



Commercialization of Micro and Nano Systems Conference

Baden-Baden - August 21-25, 2005

Shaping the Future of the Micro Nano Marketplace

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Welcome

Welcome to the final edition of the e-newsletter for [COMS 2005](#), the 10th annual conference on Commercialization of Micro and Nano Systems, held in beautiful Baden-Baden Germany, August 21-25, 2005.

COMS 2005 was a great success, drawing over 275 people and 35 exhibitors to an exceptional program, wonderful social activities and the industry's best networking opportunities.

Co-hosts MANCEF and FZK would like thank all of those who came out to attend.

Program Highlights

The rebound of the MEMS industry was demonstrated with talks by Bruce Alton of [Micralyne](#) and Dan Hyman of [XCOM Wireless](#). Bruce explained how Micralyne was successful by identifying strategic customers and working with them to grow together. Dan explained how XCOM Wireless was successful by focusing on niche market areas and leveraging their expertise in RF MEMS.

The successful emergence of nanotechnology was seen with [Zyvex's](#) James von Ehr's talk, Nanotechnology without the Hype. James described how Zyvex's three core areas of expertise: nanomaterials, nanomanipulation tools, and micro assembled structures; were leveraged to create products and performance that the market demands, then selling to those markets.

The invited talk on UK strategy by David Hughes of the DTI and a detailed presentation on the [UK MNT network](#) by Roger Carline lived up to the pre-conference hype which highlighted these talks as a main attractions of the event. Though previous events have highlighted UK excellence, this is the first time the UK has presented a substantial and coherent message on its MNT activity during the 10 years of COMS conferences, despite hosting one of the most popular conferences in Oxford, 2001. This year the UK had the largest number of delegates in the history of COMS with many excellent UK presentations and exhibition stands from companies.

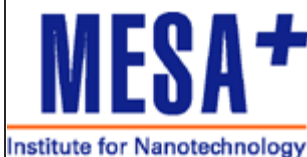
Education and Workforce Development Session

The education and workforce development session chaired by Robert Giasolli was also well attended and included a roundtable discussion of issues that need to be addressed in ensuring that the MNT workforce is ready for the challenges of this unique industry. Two important messages are the need for multi-disciplinary teams, and the need for MNT education at a vocational and technical school level. Gerhard Salinger's invited talk highlighted the work that the US [National Science Foundation](#) is doing to ensure that the educational system adapts to the changing needs of the MNT industry.

COMS 2005 Awards

Best Paper

Clive Davenport, Microtechnology Australia
Sponsored by: *MANCEF*



Media Partners:



Best paper "Commercialization of MNT"

Daniel Hyman, XCOM Wireless, Inc.
Sponsored by: TechnologieRegion Karlsruhe

Best paper "Education and Training in MNT"

Matthias Pleil
Southwest Center for Microsystems Education and Albuquerque Technical Vocational Institute
Sponsored by: Forschungszentrum Karlsruhe

Best paper "Infrastructure development for MNT"

Bruce Alton, Microlyne, Inc.
Sponsored by: Micro Nano Technology Network, UK

Best paper "Nanotechnology Commercialization"

Maria Chachamidou Aristotle University of Thessaloniki
Sponsored by: Zyvex Corp

Best submitted Student Poster

Daniel Brugger IMT - Forschungszentrum Karlsruhe
Sponsored by: Boehringer Ingelheim microParts

Excellent submitted Student Poster

Thilo Brenner IMTEK – University of Freiburg
Sponsored by: Boehringer Ingelheim microParts

Excellent submitted Student Poster

Daniel Benz IZFM - University of Stuttgart
Sponsored by: Boehringer Ingelheim microParts

MEMS design scholarships

Industry standard MEMS software provider, [Coventor Inc.](#), along with the Micro and Nanotechnology Commercialization Education Foundation ([MANCEF](#)), awarded three MEMS design scholarships to students and their professors during the COMS 2005 conference in Baden-Baden, Germany in August. The scholarships were granted based on proposals submitted by students working in micro systems research around the world. Each student will receive a free 1-year license to Coventor's ANALYZER and DESIGNER CoventorWare software tools to be used in the University setting. Universities were required to be current MANCEF members to be eligible to submit proposals. MANCEF holds a high standard in accepting proposals for these scholarships. Winners are picked based on the quality of the proposal and must comply with Coventor's high-quality standards in the use of its products.

The 2005 winners are:

- **Alejandro Arellano**, of the Advance Technology Institute Tabasco, Mexico for his research of MEMS Flow Sensor for Micro-Fluidics Applications.
- **Ariel Lipson**, a PhD student at the Optical & Semiconductor Devices Group, E.E.E dept., Imperial College London, UK, for his work on a Free-Space MEMS Tunable Optical Filter on (110) Silicon.
- **Paul Tafoya** of TVI Community College in the Advanced Manufacturing Technologies Program, Albuquerque, NM, for his project consisting of creating a system for future MEMS instruction and training.

Each student's work will be published by MANCEF and/or Coventor after



they have completed the MEMS research outlined in the winning proposals. Coventor will offer similar scholarship opportunities at COMS 2006. Proposals will be accepted by MANCEF's Education committee Chair, Robert Giasolli rgiasolli@mancef.org from September 1, 2005 until July 1, 2006.

COMS Thanks Our Lead Sponsors

COMS would not be possible without the generous support of our sponsors. We appreciate all of our sponsors and a special thank you to our lead sponsors: EVG and Süss Microtec (Lead Equipment Suppliers) and Yolé Development (Lead market analyst).

EV Group (EVG) is a recognized technology and market leader for wafer processing equipment.

SUSS MicroTec is a world leading supplier of precision technology providing innovative solutions for markets including Advanced Packaging, MEMS, Nanotechnology, Compound Semiconductor, Silicon-On-Insulator, and 3D Interconnect.

Yole Development is the world leader in the analysis of MEMS and compound semiconductor markets.

THANK YOU TO OUR HOST

COMS 2005 would not have been possible without the hard work of Peter Bley and his team from **FZK** acting as the local host organizers. We extend a sincere Thank You to all who worked tirelessly to bring COMS 2005 together so smoothly.

COMS 2006 Promises new changes

COMS is the leading international conference in MNT commercialization education, It brings together the leading international industrialists, researchers, equipment suppliers, end users, customers, educators, financial experts, and government representatives. MANCEF is pleased to announce that St Petersburg Florida, USA, has been chosen as the co-host for COMS 2006.

Exciting new changes are planned for COMS 2006 to maintain our reputation as the premiere networking and commercialization event. As the industry evolves, we are committed to offering fresh changes to bring more relevance and more of what the community has asked for.

We will be focusing more on the user community by bringing the companies and organizations that use micro and nano technologies in their PRODUCTS. MANCEF members will be working hard to attract speakers from companies that use MEMS and NEMS, to tell the community what they are looking for in a supplier. Key features of designs and process flows will be described. If you have a company or organization that you would like us to attract, tell Carol Steele (csteele@mancef.org).

We will also be highlighting successful commercializers of MNT. The MEMS industry, battered by the optical telecom downturn, is starting to see a recovery with the emergence of successful products in the wireless, automotive, and defense sectors. At COMS 2006, we will be bringing

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examples of these firms to share their experiences with the community on how they re-focused and re-emerged.



SAVE THE DATE! AUG. 27 to 31, 2006
www.mancef-coms2006.org
St. Petersburg, Florida

2006

MANCEF Micro and Nanotechnology
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MANCEF targets Asia/Pacific

MANCEF has committed to extending its reach to the Asia-Pacific region. We understand that the community around the Pacific Rim has much to offer in terms of successful examples of commercialization. In addition, this community has realized that they have some of the same challenges that the MANCEF community has faced around the world. At COMS 2005, the MANCEF leadership met and created a plan for bringing these communities together.

MANCEF created Task Force Asia/Pacific, led by Jane Niall (jniall@mancef.org) to build relationships with leading users and suppliers in the region. This committee will also assist MANCEF by participating in 3 events in the Asia/Pacific region in the coming 6 months. Taitronics - 11-15 Oct, 2005 in Taiwan, AusBiotech-2005, 20-23 November in Perth Australia, and 2nd Asia Nano Forum 7-9 Dec, 2005, in Geelong, Australia

MANCEF also announced that COMS will visit the region for the first time in 2007. Melbourne, Australia has been chosen as the co-host for COMS 2007. This will be the first time that COMS is held outside of North America or Europe and promises to demonstrate the true global nature of the MANCEF community.

For further information on COMS 2006

<http://www.mancef.org/coms2006.htm>

