

ATHY, a shortcourse in Hydrometallurgy

**Introduction:**

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.

**Targeted audience:**

Researchers and Engineers from academia and industry.

**When:** From 11/12/2017 to 14/12/2017

**Where:** Liège, Belgium.

**Registration:** contact David Bastin at [david.bastin@ulg.ac.be](mailto:david.bastin@ulg.ac.be)

**Costs:** 1200 euros for the 4 days (Including course material, coffee breaks, lunches and 1 diner)

**EIT KIC Raw Materials partners:**

Eramet, BRGM, NTUA, Hydrométal, Atlantic Copper, U Liège



Day 1 - 11/12/2017	
9:00 to 10:30	<i>Fundamentals of Leaching</i>
	<i>Dr. Edouard Asselin (U of British Columbia)</i>
	Coffee Break
11:00 to 12:30	<i>Thermodynamics of hydrometallurgical systems</i>
	<i>Dr. Edouard Asselin (U of British Columbia)</i>
	Lunch
13:30 to 15:00	<i>Biometallurgy</i>
	<i>Dr. Anne-Gwénaëlle Guezennec (BRGM)</i>
	Coffee Break
15:30 to 17:00	<i>Biometallurgy</i>
	<i>Dr. Anne-Gwénaëlle Guezennec (BRGM)</i>
	17:30 <i>Beer Tasting</i>
Day 2 - 12/12/2017	
9:00 to 10:30	<i>Solvent Extraction</i>
	<i>Dr. Hans-Jörg Bart (TU Kaiserslautern)</i>
	Coffee Break
11:00 to 12:30	<i>Electrochemistry</i>
	<i>Dr. Eric Meux (U de Lorraine)</i>
	Lunch
13:30 to 15:00	<i>Precipitation and crystallization</i>
	<i>Dr. George Demopoulos (U McGill)</i>
	Coffee Break
15:30 to 17:00	<i>Precipitation of gypsum, As and Fe control</i>
	<i>Dr. George Demopoulos (U McGill)</i>
	19:00 <i>Diner</i>
Day 3 - 13/12/2017	
9:00 to 11:00	<i>Hydrometallurgy of Zn</i>
	<i>Dr. Philippe Henry (Hydrométal)</i>
	Coffee Break
11:30 to 13:30	<i>Modelling and Simulation</i>
	<i>Dr. Stéphane Brochot (Caspeo)</i>
	Lunch
14:30 to 16:30	<i>Hydrometallurgical process development for Ni and Co</i>
	<i>Dr. Yves Le Quesne (Eramet)</i>
	Coffee Break
Day 4 - 14/12/2017	
9:00 to 10:30	<i>Hydrometallurgy of Platinum Group Elements</i>
	<i>Dr. Jochen Petersen (U Cape Town)</i>
	Coffee Break
11:00 to 12:30	<i>Ammoniacal metallurgy of Cu</i>
	<i>Dr. Jochen Petersen (U Cape Town)</i>
	Lunch
13:30 to 15:30	<i>Process Mineralogy</i>
	<i>Dr. Eric Pirard (U Liège)</i>
	Coffee Break
16:00 to 17:00	<i>Lab Tour at GeMMe U Liège</i>