

Sustainable Building and Concrete

a seminar organized jointly by

the EcoSmart Foundation and Batimat

**Monday and Tuesday April 21-22 2008,
Building Futures Gulf
Structure & Envelope Forum in the Structure Gulf exhibition Hall 7
Abu Dhabi National Exhibition Centre
Abu Dhabi, UAE**

Background

Green buildings start with structures that are sustainable from a durability, resource use and environmental impact perspective. Developers, architects, engineers and contractors are facing the challenge to find ways to achieve the least environmental impact with little or no adverse effect on construction schedule and costs while keeping or improving the quality and performance of building materials such as concrete.

The EcoSmart Foundation is a not-for-profit Canadian corporation specializing in making innovative technologies for sustainability available to the construction sector. In the UAE, its emphasis is on the use of EcoSmart Concrete, a material that optimizes the replacement of Portland cement with Supplementary Cementing Materials (SCMs), such as fly and ground blast furnace slag.

This technique, proven in some of the world's most difficult environments, can help tackle major construction issues facing companies in the Emirates. It is demonstrably more durable, with an ability to resist salt corrosion in extreme marine environments. It has the potential to be less expensive than traditional concrete and is easier to pump and work, and significantly reduces the heat of hydration. Originally developed by CANMET, a world-renowned Canadian government laboratory, it improves concrete performance, particularly in harsh conditions. And because it reduces cement usage, a major producer of greenhouse gases, EcoSmart Concrete offers distinct environmental advantages.

Over the last year, the EcoSmart Foundation undertook a series of activities that demonstrated the benefits of EcoSmart concrete in the local context. These include: material testing by private and official organizations both locally and internationally as well as field applications on selected demonstration projects.

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Outline of Seminar

In the context of construction in the demanding conditions of the UAE and the recent green building directives given by the Authorities, this free seminar at Building Future Gulf will provide an overview of the results of the EcoSmart initiative in the UAE; tests on, designs for and performance of EcoSmart Concrete; materials and computer modeling for concrete durability; demonstration projects and other applications; recent developments in supply; and new advancements in the concept of sustainable concrete.

The seminar will also cover other green building technologies in special sessions presented in collaboration with the Government of Canada.

Benefits to attendees

Participants will learn from experienced industry professionals about: the benefits of green building technology in a time when climate change and sustainability is becoming a major issue nationally and internationally; lab and field performance of EcoSmart concrete; durability and related material selection in major UAE construction projects; practical and economical aspects of construction and supply; and the most recent concepts of sustainable concrete.

Confirmed speakers at this seminar include:

- **James Aldred**, GHD Global, Manager of the Independent Verification and Testing for the Burj Dubai Tower
- **Khaled Awad**, Director, Property Development, Masdar
- **Denis Beaupré**, Technical Manager for Unibeton Ready-Mix, Abu Dhabi and formerly professor of Civil Engineering at Laval University, Quebec, Canada
- **Michel de Spot**, President of EcoSmart Foundation Inc., and a LEED Accredited Professional, Vancouver, Canada
- **Ali Elian**, Head of Engineering Materials Laboratory Section, Dubai Central Laboratory
- **Jeff Hood**, VP Business Development, Icynene
- **Ken Klassen**, MBA, CMHC International Training Team
- **Michael Richardson**, General Manager, Ras Al Khaimah Cement

The seminar is part of the “Building Future Gulf” Trade Show in Abu Dhabi and is open to all show attendees.



Seminar Agenda

EcoSmart Sustainable Building & Concrete Seminars

In the “Structure & Envelope” Forum, Exhibition Hall 7
Building Futures Gulf at the Abu Dhabi National Exhibition Centre

Monday, April 21

Theme		Time	Speaker name & company	Topic
Concrete	1	9:45-10:10	Michel de Spot, the EcoSmart Foundation	EcoSmart concrete – overview and case studies
	2	10:10-10:35	Denis Beaupré, Unibeton	EcoSmart concrete: tests & demo projects in the UAE
	Q&A	10:35-10:45		Q&A
Green Building	3	11:00-11:25	Ken Klassen, CMHC International Training Team	Building materials: how to tell ‘green’ from ‘greenwash’
	4	11:25-11:50	Jeff Hood, Icnene	High performance insulation as a green building material
	Q&A	11:50-12:00	n/a	Q&A
Concrete	5	13:30-13:55	Ali Elian, Dubai Central Laboratory	EcoSmart concrete test results & DCL policy
	6	13:55-14:20	Mike Richardson, Ras Al Khaimah Cement	Blended cement
	Q&A	14:20-14:30	n/a	Q&A

Tuesday, April 22

Theme		Time slot	Speaker name & company	Topic
Concrete	7	13:30-13:55	Michel de Spot, EcoSmart	EcoSmart concrete: material and computer modeling for durability (Canadian tests with local material)
	8	13:55-14:20	James Aldred, GHD	Use of fly ash concrete in the Burj Dubai Tower
	Q&A	14:20-14:30		
Green Building	9	14:45-15:10	Khaled Awad, Masdar	Sustainable concrete for a zero-carbon, zero-waste city
	10	15:10-15:35	TBA	Green building in the Emirates
	Q&A	15:35-15:45		Q&A

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