



# eBULLETIN

Number 5 - 23 June 2004



ANAEROBIC DIGESTION 2004

CONFERENCE & EXHIBITION 29 AUGUST - 2 SEPTEMBRE 2004 MONTREAL

## Anaerobic Bioconversion for Sustainability

*Anaerobic digestion helps to reduce the impact of waste on the environment, producing cleaner effluents and increasing the production of renewable energy, leading to lower GHG emissions. Anaerobic technologies help to reduce the costs of industry when dealing with disposal costs and related environmental taxes.*

*The 10th World Congress on Anaerobic Digestion (AD10) – will provide an excellent environment for promoting the latest ideas and effective practices in anaerobic digestion, and the opportunity for reviewing quickly the most recent developments.*

**PLENARY CONFERENCE**  
— Monday 30 August 2004, 9:30

### ENERGY, ECONOMY AND THE ENVIRONMENT: LONG-TERM TRENDS AND PROSPECTS

Vaclav SMIL, Distinguished Professor at the University of Manitoba (Winnipeg, Canada), author of over 280 papers and 22 books on environmental, energy, food, population, economic and public policy studies, consultant to the American Academy of Arts and Sciences, the International Research and Development Center, the Japan Science Foundation, the World Bank, the World Resources Institute, and to several other US agencies or academies.



“High oil prices, tightening natural gas supplies, rapidly rising energy demand in Asia in general and in China in particular, debates about the imminent peak of the global crude oil production, worries about the unprecedented global warming, apparent lack of any obvious large-scale non-fossil energy alternatives and the refusal to reintroduce nuclear electricity generation — all of these new realities make it clear that the world’s energy supply is at critical crossroads.”

V. Smil will address all of these concerns in a brief, but systematic, manner, provide long-term perspectives on the key global energy and environmental trends, assess the place of renewable energies in the current and future supply and outline some surprisingly effective opportunities to deal with these challenges.

### WORKSHOP ON BIOREACTOR LANDFILL vs. INDUSTRIAL ANAEROBIC DIGESTER (AD) FOR MUNICIPAL SOLID WASTE (MSW)

— Wednesday 1 September 2004, 14:15 - 17:15

Panel members:

**Bruce E. Holbein (Chair):** current practice in North America (NA) vs. European Union (EU); comparative scales and economics AD vs. landfill.

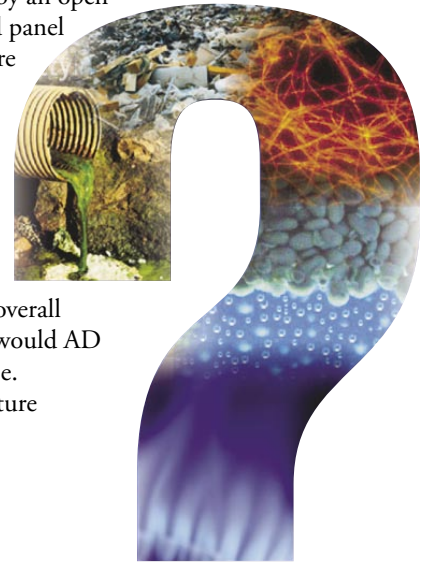
**Morton Barlaz:** technical performance of bioreactor landfill.

**TBA Landfill Industry Representative:** Landfill Industry perspective, economic, sustainability, stakeholder aspects of bioreactor landfill.

**Luc DeBaere:** technical and economic performance of AD – EU perspective primarily with comparison to NA.

**Murray Haight:** environmental aspects landfill vs. AD; LCA basis, GHG emissions ...

Presentations by the panel members will focus on certain aspects and introduce other relevant aspects. Presentations will be followed by an open forum (moderated debate) among audience and panel members, to address the following questions. Are bioreactor landfills as ‘contained’ as estimated / projected? What is overall degree of digestion for waste with landfill or AD? What are fugitive emission rates for volatiles over life of landfill (CH<sub>4</sub>, other)? What are the fates of final solid residues; landfill and AD? Why are landfills considered economic only at large scale or large capacity / long life? What are the overall energy yields of landfill vs. in-vessel AD? How would AD look at similar scale to landfill (e.g.1000 tpd), i.e. economics? What about insuring contingent future liabilities of landfills; industry self-insuring?



### CONFERENCE REGISTRATION

Registration fees,  
**BEFORE July 12, 2004:** Cdn\$850  
Students: Cdn\$500  
**AFTER July 12, 2004:** Cdn\$950  
Students: Cdn\$575

### COMMERCIAL EXHIBITION

Exhibiting at AD10 represents excellent value for companies that supply anaerobic treatment facilities, scientific and technical equipment, services, and government institutions. Only **FOUR** booths left ... Don't wait to place your reservation for a booth ...

Please contact:

Jean-Pierre Dubois

Telephone: (514) 285-1922

Fax (514) 285-9040

E-mail: [dubois.opc@affaires.com](mailto:dubois.opc@affaires.com)



**EARLY  
REGISTRATION  
CLOSES ON  
12 JULY 2004**



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