

# Model based development of Embedded Systems - an ICES Seminar!

Monday 29<sup>th</sup> September 2008

Sal 432, Hus Forum, Isafjordsgatan 39, Kista

**ICES seminars have the overall purpose to provide a meeting point between industry and academia in order to stimulate:**

- Discussions on different facets of embedded systems
- Sharing of industrial experiences, needs and trends
- Outlooks on new solutions and hot research topics
- The formulation of questions and future directions (a concrete aspect of this is to formulate follow-up seminars)

The topic of this very first ICES seminar is model-based development (MBD), also frequently referred to as model-driven development. Formalized descriptions amenable to computer manipulation (models) are applied for many purposes during various stages of system development. The role of MBD includes the use of models for the purposes of communication, documentation, analysis and as a basis for construction and further synthesis.

**At this seminar we will provide snapshots from the following viewpoints of model-based development (MBD):**

- Structured information and requirements management
- Architectural design
- Function/behavior design and code generation
- Model exchange and UML-related standards

There will be time for discussions and the seminar ends with a panel debate involving all invited speakers.

[Attendance is free for ICES members and KTH staff and students, and there is also a discount for INCOSE members (please mention this in your email to Vicki when registering). For all other participants, the fee is 1000 SEK (to be invoiced).]

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## PROGRAM:

- |        |  |  |
|--------|--|--|
| 13.00  | Opening; introduction to ICES and the seminar  | Martin Törngren<br>KTH                     |
| 13.10  | <b>Industrial experience and challenge presentations :</b>   |  |
|        | ➤ Adaptive cruise controller development   | Magnus Eriksson<br>Scania                  |
|        | ➤ Saab Aerosystems experiences in and strategies for model based systems engineering                                 | Erik Herzog<br>Saab                        |
|        | ➤ Industrial Experience and Challenges of Model Driven Development   | Johan Åkerberg /<br>Jimmy Kjellsson<br>ABB |
| 14.25  | <i>Coffee</i>  |  |
| 14.50  | <b>Information and requirements management through MBD</b>   | Diana Malvius<br>Syntell and KTH           |
| 15.15  | <b>Research experiences and trends</b>   |  |
|        | Model driven engineering and model exchange  | Johan Lillius<br>Åbo Akademi               |
|        | <i>Leg stretch</i>   |  |
| ~16.00 | <b>Panel discussion with all speakers!</b>   |  |
|        | Opening: Trends and open issues in model based development - challenges for the future to be discussed by the panel! | Martin Törngren<br>KTH                     |
|        | <b>Concluding remarks and seminar ending</b>   |  |

## How to Register!

- ✓ Email [Vicki@md.kth.se](mailto:Vicki@md.kth.se) by 5pm Wednesday 24<sup>th</sup> September
- ✓ Please state whether you are an ICES member, and include the name of your Company / University / KTH Department.

**Please note that the number of participants is limited.**

**Early registration is recommended!**