SEM/EDS, QEMScan, and also in standardized sampling, sample separation techniques, and geochemical analysis of a wide range of geologic materials.

Additionally, due to its experience in research and “problem posing-problem solving” issues related to coal ashes, and its long date participation in the fly ash classification activities of the International Committee for Coal and Organic Petrology, the UP team complement this proposal consortium with its strategic vision and excellent skill of its researchers by proposing an out-of-box opportunity to short-circuiting the geosphere materials cycle.



The main contributions of P4 – UP – Faculty of Sciences of Porto University in this project will be:

- i) complex characterization of raw materials;*
- ii) dissemination of results by organising a workshop, and preparing scientific articles.*



Dr. Bruno VALENTIM

P4: UP - University of Porto, The Faculty of Sciences, Rua do Campo Alegre, S/N, 4169-007 Porto

Tel. +351 220402090, Fax +351 220402099; bvalent@fc.up.pt