



American Chemical Society

Call for Papers

Mining Waste: Geochemistry, Treatment, and Beneficial Reuse

At the 240th ACS National Meeting & Exposition

Boston, Massachusetts

August 22-26, 2010

Abstract Deadline: **TBD**

The production of mine impacted water and metal-contaminated soil is a ubiquitous problem all over the world. The uncontrolled release of mining waste often extends beyond the discharging mine and into surrounding watersheds: it is estimated that mine impacted water impacts 15,000-24,000 km of streams in the United States alone. While mining waste presents a challenge for treatment, it also offers an opportunity for resource recovery. The restoration of affected waters and the recovery of valuable resources will rely on the development of innovative approaches. The purpose of this session is to showcase the latest developments in mining waste geochemistry, treatment, and beneficial reuse.

Topics that may be covered in this session include, but are not limited to, the following:

- Treatment of mine influenced water
- Biochemical reactors & wetlands
- Innovative substrates for remediation
- New approaches in active treatment
- Sustainable alkalinity sources
- Fate & transport in the environment
- Geochemical modeling
- Biochemistry & availability of metals
- Phytoremediation of metal-laden soils
- Resource recovery & beneficial reuse
- Soil management & land reclamation
- Carbon sequestration on degraded lands
- Energy production from mine waste
- Coal-combustion waste treatment
- Coalbed methane production
- Industrial innovations
- Superfund site treatment
- Brownfield revitalization

Please submit your abstracts using (<http://abstracts.acs.org>). Any other inquiries should be directed to:

Rachel Brennan, Ph.D.
Department of Civil and Environmental Engineering
The Pennsylvania State University
231-K Sackett Building
University Park, PA 16802
office: 814-865-9428
fax: 814-863-7304
email: rbrennan@enr.psu.edu

Souhail Al-Abed, Ph.D.
U.S. EPA
Office of Research and Development
National Risk Management Research Laboratory
26 W. Martin Luther King Drive
Cincinnati, OH 45268
Tel.: 513-569-7849
Fax: 513-569-7879
e-mail: al-abad.souhail@epa.gov