



The MEND Monitor

Acid Drainage Technology Initiative Coal Mining Sector (ADTI-CMS)

ADTI began in 1995 bringing together technical experts from state and federal government, academia, industry, and consulting to identify, evaluate and develop practical and cost effective solutions to acid drainage and related water-quality problems from mining. Members cooperate to promote communications and technology enhancement in the field of prediction and treatment of acidic drainage. In 1999, ADTI was reorganized into two sectors, a Coal Mining Sector (CMS) and a Metal Mining Sector (see *MEND Monitor*, Sept.2004), to focus efforts on the unique aspects of these two mining areas.

Initial projects in CMS were state-of-the-art summaries of acid mine drainage prediction and remediation technology, and resulted in two highly regarded publications: *Handbook of Technologies for Avoidance and Remediation of Acid Mine Drainage* (1998) and *Prediction of Water Quality at Surface Coal Mines* (2000). These reports are at: <http://www.nrcce.wvu.edu/programs/adt/>

In November 2004, the CMS reorganized to focus on new priorities and established technical teams to address these priorities. The priorities are in the areas of underground mine drainage, water quality prediction and treatment, passive treatment technology, and coal combustion by-products. The CMS is revitalizing its technology transfer and outreach activities, and the expansion and enhancement of a web site is a high priority. For more information please contact Stephen Parsons, ADTI-CMS Chair, at sparsons@osmre.gov.

Upcoming Events

12th Annual BC/MEND ML/ARD Workshop

November 30 - December 01, 2005. Vancouver, British Columbia.

7th ICARD (International Conference on Acid Rock Drainage)

In conjunction with the SME Annual Meeting. March 27-30, 2006. St. Louis, Missouri, USA.

Information

11th Annual British Columbia Metal Leaching/Acid Rock Drainage Workshop



The workshop was held December 1 and 2, 2004 in Vancouver. The theme was *Performance of Dry Covers*. Workshop Proceedings are available on CD (\$50 Cdn) and can be ordered at: books@bitech.ca or www.bitech.ca.

New! MEND Publications

MEND Report 10.1 – Review of Water Quality Issues in Neutral pH Drainage: Examples and Emerging Priorities for the Mining Industry in Canada

A review of selected Canadian mining operations was completed to determine priority chemical elements of interest associated with leaching under non-acidic conditions. Key challenges around water quality, mine waste management and potential terrestrial effects and the associated cost implications were summarized, with a focus in arsenic, molybdenum and selenium. The report is available in paper copy (\$35 Cdn, plus taxes).

Upcoming MEND Projects – In the North

Cold Temperature Effects on Geochemical Weathering:

Effects of cold temperatures on mine wastes are examined, along with opportunities to mitigate mine drainage issues. Relevant case histories will be reviewed and evaluated to better understand geochemical mechanisms. Information gaps will be discussed, and recommendations made for future work. *Contractor: SRK Consulting/Mehling Environmental Management Inc.*

Northern Soil Covers:

Study on cold region phenomena that could impact on the performance of soil covers. Information will be reviewed and priorities identified for research to further develop soil cover design and construction methods suitable for cold regions. *Contractor: SRK Consulting*

To obtain information on MEND or its publications, please visit our web site at: mend.nrcan.gc.ca or send an e-mail to: mend_nedem@nrcan.gc.ca