

Third International Symposium on
Iron Control in Hydrometallurgy

Short Course and Industrial Tour

Montreal, Canada
September 30 – October 6, 2006

Hydrometallurgy Section
Metallurgical Society of CIM



Short Course

The short course is offered immediately prior to the Iron Control in Hydrometallurgy Symposium, to complement the industrially focussed program of the Symposium itself. It is structured to provide an in-depth review of the fundamentals of iron control and is complemented by case histories of industrial applications. The lecturers are experts with international recognition in their fields.

Costs: CIM member \$700; Student \$350
(includes course notes, lunches and refreshments)

Saturday September 30, 2006: *Fundamentals*

- **Solution Chemistry of Iron**
Dave Muir, CSIRO, Australia
- **Liquid - Solid Separations**
Kurt Wilson, Dorr-Oliver Eimco, USA
- **Characterization of Iron Residues**
Bill Richmond, Curtin University, Australia
- **Impurity Behaviour during Iron Precipitation**
Bryn Harris, McGill University, Canada
- **Design, Construction and Closeout of Iron Residue Ponds**
Ken Bocking, Golder Associates, Canada
- **Iron Stabilization by Pyrometallurgical Treatment**
Norbert Piret, Piret & Stolberg Partners, Germany

Sunday October 1, 2006: *Case Histories*

- **Control of Iron in the Processing of Nickel Sulphides and Laterites**
Eberhard Krause, Inco, Canada
- **Alumina and Red Muds**
Jeanette See, Alcan, Canada
- **Iron Control in Titanium Processing**
Dimitri Filippou, Rio Tinto Iron & Titanium, Canada
- **Iron Control in Zinc Processing**
Gary Montieth, CEZinc, Canada

Technical Tour

An interesting two-day technical tour to three industrial plants will be held immediately after the Symposium. **Rio Tinto Iron & Titanium** is a major producer of slag for the manufacture of titanium dioxide; it employs reductive smelting of ilmenite to generate a Ti-rich slag and to reject the associated iron as a marketable metallic product. **Ferrinov** produces two types of anti-corrosion, heat-resistant iron oxide pigments using an innovative hydrometallurgical process to decontaminate the dusts generated by electric arc furnaces from steel mills. **CEZinc** is one of the largest producers of zinc metal in the world; it utilizes the conventional roast-leach-electrowinning process and rejects iron as jarosite, which is stabilized using the Jarofix process.

Cost: All participants \$350 (includes transportation, all meals and one-night hotel accommodation)

Thursday, October 5, 2006

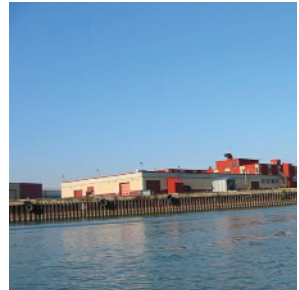
- Depart by bus from the Centre Sheraton Hotel in Montreal for Sorel-Tracy: Scenic views during the ferry boat crossing of the St. Lawrence River
- Visit Rio Tinto Iron & Titanium plant
- Lunch in Sorel-Tracy
- Visit Ferrinov plant
- Depart for Valleyfield for dinner and overnight stay

Friday, October 6, 2006

- Visit CEZinc plant
- Lunch in Valleyfield
- Return to Centre Sheraton Hotel in Montreal with a stop at Montreal's Trudeau International Airport.



Rio Tinto Iron & Titanium



Ferrinov



CEZinc

Further Details

For additional information, please contact:

Short Course

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Technical Tour

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