

# Technology - Advancing Industrial Ecology

## Industrial Services

Development of value-added products by making use of industrial waste

### Project Management

- Industrial waste characterization
- Assistance and consulting for businesses involved in wastes reclamation projects
- Exploration of the potential uses of residues
- Development of new processes and/or technologies for reuse
- Processing and/or treatment of by-products
- Adaptation of an industrial process for residue re-input
- Test bench development
- Support for regulatory compliance
- Technology and regulatory surveillance

### Studies

- Technological testing
- Environmental impact assessment

### Industrial ecology education and awareness

In association with the Centre de recherche en environnement UQAM/Sorel-Tracy (CREUST), our Centre has equipment for crystallographic, chemical, morphological, physicochemical, granulometric and thermodynamic characterization: laser granulometer, diffractometer, scanning electron microscope with an image-processing system, ultracycrometer, DTA-TGA device, Fourier infrared spectroscope, supercritical fluid extraction system and atomic absorption analytical apparatus.

Two new pieces of equipment, an acoustic particle size analyzer (Matec APS-100) and a magnetic suspension balance with a thermogravimetric module (Rubotherm), complete our list of equipment and enable us to now offer nanogrulometry services.

Our research team is capable of supervising projects, from characterization to byproduct marketing.

## Example of Applied Research Projects

- Assessment of the technical performance, environmental characteristics and industrial hygiene evaluation of the Sorelmix abrasive used for sand blasting
- Testing of mine waste rock for water filtration
- Development of inorganic waste characterization techniques for environmental impact assessments
- Upgrading of quarry residues
- Assessment of industrial byproduct synergy potential in Montérégie



(Photo : Philippe Manning)

## Industrial Waste Reclamation Projects

Associated with Sorel-Tracy CEGEP, the Centre de transfert technologique en écologie industrielle has been working since 1999 on finding uses for various forms of industrial waste and aims to develop a variety of uses. The CTTEI's role in the search for practical solutions to recycle and reuse residues can be synopsised in the following diagram:



## Training and Information Activities

- Industrial ecology awareness
- Attestation of Collegial Studies in Waste Management
- Special courses on R&D tax credits
- WHIMIS training

In association with the Continuing Education Department of Sorel-Tracy CEGEP



**CENTRE DE TRANSFERT TECHNOLOGIQUE  
EN ÉCOLOGIE INDUSTRIELLE**

### Centre J.-Édouard-Simard

3000 boulevard Tracy, Sorel-Tracy, Québec J3R 5B9

Telephone: (450) 742-6651 ext. 5301

Fax: (450) 730-0867

Contact: Hélène Gignac, Executive Director

Email: [cttei@cegep-sorel-tracy.qc.ca](mailto:cttei@cegep-sorel-tracy.qc.ca)

Website: [www.cegep-sorel-tracy.qc.ca/sr\\_cttei/index.htm](http://www.cegep-sorel-tracy.qc.ca/sr_cttei/index.htm)

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