



Symposium on critical resources

May 11th 2012

Program

- 13:00 **Will Technology Enable or Constrain Sustainability?**
Symposium by Professor Thomas Graedel, Yale University
- See description of Professor Thomas Graedel and this symposium on the next page.
- 14:00 Coffee & debate
- 14:30 **Thoughts on the Danish strategy for resource efficiency in waste management**
Presentation by Ms Dorte Hermansen, head of Waste & Soil Department, Danish Environmental Protection Agency
- 15:00 **Advanced recovery of metals from Shredder Residue – and some thoughts on REE recycling**
Presentation by Mr. Jørgen Overgaard, Environmental Consultant, HJ Hansen Recycling Ltd.
- 15:30 More coffee & debate
- 16:00 End of symposium

Niels Bohrs alle 1
Auditorium A2
5230 Odense M

Please announce your participation to:
Ms Christina Buch Sahner at cbs@kbm.sdu.dk before May 9th 12:00

Symposium on future technology and critical resources

University of Southern Denmark, Faculty of Engineering
Niels Bohrs Alle 1, 5230 Odense M
Auditorium 2
May 11th, 2012, 13:00 – 14:00

SDU, Faculty of Engineering has the honor of receiving Professor Thomas Graedel, Yale University, USA on May 11th this year. Thomas Graedel has more than any been the founder of the concept of 'Industrial Ecology' and is today one of the World's leading researchers within the development of global supply and demand of resources and the identification of potential future resource supply constraints. His focus is on metals and Rare Earth elements.

Come and learn which potential resource constraints and substitution challenges our industry may face in the future. The symposium is open to all, but please announce your participation on the mail-address below.

Symposium title:

Will Technology Enable or Constrain Sustainability?

by Thomas E. Graedel
Yale University

Abstract

Much of our modern life is tied to increasingly intricate technology, embodying ever larger numbers of materials to achieve greater and greater performance. Is this approach wise, and is it sustainable over the long term? This presentation will discuss common examples of modern technology, particularly their material basis, and the potential for present material use patterns to be transformed. The basis for the discussion will be the material flow and criticality of metals studies conducted at Yale over the past decade, which have demonstrated the challenges faced in the coming decades if we are to continue to provide the wide variety of materials now employed by product designers.



Thomas Graedel is Professor of Industrial Ecology in the School of Forestry and Environmental Studies, Yale University. His research is centered on developing and enhancing industrial ecology, the organizing framework for the study of the interactions of the modern technological society with the environment. His textbook, *Industrial Ecology*, coauthored with B. R. Allenby, was the first book in the field and is now in its third edition. His current interests include studies of the flows of materials within the industrial ecosystem, and of evaluating the criticality of metals. He was elected to the U.S. National Academy of Engineering in 2002 for "outstanding contributions to the theory and practice of industrial ecology."

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