

4th International Conference

on

Geofoam Blocks in Construction Applications

**EPS 2011
NORWAY**



6.- 8. June 2011

Thon Hotel Arena, Lillestrøm,
Norway



Statens vegvesen

The Norwegian Public Roads Administration



Conference aim

Geofoam blocks as a lightweight fill material

Since 1972 blocks of Expanded Polystyrene (EPS) have been used as a lightweight fill material for road construction purposes in Norway. Later a variety of applications have been added for Civil Engineering purposes in general and there is a marked increase in the use of such applications on a global scale. Research activities are carried out in several countries for further enhancement of material knowledge and application methods.

The aim of the conference is to gather both users and non-users of Geofoam blocks in order to exchange knowledge about the method through presentation of research results, new applications and case histories.

Conference themes

Present use of Geofoam:

Reports by members of the International Organizing Committee on known applications, type of projects and volumes.

Expanded Polystyrene:

Chemical composition and production process
Index properties
Product control
Durability

Material properties and modelling:

Model studies
Dynamic properties
Fatigue

Design specifications:

International standards
National specifications
Seismic design

Construction applications:

Roads, Railroads and Airports
Buildings and Industrial plants
Landscaping
Settlement mitigation
Load reduction on buried culverts
Failures

New concepts and special topics:

Innovative use of Geofoam blocks
Avalanche protection
Disaster prevention – climate change
Re-use/recycling of Geofoam blocks



International Organizing Committee:

Mr. Roald Aabøe, Norwegian Public Roads Administration (Chair)
 Mr. Hideki Tsukamoto, CPC, Japan
 Professor Dawit Negusse, Geofam Research Center, USA
 Dr. Milan Duškov, InfraDelft, The Netherlands

National Organizing Committee:

Jan Vaslestad: Norwegian Public Roads Administration (Chair)
 Anne-Kjersti Frydendal: Norwegian Industries, EPS Group
 Gunvor Baardvik, NGI – Norwegian Geotechnical Institute
 Torgeir Haugen, NCC
 Arnfinn Emdal, NTNU – Norwegian University of Science and Technology
 Arnstein Watn, SINTEF
 Geir Refsdal: Norwegian Public Roads Administration
 Kaare Flaate: Private Consultant
 Tor Erik Frydenlund: Geo Con (Secretary)

Programme:

Sunday 5 th of June		Monday 6 th of June		Tuesday 7 th of June		Wednesday 8 th of June	
Time	Topic	Time	Topic	Time	Topic	Time	Topic
		08:00	Registration continued	08:30	Seismic design	08:30	Buoyancy
		08:30	Conference opening				Case histories
			Historical events				
			Cost effectiveness			10:25	Conference closure
		10:40	Coffee break	10:35	Coffee break	10:35	Coffee break
		11:00	Case histories	10:55	Theoretical modelling	11:00	Site visit
					Disaster mitigation		
					Problem mitigation		
		12:40	Lunch	12:35	Lunch	13:00	Lunch
		13:30	Case histories	13:30	Material properties		Departure
			Long term monitoring				
					Chemical composition		
		15:35	Coffee break	15:35	Coffee break		
		15:55	Numerical modelling	15:55	Recycling		
					Life cycle costs		
					Design guidelines		
		17:35	End of presentations		International standards		
18:00	Registration	18:00	Boat cruise/dinner	18:00	End of presentations		
19:00	Reception			19:00	Banquet		

Key dates:

- Abstract submission: 31st of December 2010
- Abstract acceptance: 15th of January 2011
- Preparation and submission of papers/PowerPoint presentations: 31st of March 2011
- Paper/PowerPoint acceptance: 30th of April 2011
- Completion of Conference proceedings: 31st of May 2011

Previous conferences:

Oslo, Norway 1985
 Tokyo, Japan 1996
 Salt Lake City, Utah, USA 2001

Where?

The conference will be held at Thon Hotel Arena, Nesgata 1, 2004 Lillestrøm.

For more information please see <http://www.thonhotels.no/arena>

How to reach Lillestrøm

Airport train from Oslo Airport Gardermoen or Oslo City to Lillestrøm, (12 minutes).

See www.nsb.no for more information.

Web site:

Updated information will be provided on the conference web site:
www.EPS2011.no

Organizing bodies:

The Norwegian Public Roads Administration



Statens vegvesen

Secretariat: Tekna –

The Norwegian Society of Chartered Technical and Scientific Professionals



Secretariat:

Siri Engen
Tekna – Teknisk-naturvitenskapelig forening

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