

Message from the President

A sincere thank you to all those who sent emails and called to ensure that our Australian friends and families were all safe - escaping the raging bush fires in Australia in February. The disaster brought bravery and human kindness to the fore. One such instance swept the world – a [photograph](#) of volunteer firefighter by the name of Mr Tree sharing his water bottle with a koala caught in the fire.

Many lives, thousands of homes and whole towns were destroyed in what has become Australia 's worst peace time tragedy. Four weeks later and the blackened landscape is bursting back into life with buds of green. A new beginning.

The Global Economic Renewal

The business pages and nightly news highlight the plight of traditional businesses – consumer products, textiles, white goods, automotive, machinery and equipment are all struggling. Major rescue packages are being introduced by all major economies in a bid to stave off recession and collapse. The world is uniting on an unprecedented scale.

Against the backdrop of plummeting sales and rising unemployment we see the emergence of new investment in the high profile areas of Energy, Health, Automotive and CleanTech (aka Green Technologies) - areas of water, environment and low carbon footprint processing.

At a recent international Venture Capital Conference it was openly stated that “Energy” is the new currency. By way of example Solar Array Ventures, Inc. (SAVE) recently announced an investment of \$210 million in the first phase of what will be the company's new headquarters and first manufacturing plant, to be located in the Cordero Mesa business park on the western edge of Bernalillo County , New Mexico . The investment is expected to return 1000 jobs within 5 years.

President Obama's announcement of major investment in energy, plus new programs in manufacturing and education reflect similar announcements in the other major economies.

Such revitalisation strategies bode well for the players in micro and nanotechnology. Technologies that play into all areas of endeavour.

The challenge, and thus opportunity, for our MANCEF community is how best to contribute towards securing economic stability and growth through leveraging this investment and further accelerating the uptake of these technologies in the evolution of future manufacturing prosperity.

COMS2009 Copenhagen

MANCEF's 14 th International COMS Conference in Copenhagen , Denmark Aug 30 - Sept 4, 2009 is your opportunity to hear first hand and meet the researchers and businesses leaders who are responding to these new challenges.

It is a world in change, a world of opportunity.

Executive Board



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[Clive](#)

[Davenport](#)
CSIRO Future
Manufacturing Flagship



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[Robert Giasolli](#)
Nanowise



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Technopreneur Ltd



VP Asia/Pacific
[Jane Nial](#)

Clive Davenport



Aug 30 -
Sep 04, 2009
Copenhagen,
Denmark

www.mancef-coms2009.org

COMS2009 - Abstract Submission Deadline June 30, 2009!

Those interested in giving a presentation are invited to submit a short abstract to abstracts@mancef-coms2009.org

Abstract guidelines are available at <http://www.mancef-coms2009.org/call-for-papers>

COMS2009 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 and Integration
- Manufacturing Challenges
- Packaging
- MEMS Components
- Functional Nano
- Nano Structure
- Sensors

Invited Speakers (Confirmed)

Gabriel Aeppli, London Centre for Nanotechnology, United Kingdom
Yechezkel (Chezy) Barenholz, Hebrew University-Hadassah Medical School, Israel
Robert P. Bennett, Technesium TC, United Kingdom
Thomas Bjørnholm, University of Copenhagen, Denmark
Anja Boisen, Technical University of Denmark, Denmark
José-Lorenzo Vallés Brau, The European Commission
Clive Davenport, CSIRO, Australia
Michael Egholm, Roche Diagnostics Corporation, USA
Peringe Grennfelt, IVL, Sweden
Lena Gustafsson, VINNOVA, Sweden
Liu Ming, Chinese Academy of Sciences, China
Karen Laigaard, Association of European Science & Technology Transfer

IIRD - Victoria



Founding Past President
[Bob Warrington](#)
Michigan Tech University

no image available
Founding Past President
[Steve Walsh](#)
University of New Mexico



Treasurer
[James Wylde](#)
CSM Analytical



Board Member
[Dr. Volker Saile](#)
Universität Karlsruhe
Institute for Microstructure
Technology

Professionals

Edward Kälvesten, Silex Microsystems AB, Sweden
Johan Liu, Chalmers University of Technology, Sweden
Miriam Luzinik, MESA+, The Netherlands
Robert Mehalso, Microtec Associates Inc., USA
Sean Neylon, Colibrys SA, Switzerland
Walter Riess, IBM, Zürich Research Laboratory, Switzerland
Huub (H.W.M.) Salemink, Delft University of Technology, The Netherlands
Yosi Shacham, Tel-Aviv University, Israel
Aldrin E. Sweeney, University of Central Florida, USA

Key Dates:

Abstract submission	Author Notification	Manuscript Deadline	Early Bird Rate
June 30, 2009	July 15, 2009	July 27, 2009	June 30, 2009

The conference venue is the [Radisson SAS Falconer Hotel](#); a modern hotel-, meeting- and event-centre.

For more information visit www.mancef-coms2009.org

MANCEF News

MANCEF Executive board member **Carol Steele** has stepped down from her position due to time constraints. We would like to thank Carol for her years of service with the board. Carol has been an active MANCEF member since 2001, and was instrumental in the success of COMS2006 in St. Petersburg FL, as well as her tireless work on the exhibition committee for numerous other events. Carol's commitment, enthusiasm and knowledge will be missed. We wish Carol all the best in her future endeavors!

MANCEF would like to welcome **Bob Mehalso** to the Executive Board. Bob has been a long time GAC member, and perennial favorite at COMS where his presentations have impressed and inspired since 1994. Bob's energy and enthusiasm are always apparent whenever he speaks about commercializing MNT. We look forward to working with such a respected leader in the micro-nano community!

MANCEF president **Clive Davenport** is now the Director of Australia's [CSIRO Future Manufacturing Flagship](#).

The Future Manufacturing Flagship's aim is to incubate new and significantly transform existing high value-adding, export-oriented sectors to improve the future competitiveness of Australian manufacturing.

As the Flagship Director, Clive is responsible for setting research priorities, overseeing a large portfolio of research projects and commercial pathways, and managing many partnerships and collaborations, in areas as diverse as clean technologies; flexible electronics; biomedical manufacturing and nanosafety.

We wish you continued success in your new endeavor!

Events



Board Member
[Jan Wauters](#)
Flanders Investment & Trade, New York



Board Member
[Robert Mehalso](#)
Microtec Associates

MANCEF Charter Members



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

HARMST 2009

The 8th International Workshop on High-Aspect-Ratio Micro-Structure Technology

June 25 - 28, 2009

Saskatoon, Canada

Micro Nano Breakthrough Conference

September 21 - 23, 2009

Portland, Oregon

Nano Network of New Mexico - Nano Convergence

Albuquerque, NM

October 26, 2009

New Bi-National Energy Future: Biofuels & Solar Policy Summit

October 27, 2009

Albuquerque, NM

Micronarc Alpine Meeting (MAM 2010)

Equipment for microproducts

January 20-22, 2010

Villars-sur-Ollon, Switzerland



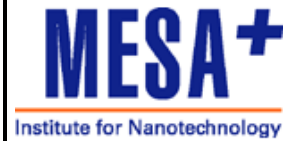
Mission:

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.

Conference Summary Report



2nd Edition International

The Nano Tech 2009 Exhibition & Conference, Tokyo , Japan

Courtesy of MANCEF's affiliate ANBF

The Nano Tech 2009 Exhibition & Conference, Tokyo , Japan (February) is recognised as the world's largest international nanotechnology exhibition and conference.

Organisations attending identify business opportunities, develop business networks, research partnership opportunities, conduct market research and increase international representation and global competitiveness in nanotechnology.

Despite the economic downturn, attendance to the annual event recorded 47,272 visitors during the 3 days. This represents a small decrease in attendance from Nano Tech 08, which saw 49,365 visitors. The international scope of the expo saw an increase on previous years, with 606 organisations representing 21 countries and regions exhibiting at 909 booths.

Nano Tech provides a snapshot of the status of international nanotechnology manufacturing. Unlike many nanotechnology conferences, the focus is on companies intent on partnering, commercialising, marketing and selling products. The service industries – lawyers, investors, consultants – play a minor role.

The theme of Nano Tech 2009 was “Green Nanotechnology -Towards the Next Innovation”. Exhibiting companies and organizations involved in areas ranging from nano-materials to evaluation and measurement displayed environmental products and technologies that leverage the unique potential of nanotechnology. The expo saw a strong trend towards research and commercial outcomes using lithography, indentation and printing. There was also an increased emphasis on integrated systems or materials developed for specific applications rather than generalist “nano solutions”.

The Korean and Taiwanese national pavilions were again as large as those of the leading Japanese companies and ministries. Europe was well represented with government supported exhibitions from the UK , Germany , Finland , Spain , Switzerland , Italy , Netherlands and Flanders . Canada was represented by a Pavilion however the USA had limited representation.

The Australian Pavilion maintained its tradition of holding its Wine Tasting event on the second day of the Expo with several hundred attendees visiting the Pavilion during a 2 hour period providing an excellent forum for business networking.

The Nano Tech 2009 Exhibition and Conference ran concurrently with the following events:

- **Nano Bio Expo** ; biotechnology, nanotechnology and business,
- **ASTEC** ; specialist exhibition for surface technology and treatment and processing,
- **METEC** ; surface finishing expo,
- **Neo Functional Materials** ; electronics and printing materials,
- **Converttech Japan** ; conversion technologies;
- **Printable Electronics**

The **2nd Conference of International Nanotechnology Business Associations** was hosted by the Japanese NBCI (National Business Creation Initiative) during Nano Tech 09.

Conference topics included:

Micro-Nano Roadmap Chapters Available



[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 MST](#)
- [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:

- Efficient Systems - development of nanotechnology and nanoproducts?
- Framework and plans to deal with environment, health and safety (EHS) issue. Are they satisfactory - if not, what additional action is needed ?

Approximately 800 delegates attended **NanoBiz** , the NBCI International Networking Reception comprising international business leaders, Nano Tech 09 delegates and government officials.

Japan , Australia , Canada , Netherlands , Belgium , Spain , Italy , England , Korea and Germany contributed beverage table displays providing the lubrication for interactive dialog between attendees.

Key insights included:

- **Cleantech and Environmental Technologies** were again prominent. The theme of Nano Tech 2009 was “*Green Nanotechnology-Towards the Next Innovation*” . Green flags marked booths exhibiting green technologies, ranging from nano-materials to evaluation and measurement, showcasing environmental products and technologies that leverage the unique potential of nanotechnology.
- There is still product emphasis on **materials science and manufacture**, with an increased emphasis on systems and applications for materials eg. printable solar panels, barrier material films for flexible electronics, precision machining for nano-tooling etc. As in previous years, an impressive array of particles and nanostructured materials, surface coatings and treatments, composite, and nanotube materials and production machinery was on display.
- There was considerable interest in **nanotechnology education** . All nations have initiatives.
- **European firms and nations** had a major presence, in particular Germany was showcased by a German Pavilion (882 square metres). Government supported exhibitor Pavilions from the UK , Germany , Finland , Spain , Switzerland , Italy , Netherlands and Flanders .
- The **Korean and Taiwanese** national pavilions were as large as those of the leading Japanese companies and ministries.

Equipment Maker News

EV Group

29 April 2009 [EV Group gains Amberwave Systems as a new customer for bonding and plasma activation solutions](#)

22 April 2009 [EV Group realizes strong first half year in fiscal 2009](#)

01 April 2009 [EV Group and CEA/Leti Partner to accelerate adoption of TSV and 3D Integration Technology](#)

17 March 2009 [EV Group receives order for photoresist developer from the University of Tokyo](#)

[Read more from EVG](#)

Oerlikon

01 May 2009 [Oerlikon Solar Broadens It's Financial Team](#)

23 April 2009 [Global recession causes sharp decline of business volume](#)

[Foundries](#) and [Packaging & Assembly](#)

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 channels.

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

For more information visit our [website](#)

Micro/Nano Resources:

[MANCEF Glossary](#) of Micro/Nano terms



Browse the latest jobs at [TinyTechjobs](#)

02 April 2009 [Sale of Oerlikon Esec closed](#)
26 March 2009 [Oerlikon repositions and streamlines operations](#)

[Read more news from Oerlikon](#)

Surface Technology Systems

07 April 2009 [STS receives multi tool order from Turkey's new Institute of Materials Science and Nanotechnology \(UNAM\)](#)
26 March 2009 [STS installs CPX cluster tool at MiPlaza](#)
29 Oct 2008 [STS and SPP announce the formation of SPP Global Business Services](#)

[Read more from STS](#)

SÜSS MicroTec

28 April 2009 [SÜSS MicroTec Test Systems Named Exclusive Supplier of 300 mm Characterization and Reliability Test Solutions](#)
22 April 2009 [SÜSS MicroTec Receives Multiple Orders from Nemotek Technologie for Wafer-Level Camera Production to use in Portable Applications](#)
14 April 2009 [SÜSS MicroTec Test Systems Chosen for Advanced Testing Laboratory at UAlbany NanoCollege](#)
17 Feb 2009 [SÜSS MicroTec and iX-factory Join Forces for the Development of Microfluidics and Integrated Optical MEMS Solutions](#)

[Read more news from SÜSS](#)



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.



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