

Quarterly Newsletter

Fourth Quarter 2008, Vol. 13
2008

Dec

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Founding Past President

Message from the President

AS 2008 comes to an end it is a time to reflect on possibly the most tumultuous economic period since the great depression of the 30's.

Last week I read where the world economy is now considered to be in totally uncharted waters. Whilst times like these often bring with them incredible hardship and stress in our business lives - often to the brink of survival, they also bring a renaissance in methodology, approaches and endeavour. Such times represent outstanding opportunities for micro and nano technologies.

One thing we do know is that as we move into economic recovery, businesses are going to be looking to new generation technologies for their competitive advantages having already expired cost down opportunities with traditional products in dwindling markets.

So whilst we may see more sad stories and difficult times in 2009, it is time to take stock of our opportunities - a time for re-invention and refreshment in everything we do and across all sectors - business, research, service, economic development and government alike. A time when innovation needs to be at its peak - in products, processes, services, sales and support. A time for many of the members of our global micro and nanotechnology community to position and promote themselves to industries looking for new competitive advantages as they re-emerge out of the shadows of 2008.

It will be very telling, and a great vote of confidence to see nations maintaining their expenditure and investment levels in support of micro and nanotechnologies highlighting their significance in underpinning industrial recovery.

On a brighter note, in the midst of the doom and gloom of these difficult global times I attended the Asia Nano Forum Summit 2008 in Abu Dhabi in the United Arab Emirates in November hosted by Khalifa University. I am sure everyone is familiar with the level of development in Abu Dhabi and its neighbouring city of Dubai - but to see it unveiled before your eyes is something to behold. In Abu Dhabi, the exhibition centre alone, is a mini city under development consisting of some 20+ towers. The main exhibition centre constructed in world record time - 8 months. Abu Dhabi and Dubai are determined to be a future hub in global nanotechnology and whilst these are very early days, they are aggressively pursuing that very goal and keen to establish links and networks around the world - another golden opportunity for our MANCEF community.

Looking ahead into 2009, [COMS2009](#) is being held in Copenhagen, Denmark, in August and will be a great time for us to meet to review progress and see how our micro and nanotechnology leaders are mastering the global challenges. I look forward to seeing you there.

In 2008 we co-hosted several regional conferences such as the "2nd International Integration & Commercialization of Micro & Nanosystems Conference & Exhibition" at the Hong Kong University of Science and Technology (HKUST), June 3-5, 2008 with the American Society of Mechanical Engineers ([ASME](#)), and "21st Century Medicine: Breakthroughs and Challenges", in London 26-27 November 2008, with the Institute of Nanotechnology ([IoN](#)). 2009 will see us build further on this initiative of either hosting or co-hosting specialized regional events in our thrust to connect our global community.

May I wish you a very successful 2009 and to hearing of the emergence of new prosperity, businesses and ventures as the year progresses.

Clive Davenport

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Michigan Tech University

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MANCEF
Charter Members:

COMS

2009

Commercialization of
Micro and Nano Systems

Call for Papers
Aug 30 - Sep 04, 2009
Copenhagen, Denmark

www.mancef-coms2009.org

Conference Topics

- Outlook - Challenges in Commercializing Micro-Nanotechnologies
- Global Market Analysis and Latest Trends in Industry
- Investments - Corporate, Government and Venture Capital
- Business Models, Roadmapping and Entrepreneurship
- Education, Innovation and IP Issues
- Partnership and Collaboration Models
- Commercialization Strategies for Academic Research Institutions
- The Role of Micro-Nanotechnology Competence Centers
- MNT for Health and Life Sciences
- MNT for Sustainable Energy and Environment
- MNT for Automotive, Safety, Sensors and Space
- MNT for Electronics and Communications
- Applications of Nanotechnology in the Food Industry
- Tools and Technologies
- Design, Integration and Manufacturing Challenges
- A Scandinavian Perspective

Key Dates:

Abstract submission May 4, 2009	Author Notification June 27, 2009	Manuscript Deadline July 27, 2009	Early Bird Rate June 30, 2009
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The conference venue is the [Radisson SAS Falconer Hotel](#); a modern hotel-, meeting- and event-centre.

The conference venue is located in [Frederiksberg](#) which is one of the most charming areas in Copenhagen. Public transportation, including the Copenhagen Metro subway, is within walking distance and the Copenhagen Airport is a mere 20 minute drive away.

For more information

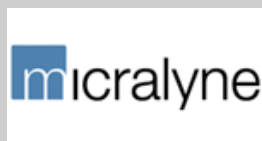
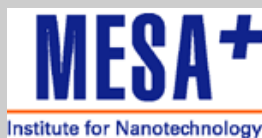
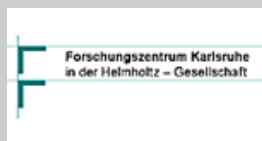
www.mancef-coms2009.org

Local Organizers:



Presenting Organization:





New MANCEF Website

The MANCEF website redesign is almost complete. Please visit us at www.mancef.org to check out our latest news, events, products, jobs, resources, as well as more information on COMS2009 .

We would like to hear from you! If you have feedback or any suggestions for added features, please contact info@mancef.org (remove spaces) with "website" in the subject line.

MANCEF News

MANCEF Executive board member Rafaella Borzi has stepped down from her position due to time constraints. We would like to thank Rafaella for her service with the board & marketing committee. Her enthusiasm and knowledge will be missed!

MANCEF would like to welcome [Jan Wauters](#) to the Executive Board. Jan will take over for Raffaella Borzi. We look forward to working with Jan!!

In 2008 MANCEF kicked off a series of regional events called Commercialization of Emerging Technologies (COMET). These events are designed to highlight micro/nano activities & commercialization in specific regions. They are held in partnership with leading institutions and organizations and are focused on a relevant emerging technology.

We are working on events in Switzerland, Scotland & Belgium for 2009 & 2010. Watch for announcements with more details in the near future.

Summary Report 21st Century Medicine-Breakthroughs and Challenges 26-27 November 2008

Report by David Tolfree 3 December 2008

21 st Century Medicine-Breakthroughs and Challenges 26-27 November 2008 Organized by [IoN](#) and MANCEF

The two day conference was held at Royal Institute of British Architects Portland Place, London 76 Delegates including 21 Speakers 6 sessions including 2 plenary sessions, a Commercialisation Workshop and a Panel Session. The number of registered delegates was fewer than was planned for but this is due to the current economic climate.

General Comments

The conference was well organized at an ideal venue with excellent speakers, many of whom were experts in their fields. It was well supported with speakers from the US, Netherlands, Germany, Switzerland and Australia.

The conference was opened by Otilia Saxl, the CEO of the Institute of Nanotechnology who also chaired the first plenary session on 'Frontiers of Medicine'. The keynote talk was given by Dr Mostafa Analoui, Head of Healthcare and Life Science at the Livingstone Group & Senior Vice President of Charlesson Pharmaceutical USA.

The following session : Commercializing Nanotechnology, chaired by David Tolfree Vice President of MANCEF produced excellent talks by two MANCEF members, Drs Bob Mehalso and Malcolm Wilkinson.

Later on the first day David also chaired workshop on Commercializing Nanotechnology with four speakers. This was followed by a Speakers Panel in which all the speakers participated, enabling members of the audience to ask questions and engage in a dialogue with the panel on key issues raised in their talks. A well known senior Russian physicist, Prof Vladimir Kislov visited the conference and participated in the Panel discussion.

The second day was devoted to specific areas covering, Medical Nanotechnology, Novel Devices and Diagnostics and Cancer. A late speaker, David Mappin of the Seven Seas Consortium, spoke briefly about the development of a new cancer scanner that can identify cancer clusters at 30 microns- the current detectable size is 1mm, which is often too late for most patients resulting in death in 70% of cases. The developer Norbet Beyrard, A Frenchman



Micro/Nano Resources:

[Glossary](#) of Micro/Nano terms



Browse the latest jobs at [TinyTechjobs](#)



Real ways that MEMS, nanotechnology and other emerging technologies are changing how we live, work and play.



[The Promise of Tomorrow Radio Show](#)

Covering the business of emerging & nano technologies.

Sundays 7 -8 pm
Science News Network 1360
AM Dallas/FW

Programs [archived](#) on-line.

Membership

MANCEF members are the top international players in the Micro-Nano Marketplace. We help create global relationships & alliances to facilitate the commercialization of small technologies.

MANCEF Membership Benefits:

Access to a global network of high-level professionals, officials, and agencies, as well as entrepreneurs, financial resources, and technology transfer

is currently having the scanner certified by the French Government prior to it being manufactured commercially.

Events

Here are some upcoming events that the foundation believes are important. This is not a final list of supported events. Keep an eye on our [Events web page](#) for exact dates, venues, and other information:

[COMS2009](#)

Aug 30 - Sep 04, 2009 - Copenhagen, Denmark

[Nano Network of New Mexico](#)

[Nanotech for Green Chemistry/Green Manufacturing Speakers Forum](#)

Feb 11 , 2009 - Albuquerque, NM

[nano tech2009](#)

Feb 18 - 20, 2009 Tokyo, Japan

[A New Bi-National Energy Future: Biofuels & Solar Policy Summit](#)

April 2, 2009 Las Cruces , New Mexico

[HARMST 2009](#)

[The 8th International Workshop on High-Aspect-Ratio Micro-Structure Technology](#)

June 25 - 28, 2009 Saskatoon, Canada

Equipment Maker News

EV Group

22 Dec 2008 [3M and EV Group settle patent infringement suit](#)

01 Dec 2008 [EV Group introduces new suite of aligners and measurement systems for 3D IC and other advanced semiconductor, MEMS and Nanotechnology device manufacturing](#)

19 Nov 2008 [EV Group realizes continued Growth for Fiscal 2008](#)

12 Nov 2008 [EV Group appoints Industry Veteran Dr. Weonsik Yang as General Manager of Korean Subsidiary](#)

[Read more from EVG](#)

Oerlikon

04 Dec 2008 [Oerlikon Solar Brings Micromorph® to Mass Production](#)

26 Nov 2008 [Oerlikon sells Optics business at Golden, Colorado \(USA\)](#)

17 Nov 2008 [Jürg Fedler appointed Oerlikon's new CFO](#)

11 Nov 2008 [Oerlikon Solar's "Amorph High Performance" hits the market](#)

[Read more news from Oerlikon](#)

Surface Technology Systems

29 Oct 2008 [STS and SUSS begin "3D Integration and Advanced Packaging Technology" Roadshow in Tokyo](#)

08 Oct 2008 [STS installs Pegasus DRIE cluster systems for Korea's NIA](#)

09 Sep 2008 [STS and SPP announce the formation of SPP Global Business Services](#)

[Read more news from STS](#)

29 July 2008 [STS and XACTIX launch a new Xef2 etch system for MEMS release in volume production](#)

[Read more from STS](#)

SUSS MicroTec

22 Dec 2008 [SUSS MicroTec Announces Strategic Alliance in Taiwan](#)

04 Dec 2008 [SUSS MicroTec Announces ProberBench™ Operating Environment](#)

25 Nov 2008 [SUSS MicroTec AG: Frank P. Averdung Becomes New Chief Executive Officer](#)

11 Nov 2008 [SUSS MicroTec Introduces the iVista™ LC](#)

channels.

Access to event sponsorship, grants, scholarships, special projects, and members-only discounts.

Charter memberships are special organizational memberships offering a higher level of commitment to the foundation and includes a preference for charter members across the foundation's promotional channels and activities.

Individual memberships are designed to help persons seeking to be a part of a global network or organizations that would like to explore membership before upgrading to a full organizational membership. Individual memberships are special in that they are offered for two years, rather than one. This category also comes with attendant member discounts on events and publications along with special opportunities such as members-only access to information such as conference proceedings throughout the year.

Student memberships are offered only annually at a highly reduced rate, but also include special member discounts on events and publications and the opportunity to compete for scholarships and awards targeted to the academic community. * Subject to review and approval process.

[Charter membership Form](#)
(.pdf)

[Organizational Membership Form](#)
(.pdf)

[Individual/Student Membership Form](#)
(.pdf)

[Read more news from SÜSS](#)

2nd Edition International Micro-Nano Roadmap Chapters Available



While an excellent value as a complete roadmap, some customers have requested individual chapters.

[Order individual chapters here](#) (.pdf):

- [International Bio Nano Roadmap](#) - Coming Soon!
- [Nanotechnology](#) (explores the nuances of Nanosystems, nano enabled industry segments)
- [MEMS Patents](#) (contains a year by year mapping of Microsystems intellectual property)
- [Process and Equipment for MSI](#)
- [Equipment and Tooling for MNT](#)
- [RF MEMS](#) (explores RFMEMS including new opportunities, intellectual property advances, technological process and process advances)
- Two chapter updates are also included: [Foundries](#) and [Packaging & Assembly](#)



[Nano Network of New Mexico
Nanotech for Green Chemistry/Green Manufacturing Speakers Forum](#)

Feb 11, 2009
STC at UNM, Albuquerque, NM

[A New Bi-National Energy Future: Biofuels & Solar Policy Summit](#)

April 2, 2009
Las Cruces, New Mexico

Mission:

The Nano-Network of New Mexico supports the exchange and dissemination of knowledge vital to people and organizations interested in the commercialization of nanotechnologies emanating from New Mexico-based knowledge-capital and organizations.

Objectives:

- Provide a forum for nanotech developers, innovators and investors to discuss the latest developments and breakthroughs
- Promote collaboration of New Mexico nanotech groups and start-ups with corporate nanotech developers and international partners
- Increase sponsored research, licenses, and strategic partnerships for New Mexico based nanotech companies.