

Update from the ENCORD President Ger Maas

Dear ENCORD member - Facing the pressure of today's challenging market circumstances, ENCORD's member companies are focussing on new market perspectives as well as on more cost-efficient processes to "overcome" the current economic turmoil.

Sharing knowledge in ENCORD's network guides the members on their way of improvements and stimulates them in the right direction.

This newsletter informs you about ENCORD's latest activities. It also delivers the opportunity to share the ENCORD life with colleagues in your company. We have had the chance to meet many of them already and we hope to welcome everyone in the future who would like to participate in one of our meetings and workshops.

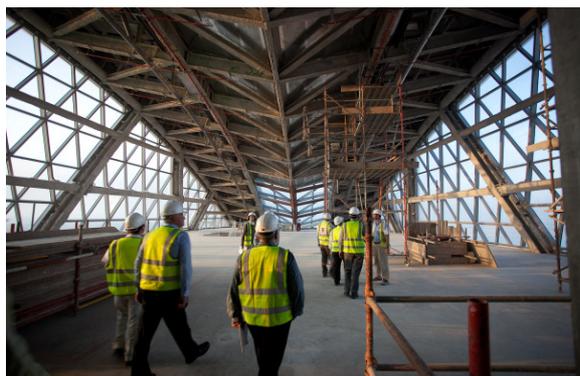
Ger Maas | ENCORD President

ENCORD Council meeting January 2010

25-25 January 2010 | Dubai and Abu Dhabi, UAE | hosted by Consolidated Contractors Company (CCC) of Greece

The agenda of this Council Meeting included

- a) the Council Meeting topics as well as
- b) a focus on "Sustainability" with site visits to two projects with a strong focus on sustainability – the Masdar project and the Aldar Headquarter, both in Abu Dhabi. The aim was to look at the future of sustainable construction, and what ENCORD was/could be doing to further drive this agenda;
- c) a presentation and discussion on the financial situation in the United Arab Emirates by Mr Khaled Sifri (CEO of the Arab Emirates Investment Bank) who has an extensive global banking and investment background as well as a degree in civil engineering, and
- d) an introduction to the work of CCC in the region, to discuss some of the technical and logistical challenges facing construction companies on large projects in the middle east.



ENCORD Council meeting June 2010

The next ENCORD Council meeting is hosted by UPONOR, 7 and 8 June 2010 in Copenhagen, Denmark. The meeting location is the Danish Engineering Society, Kalvebod Brygge 31-33, DK-1780 Copenhagen.

The meeting is scheduled for a 12.00h noon start Monday and 12.00h noon close Tuesday with the possibility for a light lunch afterwards for

those who have time. Our host UPONOR is also planning a site visit for late afternoon Monday. Planned topics of the meeting include:

Workshops and initiatives – Reviews and Outlook

- Feedback CO2 meeting, decision on CO2 reporting protocol final version and a discussion and decision on the next steps relating to CO2 reporting and a broader sustainability approach (Charlie Law, BAM and Harry Lakeman, CCC)
- Feedback Health & Safety Workshop, introduction next workshop (Rennie Chadwick, VINCI UK and Harry Lakeman, CCC)
- Feedback from VCP / 5DI group (Menno de Jonge, Ballast Nedam)
- ENCORD and Sustainable Building Alliance MOU (Louis Demilecamps, VINCI)
- Outlook on upcoming workshops: Lean Construction and Aging Society (Ger Maas, BAM)

ENCORD internal

- Discussion current focus areas, what are the members doing, how are they doing it? Suggestion to create a brief overview of the member companies
- Discussion potential new members
- Discussion on networking with other organizations outside of Europe, like the American Society of Civil Engineers

European topics

- Feedback from Ger Maas's presentation at the European Parliament
- Overview of European Research opportunities
- ENCORD / ECTP answer to Barroso 2020 strategy
- Update from the ReFINE initiative and future role of ENCORD members (Norbert Pralle, Züblin and Jean-Pierre Hamelin, Soletanche Bachy)

UPONOR – the host of the June 2010 Council Meeting

Uponor is a leading international supplier of indoor climate and plumbing systems for the residential and commercial building markets. Uponor is present in all European and North American markets, and its products are sold in over a hundred countries. In the Nordic countries, Uponor is also a prominent regional supplier of municipal infrastructure pipe systems.

Uponor's objective is to offer solutions for controlling indoor temperature and air quality, optimised in terms of health, cost level, productivity and energy consumption. In the plumbing field we support the construction industry with our flexible, reliable and easy-to-install systems.

Our indoor climate systems entail radiant heating and cooling systems as well as ventilation and energy distribution networks. Radiant heating and cooling utilizes large surface areas at temperature levels close to indoor temperature, ensuring optimized operating conditions for free and renewable energy sources, at the same time providing for a uniform and comfortable thermal environment.

The R&D&I focus in Uponor is on improving the health and productivity impacts of buildings, efficiency of the construction process and sustainability of the built environment. Key issues in this context include optimising heating and cooling systems from the point of view of utilising free and renewable energy sources, prefabrication and modularity of building services systems, installation efficiency and reliability. Memberships in ENCORD, ECTP and several national Green Building Councils support our effort to collaborate with key customers and partners in the construction industry for innovation.

We strive to build long-term development partnerships with our customers and with prominent research institutes and universities. Constant

improvement of production processes from the cost and environmental efficiency points of view is an integral part of our activities.

For more information see www.uponor.com

The UPONOR Council members are Ilari Aho | Vice President Indoor Climate Business Group and Thomas Vogel | Manager Indoor Climate Systems Development

ENCORD Workshops

ENCORD CO₂ and Sustainability Working Group

29-30 March 2010 | Hemel Hempstead, UK

The aim of this ENCORD CO₂ and 'Sustainability' Workshop was to further develop work around monitoring and reporting of CO₂ emissions from construction and to discuss how the group could widen its focus to address other sustainability issues. The hosts were Charlie Law and Jesse Putzel of BAM UK.

The meeting confirmed agreement on the ENCORD CO₂ measurement protocol, and the workshop members agreed, as a pilot project, to measure and report on emission blocks 1 to 7 for 2009 (where the data is available) and 2010, and that this would be taken back to the next ENCORD council for adoption. It was also agreed to set a long term target on emission reductions once a baseline figure has been established. There was progress on measurement of waste and material CO₂e emissions and presentations on CO₂ reduction initiatives were made by some member companies.

The second day of the meeting focused on some of the wider issues regarding sustainability, including the measurement of waste, as well as investigating what other areas member companies were focussing on.

Next steps for the **Workshop in July 2010** include formulating an ENCORD Sustainability Policy, formulating and adopting a Waste Measurement Protocol, continuing to develop the CO₂ measurement protocol in the areas of waste and materials, produce best practice case studies on emission reduction, achieve wider buy-in for the ENCORD protocol, specifically with the WRI and WBCSD and define in more detail how member companies and the industry should address scope three emissions.

ENCORD Health and Safety Workshop

9 March 2010 | London, UK

The workshop evaluated the benefits that could be gained from using the ENCORD network for driving improvements in Health and Safety. The host was Dr. Rennie Chadwick, VINCI Construction UK.

Each participant shared current performance data and initiatives. A more detailed presentation of the Balfour Beatty initiative 'Zero Harm' was given by John Dunne. Fred Garner and Terry Penketh of VINCI provided an insight to the VINCI health and safety management system and its application on the King's Cross railroad station project, including many examples of how to implement the system in a challenging and large scale project.

Next steps for the **Workshop in October 2010** include:

- An analysis of the different performance measurement approaches, to enable the start of the benchmarking process
- Examples of construction plant and equipment that, through its normal operation, posed a health & safety risk
- Drafting a 'charter' or 'modus operandi' document for the activities of the group for promotion within the senior management of the companies

- An insight to the health and safety initiatives taken by the host companies.

ENCORD Council meeting in November 2010

15-16 November 2010 | La Gaude, France | hosted by IBM

The November Council meeting will be hosted at IBM's Research Center in La Gaude, in southern France. The meeting will link elements of IBM's Smart Plant vision (Smart City, Smart Traffic, Smart Grids, Smart Buildings, etc.) to our ENCORD's research challenges.

Presentations and visits to IBM's User Experience Labs in La Gaude (theory and practice) will be scheduled on these shared topics: it is planned to have several sessions consisting of a presentation and a visit to the specific User Experience Labs.

Possible topics include:

- Smart City as the general theme for the presentations;
- Smart Traffic (road pricing, traffic prediction, connected cars, examples from Brisbane, Stockholm, Kyoto, Singapore, ...);
- Smart Grids (Energy systems, Smart Meters,...);
- Smart Buildings (CO₂ emissions, intelligent buildings, ...);
- Smart Water Management (process automation, net centric automation, river dike monitoring, ...);
- Use of RFID in construction processes;
- Knowledge Management.

The meeting is planned to finish after a discussion on the implications of the presented research for ENCORD and the member companies.

ENCORD Calendar

ENCORD Council Meeting

7-8 June 2010 | Copenhagen, Denmark | hosted by UPONOR | contact jens-peter.grunau@zueblin.de

ENCORD CO₂ and Sustainability Working Group

5-6 July 2010 | location to be determined | contact claw@bam.co.uk

ENCORD Health and Safety Workshop

5 October 2010 | The Hague, Netherlands | hosted by Ballast Nedam and BAM | contact [Jan Theelen j.theelen@ballast-nedam.nl](mailto:Jan.Theelen@ballast-nedam.nl) or [Marcel Wilhelm m.wilhelm@ibec.nl](mailto:Marcel.Wilhelm@ibec.nl)

ENCORD Virtual Construction Platform / 5Di

11-12 October 2010 | Paris, France | contact mf.dejonge@ballast-nedam.nl

ENCORD / ECTP Aging Society Workshop

26-28 October 2010 | Munich | hosted by Fraunhofer Gesellschaft | contact GJ.Maas@bamgroep.nl

ENCORD Lean Construction Workshop

Fall 2010 | location to be determined | contact GJ.Maas@bamgroep.nl

ENCORD Council Meeting

15-16 November 2010 | La Gaude, France | hosted by IBM | contact jens-peter.grunau@zueblin.de and mf.dejonge@ballast-nedam.nl