Athy is a 4 days intensive shortcourse in Hydrometallurgy gathering renewed international experts from Europe, Canada and South Africa both from academia and industry. The first days are dedicated to in depth lectures on the various unit operations of hydrometallurgy (Leaching, Solvent Extraction, Electrochemistry, Precipitation, Biometallurgy, Process Mineralogy) giving the participants a tool box to understand and develop hydrometallurgical processes. The following days are dedicated to specific case studies (Hydrometallurgy of Zn, Cu, Co-Ni, PGEs from Mining to Recycling) illustrated by industrial partners.

| Day 1 | Fundamentals of leaching, Thermodynamics of hydrometallurgical systems and chemistry of solutions. Biometallurgy. | Dr. Edouard Asselin
University of British Columbia (Canada) |
|------|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
|      |                                                                                                                                | Dr. Anne-Gwénaëlle Guezzennec
BRGM (France) |
| Day 2 | Solvant Extraction.                                                                                                               | Dr. Hans-Jörg Bart
TU Kaiserlautern (Germany) |
|      |  Electrochemistry.                                                                                                                | Dr. Eric Meux
University of Lorraine (France) |
|      |  Precipitation and crystallization, application to gypsum, Fe and As control.                                                      | Dr George Demopoulos
McGill University (Canada) |
| Day 3 | Hydometallurgy of Zn.                                                                                                             | Dr. Philippe Henry
Hydrometal (Belgium) |
|      |  Modelling and simulation.                                                                                                        | Dr. Stéphane Brochot
Caspeo (France) |
|      |  Hydrometallurgical process development for Ni and Co.                                                                            | Dr. Yves Le Quesne
Eramet (France) |
University of Cape Town (RSA) |
|      |                                                                                                                                | Dr. Eric Pirard
University of Liège |

Registration: David.Bastin@ulg.ac.be
Registration fees: 1200 € (Course material, coffee break, lunches and a diner).
Reduced fees for PhD students