



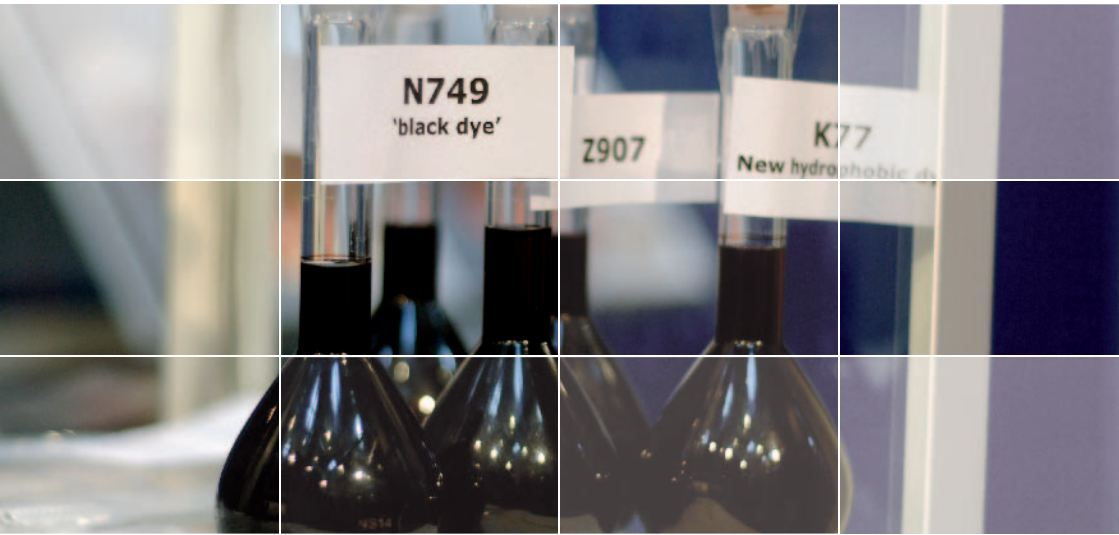
Rapperswil, Switzerland, 25th – 26th November 2009

7th NanoEurope Symposium 2009

Moving Nanotechnology to Market

5th NanoRegulation Conference No data, no market?

Challenges to nano-information and nano-communication



Main Organiser



Co-Organiser



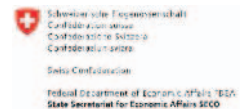
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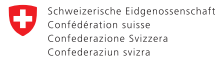
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Introduction

For the last seven years, the annual NanoEurope became one of the most prominent nanotechnology conferences in Europe. As nanotechnology continues to fuel growth in many industrial application businesses, NanoEurope 2009 again updates you on the latest technical developments in promising application fields as well as on the best strategies for a successful commercialisation of nanotechnology.

The 7th NanoEurope 2009 will be organized in three plenary sessions - accompanied by a foyer exhibition and a poster session – and will be held in parallel with the 5th NanoRegulation Conference:

November 25, 2009

Parallel sessions: *"CEO-Forum"*; *"Nanocoatings and ultrathin films"* and *"NanoRegulation Conference"*

November 26, 2009

Session: *"Nanocomposites and layer-by-layer structures"* and *"NanoRegulation Conference"*

November 25 and 26, 2009

"NanoSpot" foyer exhibition and *"Poster Session"*

Swiss Scientific Committee

Hans-Joachim Güntherodt, University of Basle, Switzerland

Louis Schlapbach, Director NFP 62: Smart Materials, Switzerland

Alex Dommann, CSEM SA, Neuchâtel, Switzerland

Heinrich Hofmann, Swiss Federal Institute of Technology Lausanne, Switzerland

Paolo Ermanni, Swiss Federal Institute of Technology Zurich, Switzerland

Jens Gobrecht, Paul Scherrer Institute PSI, Switzerland

Christofer Hierold, Swiss Federal Institute of Technology Zurich, Switzerland

André Bernard, Interstate University of Applied Sciences of Technology Buchs NTB, Switzerland

Martina Hirayama, University of Applied Science Zurich, Switzerland

Yves Leterrier, Swiss Federal Institute of Technology Lausanne, Switzerland

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International Scientific Committee

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Günter Tovar, Fraunhofer-Verbund Nanotechnology Stuttgart, Germany

Ulrich Rüdiger, University of Constance, Germany

Johannes Edlinger, University of Applied Science Vorarlberg, Austria

NanoEurope Symposium Programme

Session CEO-Forum: commercialisation of nanotechnology in co-operative networks

Co-operation more than ever fuels successful deployment and commercialization of cutting edge nanotechnology. The CEO-Forum supplies an illuminating discussion on the role that venture capital and other financing play on success factors in co-operation among science, start-ups and established companies. Technology leaders, academic institutions and financing intermediaries show how they cooperate to achieve sustainable business success.

Session Nanocoatings and ultrathin films: from inorganic to organic

Nanocoatings offer a potential for innovation in a wide variety of applications due to a big research driving force behind since many years. The session presents new technologies in processing and characterising of nanocoatings by highlighting their value and benefit in industrial applications. Presentations covering organic and inorganic coatings will provide detailed information among others on high performance biointerfaces, gas barriers, nanoscaled multilayers for high-precision joining, diamond coatings and those with improved tribological properties

Competence Centre for Materials Science and Technology (CCMX) Technology Apéro

The Technology Apéro will be focused on novel analytical methods for the characterisation of thin nanostructured layers and nanocomposites. The newest developments in characterisation methods as well as of equipment will be presented. MaCH2 (Materials Characterisation in Switzerland (CH)) a database which gives public access to the equipment at all material science relevant institutes of the ETH domain will be a special topic.

Session Nanocomposites and layer-by-layer structures: from particles to functional systems

The potential of polymer nanocomposites to open new classes of high performance materials and materials with novel/smart functions is given due to the variety of different filler materials. It is the endeavour of this session to guide from soft matter physics to functional nanostructured materials, to inform e.g. about processing of nanodispersed composites, and the influences of nanoparticles on the processing routes, and to give an understanding about modern approaches of multi-scale modeling of nano-composites.

Bavarian Technology Lunch

The Technology Lunch will give a short overview about the Bavarian Nano Cluster's main activities. In three lectures outstanding Bavarian scientists will present important directions of research and development and discuss results from the nanostructuring of innovative polymere foams, and from dye coating of inorganic cores and from a measurement process for the determination of the degree of nanoparticle dispersion by rheological data.

Who should attend

Entrepreneurs and decision-makers from industry and R&D institutions, researchers and engineers as well as managers of the financial industry wishing to gain an overview over new technology, processes and specific know how.

25.11.09 – Session CEO-Forum

08.45	Inscription with Coffee
09.20	Welcome note Nano-Cluster Bodensee / Bavarian Cluster Nanotechnology
09.30	Title to be announced Tim Harper, Cientifica Ltd., UK
10.00	Financing strategies for nanotechnology companies Marko Beckmann, Nanostart AG, Germany
10.30	The legal framework for the production and use of nanomaterials and nanotechnology Eckhard Pache, University of Würzburg, Germany
11.00	Coffee Break
11.30	Title to be announced Peter Nagler, Evonik Industries, Germany
12.00	Open innovation in complex value chains towards novel optoelectronic applications Volker Hilarius, Merck KGaA, Germany
12.30	Lunch, Poster and Foyer Exhibition
14.00	Innovation at Altana: Bringing Nanotechnology into the Market Michael Berkei, Altana GmbH, Germany
14.30	Commercialization of R&D results and Protection of Intellectual Property Jeannette Wibmer, Badertscher Attorneys at Law AG, Switzerland
15.00	Title to be announced Andrew Maslaveckas, BioCure Inc., Switzerland / USA (to be confirmed)
15.30	Coffee Break
16.00	Title to be announced Dirk Haft, attocube systems AG, Germany
16.30	Title to be announced Axel Zweck, Future Technologies Division of VDI-TZ, Germany
17.00	CCMX Apéro, Poster and Foyer Exhibition
19.30	Networking Dinner: Dinner Speech Franziska A. Tschudi, WICOR Holding AG

25.11.09 – Session Nanocoatings and Ultrathin Films

08.45	Inscription with Coffee
09.30	Welcome note Rector of the University of Applied Science HSR / Nano-Cluster Bodensee / MatSearch Consulting
09.45	Hybridization of synthetic polymers and biopolymers for creation of high-performance biointerface Yukio Nagasaki, Tsukuba Research Center for Interdisciplinary Materials Science (TIMS), Japan
10.15	Engineering materials from the bottom up – Self-assembled peptide coatings Rudy Koopmans, Dow Europe GmbH, Basic Plastics TS&D, Switzerland
10.45	Coffee Break, Poster and Foyer Exhibition
11.15	Gas barrier coatings Derek Illsley, Sun Chemical, United Kingdom
11.45	Reactive nanoscaled multilayers for high-precision joining Andreas Leson, Fraunhofer Institute Material and Beam Technology, Germany
12.05	Synthesis, properties and applications of nanoscaled diamond Hans-Jörg Fecht, University of Ulm, Institute of Micro and Nanomaterials, Germany
12.25	Lunch, Poster and Foyer Exhibition
14.00	Nanoscaled organic-, inorganic dispersions in electroless Ni deposits – measurement methods and tribological properties Wolfgang Siegert, Collini Wien GmbH, Austria
14.20	Nanocharacterization of thin films Alex Dommann, CSEM SA, Switzerland
14.40	Nanometer scale structuring of titanium oxide surfaces by anodisation in the presence of particles Arthur Ganz, Swiss Federal Institute of Technology, Laboratory of Powder Technology, Switzerland
15.00	AFM study of thin film of thermotropic, calamitic and discotic azomethines and polyazomethines Andrzej Sikora, Electronical Institute, Division of Electrotechnology and Materials Science, Poland
15.20	The Current Status of Nanotechnology in Canada Hamid Mostaghaci, Counsellor, Science and Technology, Canadian Embassy, Berlin, Germany
15.30	Coffee Break, Poster and Foyer Exhibition
16.00	CCMX Technology Apéro: Introduction to CCMX Nathalie Jongen, CCMX, Switzerland
16.10	Pseudoplastic nanostructured ceramic surface layers with high adhesion Heinrich Hofmann, Swiss Federal Institute of Technology Lausanne, Laboratory of Powder Technology, Switzerland
16.25	High-temperature photonic structures Valery Shklover, Swiss Federal Institute of Technology Zurich, Laboratorium für Kristallographie, Switzerland
16.40	Characterisation of nanostructured layers by focused ion beam Marco Cantoni, Swiss Federal Institute of Technology Lausanne, Switzerland
16.55	Characterisation of synthetic fibers using the atomic force microscope Joern Lübben, Empa Swiss Federal Laboratories for Materials Testing and Research, Switzerland
17.10	Modern analytical tools and methods for surface characterisation Beat Keller, Empa Swiss Federal Laboratories for Materials Testing and Research, Switzerland
17.30	CCMX Apéro, Poster and Foyer Exhibition
19.30	Networking Dinner: Dinner Speech Franziska A. Tschudi, WICOR Holding AG



26.11.09 – Session **Nanocomposites** and Layer-by-Layer Structures

08.30	Inscription with Coffee
09.00	Welcome note by Nano-Cluster Bodensee and MatSearch Consulting
09.10	From soft matter physics to functional nanostructured materials Peter Schurtenberger, Adolphe Merkle Institute, University of Fribourg, Switzerland
09.40	Processing of nanodispersed composites, influences of various nanoparticles on the processing routes to achieve better mechanical and other physical properties – application and future markets Johanne Denault, Industrial Materials Institute, Canada
10.10	Multi-scale modelling of nanocomposites with DIGIMAT Roger Assaker, e-Xstream engineering SA, Belgium
10.50	Coffee Break, Poster and Foyer Exhibition
11.20	Bavarian Technology Lunch: Presentation of the Bavarian Cluster Nanotechnology Matthias Nüchter, Nanoinitiative Bayern GmbH, Gerbrunn, Germany
11.30	Innovative Polymere Foams through Nanostructuring Volker Altstädt, Institute of Polymer Materials, University of Bayreuth, Germany
12.00	Functional Nano Particles as Optical Components Heinz Langhals, Department of Chemistry, LMU University of Munich, Germany
12.30	Determination of the degree of nanoparticle dispersion by rheological measurements Helmut Münstedt, Institute of Polymer Materials, Department of Materials Science, Friedrich-Alexander University of Erlangen-Nürnberg, Germany
13.00	Lunch, Poster and Foyer Exhibition
14.20	Tailored Interfaces – tuned mechanical properties Sabine Seidler, Technical University Vienna, Austria
14.50	Additives to enhance manufacturing and long-term performance of nanocomposites Rudolf Pfaendner, Ciba Lampertheim GmbH, Research Center Protection and Stabilization, Germany
15.20	Production of masterbatches with functionalized carbon nanotubes – from science to market Bryan T.T. Chu, Empa Swiss Federal Laboratories for Materials Testing and Research, Switzerland
15.40	From nanoparticles to composite structures and beyond – the idea of a virtual institute of nanotechnology in polymer composites Ulrich Riedel, German Aerospace Center, Institute of Composite Structures and Adaptive Systems, Germany
16.15	Farewell at the Foyer Exhibition

5th NanoRegulation Conference

No data, no market? – Challenges to nano-information and nano-communication

A challenge for nano-regulators and industry

Consumers want to know what they buy, retailers want to know what they sell, processors and recyclers need to know what they handle. However, the relevant nanospecific information often does not reach these recipients because there is no obligation for transfer of nanospecific information. Nano-materials are likely to become **"black boxes" in terms of information; as a consequence, consumer confidence decreases** and politicians, NGO and consumer advocates are calling for **transparency, declaration and labelling**.

The **European Parliament** unmistakably stated in its 2009 report on regulatory aspects of nanomaterials: **"No data, no market"**. The members of the European Parliament wanted **manufactured nanomaterials to be treated as new substances**, requiring extensive safety testing and **mandatory labelling**.

The **first day of the 5th NanoRegulation Conference** will provide a comprehensive overview on the political and regulatory background of nanotechnology governance on the national, European and global level. In the light of the European Parliament calling for adaptations of the regulatory framework regarding manufactured nanomaterials, what will be the strategy of the European Commission? What nano-specific information is indispensable for authorities and consumers? What instruments for communication and transfer of nano-specific information along the value chain are available?

Nano-specific information within the value chain: *Must have or nice to have?*

REACH and other European Chemicals Acts clearly shift the responsibility to ensure safe products to manufacturers and those who put them on the market. However, it remains unclear what kind of nano-specific information is needed at the different stages in the product life cycle, and how it should be delivered.

The **second day of the 5th NanoRegulation Conference** will bring together the different members of the nanotechnology value chain to discuss who needs what kind of information. **Three workshops** will offer the participants the opportunity to point out their opinions, discuss them and suggest strategic guidelines for a feasible and effective information policy along the value chain and towards external stakeholders.

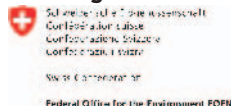
Who should attend

The NanoRegulation conference is addressed to executive representatives from international regulatory bodies, industry and insurance companies, scientists, NGO, associations, politicians, the media and the interested public.

Organizer



Patronage



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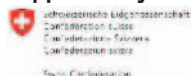
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NanoRegulation

25.11.2009: Political and societal needs and expectations towards “nano-information”

Part 1	Setting the scene: Political and regulatory background
13.25	European Commission: The existing regulatory framework and its appropriateness for nanotechnologies Gustaaf Borchardt, DG Environment, Director of Directorate D: Water, Chemicals and Cohesion, EU
13.50	“No data, no market”: European Parliament’s regulatory requirements for manufactured nanomaterials Carl Schlyter, Green Party EU-Parliament, EU*
14.15	OECD: Nano-information and communication on a global level Peter Kearns, Head of Nanosafety Team, OECD Environment Directorate, United Kingdom
15.00	Coffee break, poster presentation and exhibition
Part 2	Stakeholder’s needs and expectations
15.30	Product registration and public communication: What authorities need to know and what they can tell the public Prof. Dr. Rolf F. Hertel, Federal Institute for Risk Assessment (BfR), Germany
15.55	Consumer’s needs: What consumers want to know about nanotechnology Laura Degallaix, European Consumer’s Organisation BEUC, Belgium
16.20	Supporting stakeholder’s needs and expectations through standardization Peter Hatto, Chairman of ISO TC 229, United Kingdom
17.00	Coffee, get together, networking (speaker’s dinner: ca. 19.00)

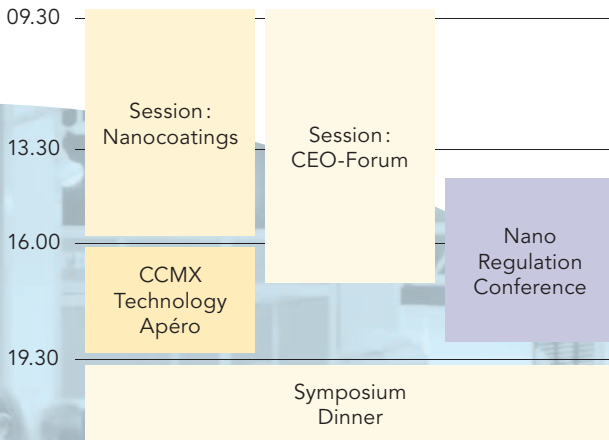
26.11.2009: Best practices in nano safety information and public communication

Part 3	“From cradle to grave”: Nano in the flow of information along the value chain
09.10	Nanotechnology: Trade off between innovation, economic potential and safety concerns Eric Scheidegger, Ambassador, Deputy Director of the Swiss State Secretariat for Economic Affairs SECO, Switzerland*
09.35	Manufacturing nanomaterials: What safety data and product information are provided by a manufacturer? Dr. Barbara-Christine Richter, Bayer MaterialScience AG, HSEQ, Germany
10.00	Nanotechnology within plastics: What nano-specific information is required by processors? Dr. Rüdiger Baunemann, Plastics Europe, Germany
10.25	Recycling nanomaterials: The challenges that nanomaterials present to the recycling industry Bernard Merckx, President European Plastics Recyclers, Netherlands*
10.50	Nanoparticles in consumer products: TA Swiss study on nanotechnology in the food sector Andreas Hermann LL.M., Institute for Applied Ecology Darmstadt, Germany
11.30	Lunch (exclusive for NanoRegulation participants), poster presentation and exhibition
Part 4	Better safe than sorry – but how? Workshop sessions (3 parallel workshops)
13.30	Workshop 1: Consumer Products: Nano-labelling in consumer products Workshop 2: Industry / nanomaterials: HSE relevant information flow to downstream users and authorities Workshop 3: Material Safety Data Sheet: Adapting the MSDS to nanospecific information requirements
15.15	Coffee break, poster presentation and exhibition
15.30	Synthesis and outlook: Workshop results and conclusions: “Strategic guidelines for a feasible and effective information policy along the value chain and towards external stakeholders”
16.40	Conference summary, synthesis and outlook Dr. Christoph Meili, CEO The Innovation Society Ltd.

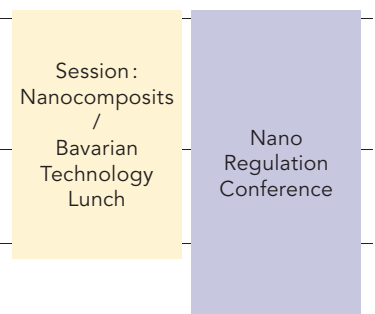
* to be confirmed

Programm Overview

Wednesday 25 November 2009



Thursday 26 November 2009



Symposium Venue



Hotel Schwanen

Session „CEO-Forum“
Symposium Dinner

HSR Campus

- 1 NanoSpot Foyer Exhibition
- 2 Sessions:
 - Nanocoatings
 - Nanocomposites
 - CCMX Technology Apéro
 - Bavarian Technology Lunch
- 3 NanoRegulation Conference

Admission

The admission to the symposium and exhibition can be purchased either for one day or for two days. Participants should make the choice for the November 25, 2009 between the CEO-Forum, the session on Nano-coatings or the Nanoregulation Conference, on November 26, 2009 between the session on Nanocomposites and the Nanoregulation Conference.

Admission Fees

Excl. VAT, incl. symposium proceedings, coffee breaks and lunch	Pre-Registration up to september 9, 2009		Registration from september 10, 2009	
	CHF	EUR	CHF	EUR
One-day flat charge	340.–	230.–	400.–	270.–
Two-day flat charge	630.–	420.–	690.–	470.–
Two-day flat charge for short oral presenter and poster presenter	290.–	200.–	320.–	220.–
One-day flat charge for students*	65.–	45.–	65.–	45.–
Two-day flat charge for students*	130.–	90.–	130.–	90.–
Networking Dinner	110.–	75.–	110.–	75.–

*For **bachelor** and **master students** there is no symposium fee, but a charge for the coffee break, lunch and proceedings package (Please send a copy of the student legitimation to the fax N°: +41 71 274 73 86. NanoRegulation Conference does not offer reduced student fees.

Please note: Symposium tickets are only available by online registration on <http://www.nanoeurope.com>. The Symposium Dinner ticket may be ordered either by online registration or by sending an email to info@nanoeurope.com

Cancellation Policy

All cancellations received in writing (Fax N°. +41 (0)71 274 73 86) by October 9th, 2009 will be refunded, with 100 CHF/ 75 EUR being deducted for administrative expenses. For cancellations received in writing from October 10th, 2009 through November 6th, 2009, one half of the registration fee will be refunded. No refunds will be made after November 6th, 2009.

Contact

Nano-Cluster Bodensee

Jörg Güttinger
Lerchenfeldstrasse 5
CH-9014 St.Gallen
P +41 71 274 73 81
F +41 71 274 73 86
info@nanoeurope.com
www.nanoeurope.com

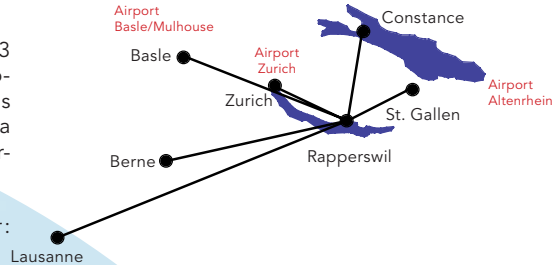
General Information

Venue

The NanoEurope will be held on the excellently equipped campus of the University of Applied Science (Hochschule für Technik) Rapperswil HSR, which is directly adjacent to Rapperswil railway station. (Zürich-Rapperswil (S5, S7 and S15) within 35/40 min).

Arrival by Car from Zurich: Coming on the A3 motorway take the Pfäffikon SZ exit and head towards Rapperswil. The nearest public parking is about a ten minutes walk away. There are only a few paying parking places available in the university area (max. 2 hours). (<http://www.hsr.ch>)

Please find more details about Rapperswil under:
<http://www.zuerichsee.ch>



Accommodation: Rooms can be booked under: <http://hotels.zuerichsee.ch>

Symposium Dinner

All attendees of the NanoEurope Symposium 2009 are cordially welcome to join the official symposium dinner at 25 November 2009 at 7.30 pm. Hotel Schwanen, Seequai 1, CH-8640 Rapperswil, Switzerland.

Participation is by registering on 23 October 2009 at the very latest and paying a fee of CHF 110 / EUR 75 (excl. VAT) per ticket. Franziska A. Tschudi, CEO WICOR Holding AG will give the keynote dinner speech.

Poster Session

Proposals are invited for contributions describing results of theoretical, empirical, conceptual or experimental research and development. For further information please check the Guidelines for Poster Presenters: <http://www.nanoeurope.com> (in the Poster Session – text part).

AWARD opportunity

NanoEurope and its sponsors will offer cash awards for the best poster contributions. Abstracts will be reviewed by a Jury and the winners will be announced during the poster session on november 26, 2009.

Deadline for poster abstract submission is 31 september 2009

Session Related Information

CCMX

Heinrich Hofmann
CH-1015 Lausanne
heinrich.hofmann@epfl.ch

Mat Search Consulting

Margarethe Hofmann
CH-1009 Pully
info@matsearch.ch

Nanoinitiative Bayern GmbH

Matthias Nüchter
D-97218 Gerbrunn
info@nanoinitiative-bayern.de

The Innovation Society

Christoph Meili
CH-9014 St.Gallen
Christoph.Meili@unisg.ch