

2007

NANO MEETS BIO

Seldom has a technology offered such overwhelming potential as nanotechnology does in so many fields, including automobiles, chemicals and pharmaceuticals, information technology and optics. Economies depend on the competitiveness of their industries which, in turn, depend on the success of new technologies in driving the development of new products. Nanotechnology is certainly the most promising technology of the 21st century. It will be the century where a plethora of products will emerge from the “nanocosmos”.

SOLIQS, the global drug delivery business of Abbott, is organizing an international symposium entitled “Nano meets Bio”, for the benefit of the scientific community, industry representatives and journalists. The symposium is intended to initiate and promote interdisciplinary exchange and platforms for information flow between the key players.

At the symposium, highly regarded international scientific experts from various countries and institutions will present their results in selected fields of nanotechnology. Applications in the pharmaceutical environment will be demonstrated and discussed.

Only if research, development and application go hand in hand will we see the lifecycle of nanotechnology prosper in innovation to enhance and revolutionize tomorrow’s pharmaceutical products.

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www.soliqs.com



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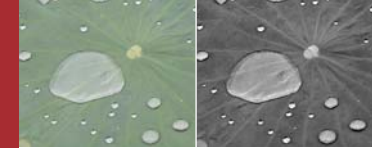
Nanotechnology Symposium

June 21st and 22nd

Ludwigshafen
Abbott GmbH & Co. KG

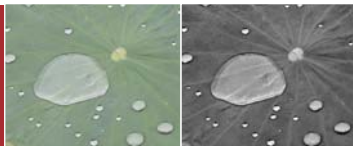
Soliqs
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The Global Drug Delivery
Business of Abbott



*“When patterns are broken,
new worlds emerge.”*

T. Kupferberg (American author and poet)



June 21st

Welcome Reception Dinner
and Volwiler Award Ceremony

June 22nd

Nanotechnology Symposium

Abbott GmbH & Co. KG, Ludwigshafen, Lecture Hall

Opening

- 9:00 **Dr. Jörg Breitenbach**
Chairman and
Head of SOLIQS
- 9:15 **Doris Ahnen**
Patron and
Rhineland-Palatinate Minister for Science,
Education, Culture and Youth

Lectures A:

Advanced polymeric and nanostructured materials for drug delivery

- Characterization of nanocarriers and their interactions with biological systems
- Target-oriented manipulation of cell functions and pathological processes
- Novel fields of application in regenerative medicine, tumor targeting and tissue engineering

- 9:30 - 10:00 **Prof. Dr. Thomas Kissel**
(Philipps-University Marburg)
Nanocarriers for pulmonary delivery
- 10:05 - 10:35 **Prof. Dr. Stefan Bräse**
(University Karlsruhe)
Drug delivery and beyond: New vehicles and cargos for bioconjugation
- 10:40 - 11:10 **Prof. Dr. Manfred Schmidt**
(Johannes Gutenberg-University Mainz)
Complexes of DNA with oppositely charged polyelectrolytes of various branching topologies and charge densities
- 11:15 - 11:45 **Prof. Dr. Ernst Wagner**
(Ludwig-Maximilians-University Munich)
Programmed drug delivery: Tumor targeting strategies

Lectures B:

Advanced analytical methods to promote the understanding of interactions of nanostructured materials in biological systems

- Techniques to characterize nanocarriers and investigate dynamic processes in living cells
- Cellular, organ and animal models

- 13:20 - 13:50 **Prof. Dr. Anne Ulrich**
(University Karlsruhe)
Optimization of Trojan peptides for the delivery of drugs and nanoparticles, based on NMR observations
- 13:55 - 14:25 **Dr. Phillip Rosenstiel**
(Christian-Albrechts-University Kiel)
Novel model organisms for intestinal barrier function: Lessons from basal metazoans
- 14:30 - 15:00 **Prof. Dr. Stefan Ehlers**
(Christian-Albrechts-University Kiel)
Mouse models of experimental tuberculosis – effects and side-effects of anti-inflammatory strategies

Lectures C:

New strategies and concepts in therapeutic disease treatment: Potential challenges in the field of nanomedicines

- 15:25 - 15:55 **Prof. Dr. Stefan Schreiber**
(Christian-Albrechts-University Kiel)
Molecular etiology of complex infections/diseases – a way to develop new diagnostics?
- 16:00 - 16:30 **Dr. Oliver Eickelberg**
(Justus-Liebig-University Giessen)
Therapeutic options in fibrosis: Targeted siRNA therapy in the treatment of lung fibrosis

Lectures D:

Nanotechnology, Society and Industry

- 16:35 - 17:05 **Dr. Stephan Lingner**
(Europäische Akademie GmbH)
Rational Risk Assessment at the nano-level
- 17:10 - 17:40 **Prof. Dr. Vincent Lee**
(Chinese University of Hong Kong)
The Pharmaceutical Enterprise: On the verge of a revolution?



News

Abbott/SOLIQS Host International Nanotechnology Symposium

Ludwigshafen: 21./22. Juni 2007 – In a bid to encourage communication in the research community, the Abbott business unit Soliqs organized an international nanotechnology symposium entitled "Nano Meets Bio" in Ludwigshafen under the patronage of Doris Ahnen, the Rhineland-Palatinate Minister for Science and Research, Education, Youth Affairs and Culture.

Nanotechnology is one of the 21st century's most promising technologies, offering new opportunities in product development. Nanotechnology is concerned with research and construction in extremely small structures: a nanometer is a millionth of a millimeter. Nanotechnology is already in use in a range of areas as diverse as the automotive industry, chemical industry, information technology and healthcare, where the term nanomedicine is used.

In addition to the presentations at the nanotechnology symposium, a key element was information-sharing with representatives of the pharmaceutical industry. Experts of international repute presented new research data from the world of tiniest parts – the so-called nanocosmos – and demonstrated potential applications and prospects in the following key areas:

- New polymer and nanostructures for pharmaceutical manufacture
- Innovative characterization methods to promote an understanding of nanostructure interaction in biological systems
- New strategies and concepts for the treatment of disease: the challenges for nanomedicine
- Nanotechnology and society.

"Abbott has been investigating the opportunities and applications afforded by nanotechnology for a number of years now. The SOLIQS division is a motor and promoter in the development of new dosage forms – by nanotechnology and other means – for the good of patients. The symposium offers a platform for scientific exchange between scientists, developers and users. Interaction enables nanotechnology to be included from the start in concepts for tomorrow's innovative pharmaceutical products. There is a deliberate emphasis on the inclusion of representatives of German universities. We are delighted in particular to have won the support of the Rhineland-Palatinate ministry for this new approach of a symposium," said Dr. Jörg Breitenbach, Head of the SOLIQS division.

Excerpt Mrs Ahnen (asked for on May 21, 07)