



Predictive models for strategic metal rich, granite-related ore systems based on mineral and geochemical fingerprints and footprints



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DISSEMINATION SEMINAR

**Anfiteatro 1 - Colégio Luís António Verney, University of Évora,
HERCULES Laboratory**

Programme

Day 1 (June 7, 2024)

9:15: Registration

9:45: Opening Session. Welcoming words to participants (*P. Moita; A. Mateus*).

10:00: Structures and tectonic evolution of the Góis-Panasqueira-Segura strip (*Í. Dias da Silva, I. Martins, A. Mateus*)

10:30: Petrographic analysis of cordierite(?) - and andalusite-bearing metasediments of the Beiras Group, Castanheira de Pera region, Central Portugal (*E. Gomes, F.C. Lopes, Í. Dias da Silva, M.M. Vinha, H. Rodrigues, A. Pereira*)

Coffee Break (11:00 – 11:30)

11:30: Geochemistry and geochronology of granitoid rocks forming the W-SW border of the Fundão pluton. (*A.R. Andrade, Í. Dias da Silva, A. Mateus, P. Montero, A. Cambeses*)

12:00: Granite facies enveloping the Mata da Rainha ore-forming system; insights into their composition and relation to the mineralizing events. (*B. Pereira, A. Mateus, Í. Dias da Silva*)

12:30: Some details on the geochronology, geochemistry and mineralogy of the Penamacor-Monsanto granite system. (*I. Ribeiro da Costa, A. Mateus, I. Martins, Í. Dias da Silva; C. Tassinari, M.H. Hollanda, M. Cathelineau, M.-C. Boiron*)

Lunch Break (13:00 – 14:00)

14:00: Metasomatism and F, Li, Cs enrichment in Beiras schists around the Argemela hyperdifferentiated intrusion (CIZ, Portugal) (*M. Cathelineau, M.-C. Boiron, G. Yeo, Ch. Peiffert, I. Martins, Í. Dias da Silva, A. Mateus*)

14:30: Trace elements in magmatic and hydrothermal micas as geochemical tracers. (*M.-C. Boiron, M. Cathelineau, C. Peiffert, I. Martins, I. Dias Silva, A. Mateus*)

15:00: Decoding Sn-W mineralisations and tourmalinization events through key alluvial heavy minerals, in Segura: a stage of target generation. (*R. Salgueiro, N. Grácio, M. Gaspar*)

Coffee Break (15:30 – 16:00)

16:00: LNEG contribution to the Alentejo region Integrated Mineral Exploration Data Management. (*J.X. Matos*)

16:30 – 18:00: Analytical infrastructure of HERCULES Laboratory: geomaterials and prospecting (with visit) (*J. Mirão*)

Day 2 (June 8, 2024)

9:30: What's hidden behind cassiterite geochemistry? A multiscale deciphering approach from ore-forming systems to mineral exploration (*L.M. Gaspar, P. Moita, Z. Chang, R. Salgueiro, N. Grácio, S. Huang, A. Cravinho, M. Costa, M. Beltrane, P. Barrulas, P. Reis, I. Martins, A. Mateus, M.-C. Boiron, M. Cathelineau*)

10:00: Metallogenesis of the Vale Pião W–Sn–(Au) deposit (Góis, Portugal): constraints from geochemistry, mineralogy and fluid inclusions (*L.M. Gaspar, I. Martins, F. Martins, A. Guedes, A. Yakovenko; M. Rodrigues, D. Lobarinhas, C. Rosa*)

10:30: Modelling the ore potential of peraluminous granite-related systems; implications to mineral exploration strategies. (*A. Mateus, I. Martins, L.M. Gaspar, I. Ribeiro da Costa, M. Cathelineau, M.-C. Boiron*)

Coffee Break (11:00 – 11:30)

11:30: From harmonized multidisciplinary data to prospectivity maps in the Góis-Panasqueira-Argemela-Segura strip. (*A. Mateus, Í. Dias da Silva; I. Martins, L.M. Gaspar, M. Cathelineau, M.-C. Boiron, I. Ribeiro da Costa, R. Salgueiro*)

12:00: Closing session. (*A. Mateus*)

Lunch Break (12:00 – 13:30)

14:00 (Closed Session): Steering Group Meeting (preparation of final report)