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Register Today

Ensuring the Sustainability of Critical Materials and
Alternatives: Addressing the Fundamental Challenges
in Separation Science and Engineering

WHEN:

Tuesday,
August 21, 2012
@ the ACS National Meeting

WHERE:

Sheraton Philadelphia
City Center
Philadelphia, PA

WHO should attend:

Those who work in separation science and engineering, analytical chemistry and related areas of sustainable chemistry, materials and engineering including renewable energy generation/storage, catalysis, hydrometallurgy resource recovery and water purification will find the symposium very useful. Attendees will learn about new opportunities and exciting scientific challenges associated with the sustainable extraction, purification and utilization of critical materials and earth-abundant alternatives.

PROGRAM

8:00 am	Setting the Stage for Sustainability, <i>C.T. Hunt</i>
8:10 am	Separation Science for a Sustainable Future, <i>T. Pietrass</i>
8:20 am	Developments in Alternatives to Critical Materials for Energy Applications, <i>M. Johnson</i>
9:00 am	Finding Alternatives to Critical Materials in Photovoltaics and Catalysis Part I: Academic Perspective, <i>H.A. Atwater</i>
9:20 am	Finding Alternatives to Critical Materials in Photovoltaics and Catalysis Part II: Industrial Perspective, <i>J.C. Stevens</i>
9:40 am	Break
10:00 am	Meeting the Global Rare Earth Challenge: Molycorp from Mine-to-Magnets, <i>A. Davis</i>
10:30 am	Extractions of Dissolved Organics and Metals, <i>P.L. Edmiston</i>
11:00 am	Findings and Opportunities from the 2012 NSF SusChEM Workshop, <i>S.L. Scott</i>
11:30 am	Concluding Remarks, <i>C.T. Hunt</i>
12:00 pm	Lunch Break
2:00 pm	Sustainable Supply of Critical Materials: Addressing the Fundamental Challenges in Separation Science & Engineering, <i>M.S. Diallo</i>
2:10 pm	Challenges for Extracting and Purifying Critical Materials, <i>B.A. Moyer</i>
2:50 pm	Sustainable Extraction of Critical Metals from Saline Water and Industrial Wastewater: Challenges & Opportunities, <i>M.S. Diallo</i>
3:10 pm	Ionic Liquids and Strategic Metals: Challenges & Opportunities, <i>R.D. Rogers</i>
3:30 pm	Break
3:50 pm	Moderated Panel: Rethinking the Role of Separation Science & Engineering—Reduce, Recycle, Repurpose! <i>C.T. Hunt, M. Johnson, B.A. Moyer, and R.D. Rogers</i>
4:50 pm	Concluding Remarks, <i>L. He and R. Wesson</i>



Register Today at criticalmaterials.aidhe.org