



Introduktion v/ Dorthe Mathiesen

Referencegruppemøde d. 30. november 2012

Time	What	Who
9.00	Welcome and introduction	Dorthe Mathiesen, DTI
9.10	Midterm presentation of A Coupled Transport and Chemical Model for Durability Predictions of Cement Based Materials	Mads Mønster Jensen, DTU
9.25	Tool for quantification of chloride binding	Søren L. Poulsen, DTI
9.40	Midterm presentation of Numerical Modeling of Reinforcement Corrosion in Cracked Concrete	Anna Emilie A. Thybo, DTU
9.55	Integrated modeling of reinforcement corrosion and associated concrete cracking	Alexander Michel, DTU
10.15	Coffee break	All
10.30	Influence of curing temperature on the development of properties: Example of practical application	Claus Pade, DTI
10.45	Influence of curing temperature on the development of properties: Microscopic investigations	Ulla Hjorth Jakobsen, DTI
11.00	(1) Long-term durability of concrete in marine environment: Investigation of Danish bridges (2) Birth certificates for concrete constructions	Henrik Sørensen, DTI
11.20	Outcome from a workshop between DTU, Stanford University, NTNU and DTI in order to point out new research areas	Henrik Stang, DTU
11.35	Continuation of research activities	Dorthe Mathiesen, DTI
11.45	General discussion	All
12.00	Lunch	All

Kick-off activities

Contract October 2010
Meetings stakeholders
Establish reference group
Gross list of ideas
Meetings stakeholders
Project plans
Kick off 2011

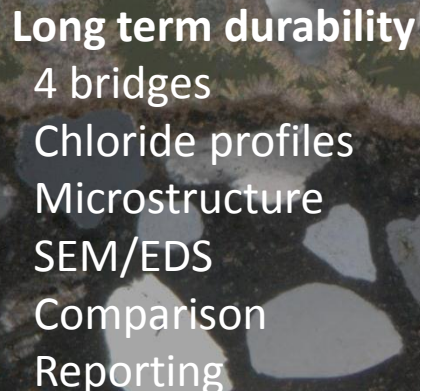
Initiation of DTU projects:

2 M.Sc projects
Zhara (Chl. Binding)
Sverri (Threshold value)

2 Ph.d projects
Mads (SL models)
Anna Emilie (Crack models)

Post Docs
Bradley (X-ray, corrosion)
Alex (crack models)

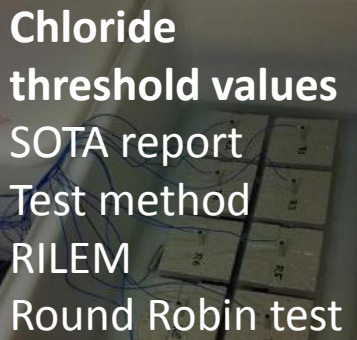
Overview of activities



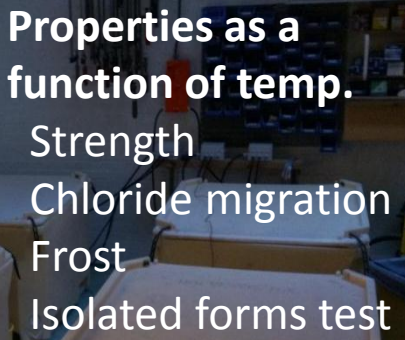
Long term durability
4 bridges
Chloride profiles
Microstructure
SEM/EDS
Comparison
Reporting



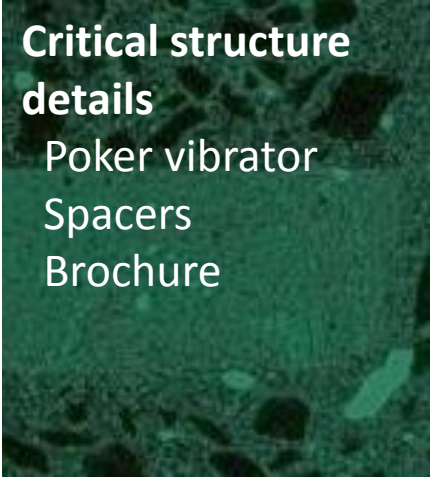
Chloride binding
Modelling
2 test verifications
Tool developed



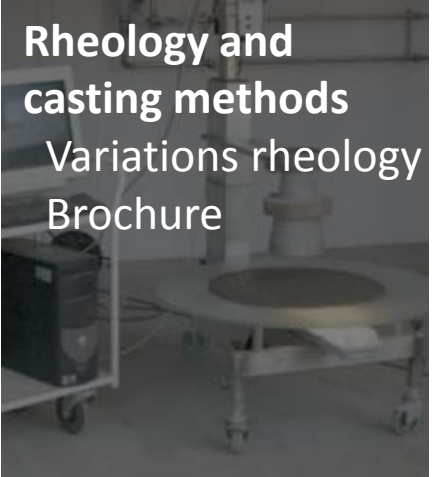
Chloride threshold values
SOTA report
Test method
RILEM
Round Robin test



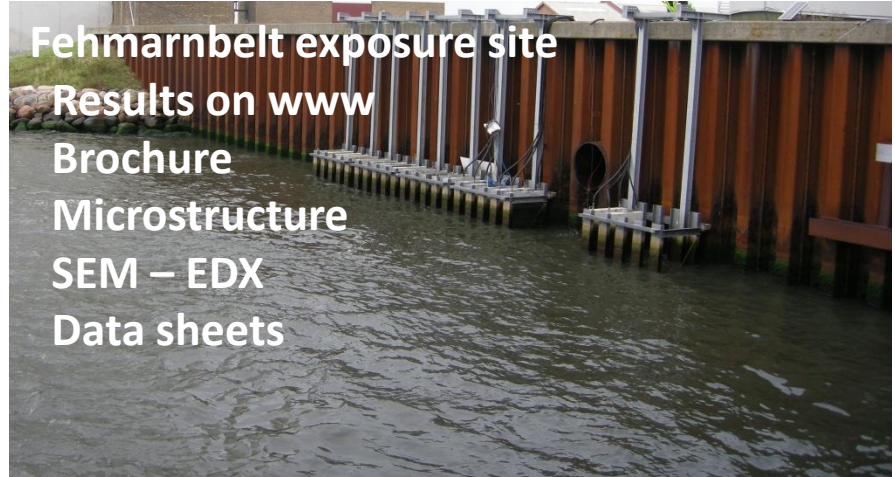
Properties as a function of temp.
Strength
Chloride migration
Frost
Isolated forms test



Critical structure details
Poker vibrator
Spacers
Brochure



Rheology and casting methods
Variations rheology
Brochure



Fehmarnbelt exposure site
Results on www
Brochure
Microstructure
SEM – EDX
Data sheets

Dissemination

Press release

4 meetings with ref. group

2 newsletters

Dansk Betondag 2011 Exhibition

14 papers

10 presentations at conferences

Articles Ing, Licitation, Dansk
Beton, Building Supply...

Roadshow – not finished

Euroseminar “Microscopy”

Presentation Dansk Betondag 2012

DBF, March 2013

www.concreteexpertcentre.dk

Lobby

Refine, Horizon 2020

Strategy future activities