

STEERING COMMITTEE

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B. Courtois (*chair*)
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D. Donoval
G. Gielen

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SOCIAL EVENT

A dinner will be served in a charming hotel and gourmet restaurant castle named Le Château de la Commanderie, at only 10 minutes from Grenoble city center, on Thursday 10 May 2012.

Address: 17 Ave d'Echirolles 38320 Eybens

Phone : +33(0)4 76 25 34 58

<http://www.commanderie.fr>



During the social event, anybody who would like to say a few words (testimonials, suggestions, etc.) will have the possibility to do so. A few personalities have already expressed the wish to take advantage of this opportunity:

François Anceau, Founder CMP, UPMC/CNAM, France

Dan J. Gale, CTO, CMC, Canada

Jean Michel Karam, CEO, MEMSCAP, France

Philippe Magarshack, Technology R&D Group VP, STMicroelectronics, France

Ricardo Reis, UFRGS, Brazil

A bottle of Cognac will award the funniest contribution.

Commercial Sponsors



PROGRAMME COMMITTEE

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VENUE – LOCATION

The workshop is hosted at World Trade Center (WTC). WTC in the heart of Grenoble, located between train station and CMP.

“At the end of every street, a mountain”, said Stendhal. Located in the heart of the French Alps, Grenoble enjoys an exceptional geographical location and natural environment, making work and leisure easy to combine. The capital of the Alps benefits from an ideal geographic situation, at the same time close to the Lyon and Geneva airports.

CALL FOR PAPERS

9th European Workshop on Microelectronics Education

Grenoble, France

May 9-11, 2012

Sponsored by:



EWME 2012 is the ninth Workshop on microelectronics education to take place in Europe. The previous ones were held in Grenoble (1996), Noordwijkerhout (1998), Aix-en-Provence (2000), Vigo (2002), Lausanne (2004), Stockholm (2006), Budapest (2008), and Darmstadt (2010). **EWME** is held every second year in Europe, while **MSE** (Microelectronic Systems Education) is held every other year in the USA.

Chair: Bernard Courtois, CMP Grenoble, France

Vice Chair: Sorin Cristoloveanu, IMEP Grenoble, France

The Workshop will be the opportunity to celebrate the 30 years of CMP. Testimonials by world-renowned scientists, industry leaders and entrepreneurs will be offered.

[HTTP://CMP.IMAG.FR/CONFERENCES/EWME2012](http://CMP.IMAG.FR/CONFERENCES/EWME2012)

KEYNOTE

The Keynote will be delivered by **Andreas Wild**, Executive Director of ENIAC.

The ENIAC Joint Undertaking (JU) is a public-private partnership focusing on nanoelectronics that brings together Member/Associated States, the European Commission, and AENEAS (an association representing European R&D actors in this field).

INVITED TALKS

"From MEMS at CMP to MEMSCAP" **Jean Michel Karam**, MEMSCAP, France

"Graphene as a new device material: A lesson for the future" **Young Kuk**, Seoul National Univ., Korea

"Deficiencies in Nanoscale CMOS device education" **Jerry Fossum**, Univ. of Florida, USA

"Cumulated experience from academia, industry and legal affairs" **Peter McLarty**, Texas Instruments, USA

"Match and mismatch between Industrial and academic perspectives on micro/nanoelectronics education and research" **Yoshio Nishi**, Stanford Univ., USA

"Fully-depleted SOI technology: a powerful architecture for the 20nm node and beyond" **Carlo Reita**, CEA-LETI, France,

"Which transistor path: FinFET, tri-gate, FDSOI, Ge/III-V, bulk CMOS...." **Thomas Skotnicki**, STMicroelectronics, France

"Teaching printed electronics" **Takao Someya**, Univ. of Tokyo, Japan

"Shaping the history of SPICE and the present of IC design and education" **Andrei Vladimirescu**, ISEP, France/UC Berkeley, USA,

"An undergraduate electronics curriculum for the 21st century" **Mark Law**, Univ. of Florida, USA

PANEL

A panel of the Service Organizations will be discussing the following subject "At the time we approach the CMOS downsizing limits, is there still a need of us? What are the expectations of the Professors uncovered by us?"

Moderator: **Manfred Glesner**, TU Darmstadt, Germany

Panelists: **Ian McWalter**, CMC, Canada

Wes Hansford, MOSIS, USA

Bernard Courtois, CMP, France

John McLean, RAL, United Kingdom

Kunihiro Asada, VDEC, Japan

Bin Wu, ICC, China

Tzi-Dar Chiueh, CIC, Taiwan

Kyoungrok Cho, IDEC, Korea

SPECIAL SESSIONS

"From the lab to the room"

Design learning requires a mix of theory (lessons) and practice (hands-on labs), which can be integrated into "lab in the room" sessions. Papers can describe teaching experiences which merge theory and design activities, with focus on course contents, organization, and support services.

This special session is organized by **Dante Del Corso**, Politecnico di Torino, Italy

"Microelectronics education in emerging countries"

The session aims to present the heritage, state of the art, and development strategies of microelectronics education in emerging countries ranging from former Soviet Union territory, Asia, South America, and Africa. Most of new semiconductor foundries are being constructed in Asia and the contribution of China and India to global economy is well known. This special session is organized by **Srinivas Mandalika**, BITS Pilani, India and **Andrzej Rucinski**, University of New Hampshire, USA

"Cultivating non-technical skills in student projects"

The most successful engineers have always been effective communicators and leaders, able to address economic, social, environmental, and political needs while accomplishing a technical goal. In recognition of this, engineering programs are increasingly seeking to develop this full spectrum of abilities in students. One of the most popular approaches is to incorporate non-technical requirements into student design and research projects, but this can take many forms. For this session, authors will explain and give evidence of a variety of ways that non-technical skills have been cultivated in the setting of student project work. This special session is organized by **Mark C. Johnson**, Purdue University, USA

AIM OF THE WORKSHOP

The purpose of the workshop is to provide a forum to exchange ideas and to discuss developments and challenges in education on microelectronics, microsystems and related areas. Topics of interest include (but are not limited to):

- * Industrial outlook and projects
- * Emerging fields in design and technology
- * New concepts in teaching
- * Multimedia in microelectronics
- * Design innovations and technological innovations
- * Industrial roadmaps and microelectronics education
- * Exchanges (compatibility of curricula, student exchanges, ...)
- * Microelectronics teaching in the future
- * Long distance and continuous microelectronics education
- * Novel curriculum on micro- nanoelectronics education
- * Novel courses, laboratories and design projects development
- * Globalization and international education.

SUBMISSION

Authors should submit not later than January 15, 2012, a 4 pages paper (A4 format). For submitting your paper, please follow the instructions at:

<http://cmp.imag.fr/conferences/ewme2012>

In case of any problems with the submission procedure please contact Bernard COURTOIS: ewme@imag.fr

Submission deadline: **January 15, 2012**

Notification of acceptance: **March 3, 2012**

Submission of manuscripts

for distribution at the Workshop: **April 9, 2012**