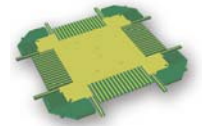


# Essential tools for MEMS + IC Systems

17<sup>th</sup> and 18<sup>th</sup> of May 2010,  
Paris (Massy & Villebon), France



From traditional applications (automotive, military...), the MEMS market is now expanding to high volume applications such as consumer electronics (gaming, mobile phone...). The MEMS ecosystem is evolving at the same time: fabless design houses and pure MEMS foundries are emerging. In this changing environment MEMS+IC co-design via System Level Simulation and data exchange between engineering designers is becoming highly critical.

Coventor, the leading provider of MEMS design-automation software, is organizing a seminar to further explore this topic. During the first day, leading experts will give their vision on challenges given by MEMS+IC and system simulation. The second day will provide a free-of-charge training on a new design platform called *MEMS+™*. MEMS+ allows MEMS+IC co-design within existing widely used simulation tools, allowing true understanding of the device and control electronics performance.

## Day 1 - Presentations and Speakers includes:

- ✓ Olivier Vancauwenberghe ( MEMS Design Engineer, **Schlumberger** ) :  
*MEMS for Oilfield Applications: Sensor & System Design*
- ✓ Fabrice Casset ( MEMS Design Engineer, **STMicroelectronics** ) :  
*Micro-systems design and integration*
- ✓ Chris Welham ( Worldwide Application Engineering Manager, **Coventor** ) :  
*Novel EDA-compatible methodology for design of MEMS+IC*
- ✓ Frederic Negny ( Account Manager of Technology, **Cadence Design Systems** ) :  
*MEMS - IC co-optimization using ADE-GXL*
- ✓ Philippe Basset ( Ass. Prof., **ESIEE Paris** ) & Dimitri Galayko ( Ass. Prof., **UMPC** ) :  
*MEMS energy harvesters based on electrostatic transduction and related conditioning electronics*
- ✓ Gerold Schröpfer ( Director Europe, **Coventor** in collaboration with **X-Fab** ) :  
*3D Process Modeling - A Novel and Efficient Tool for MEMS Foundry Design Support*
- ✓ Alexandre Bounouh ( Micro-Nanosystems Projects Manager, **LNE** ) :  
*Voltage standards based on MEMS technology*

The Seminar and the training are free of charge. It is possible to register for either of these days or both. However, spaces are limited, so please register today to ensure your place. To register, please contact Christophe de Vorges ([christophe.devorges@coventor.com](mailto:christophe.devorges@coventor.com)) or visit our website.

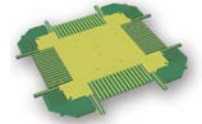


More info under Coventor Website  
<http://info.coventor.com/free-seminar-and-workshop-coventor/>



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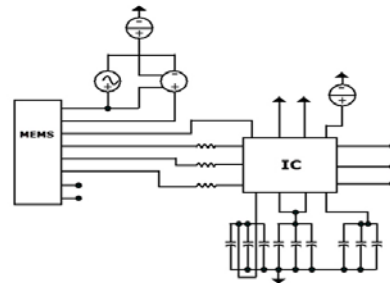
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## Day 2 - Hands-on training:

This day will give in depth knowledge of MEMS+ platform with Cadence, by hands-on practice.

- Getting started with MEMS+ Entering design data, linear and non-linear component models, coordinate systems, reference frames, exposing variables. Mirroring, arraying, perforations, boolean operations electrical & mechanical, connectors.
- Discover MEMS+: Accelerometer Classroom Exercise. Enter materials & process data. Specify variables for creating parameterized sensor design. Create parameterized sensor design, define mechanical and electrical connections.
- Import MEMS+ schematic into Cadence, add circuitry and perform MEMS+IC small signal, transient simulation, vary analysis. View results in Scene3D. Review numerical settings and scaling variables.
- MEMS+ and Matlab



## Times and Locations :

### 1<sup>st</sup> day - workshop

Date: 17<sup>th</sup> of May 2010      Time: 10h00 - 17h30

Location: [Hotel Mercure Paris Massy GARE TGV, 21 avenue Carnot, 91000 Massy, France](#)

### 2<sup>nd</sup> day - hands-on training

Date: 18<sup>th</sup> of May 2010      Time: 09h00 - 17h00

Location: [Coventor European Headquarter, 3 avenue du Quebec, 91140 Villebon, France](#)

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