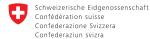
EMPA – MATERIALS AND TECHNOLOGIES FOR A SUSTAINABLE FUTURE

As an interdisciplinary research institute of the ETH Domain, Empa, the Swiss Federal Laboratories for Materials Science and Technology, conducts cutting-edge materials and technology research. Empa's R&D activities focus on meeting the requirements of industry and the needs of society, and thus link applications-oriented research with the practical implementation of new ideas. As a result, Empa is capable of providing its partners with customized services and solutions that not only enhance their innovative edge and competitiveness, but also help to improve the quality of life for the public at large.

SPONSORED BY COST AND CTI





Swiss Confederation

Commission for Technology and Innovation CTI

GENERAL INFORMATION

Location Empa, St. Gallen

Lerchenfeldstrasse 5

Room C 3.11

Costs CHF 250.— for participants from Industry

CHF 150.— for participants from Academia

Workshop materials, lunch and

refreshments included

Registration www.empa.ch/e-spinning

Deadline June 2, 2016

Cancellation For cancellations after June 2, 2016.

50% of the fee will be charged.

After June 9, 2016, or in case of non appearance we will charge the full fee.

A substitute will be accepted anytime.

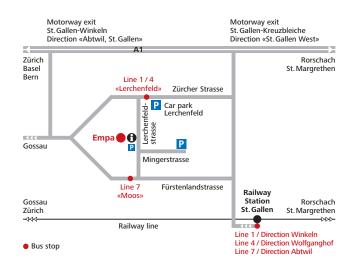
Contact Empa, St. Gallen

Dr Giuseppino FortunatoPhone +41 58 765 76 77
giuseppino.fortunato@empa.ch

www.empa.ch

How to Please do use public transport.

get here There is only very limited parking available.

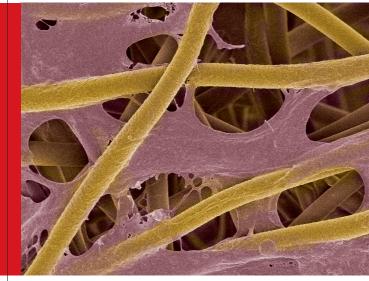




WORKSHOP

Electrospinning

Science and Applications



Empa, St. Gallen, Lerchenfeldstrasse 5 Thursday, June 16, 2016, from 9:00 to 17:00

Online registration: www.empa.ch/e-spinning

TOPIC

Nano- to submicron-scaled fiber membranes produced from electrospinning procedures incorporate highly relevant materials properties such as high surface-to-volume ratio, well-defined porosities and distinct transport properties. The electrospinning process itself is based on the application of electrostatic potentials to polymeric systems for fiber formation and is typically operated at room temperature conditions.

It is expected that the use of sub-micron and nanoscaled fiber membranes will allow novel functions that can be used for a variety of products and applications. Therefore, the aim of this workshop is to address aspects of the electrospinning technique as well as fiber and membrane properties to relevant applications in fields which include textiles, the medical sector and the field of sensors. Both, already implemented electrospinning technologies as well as novel fabrication equipment and products will be presented and discussed.

TARGETED AUDIENCE

The workshop is open for everybody interested in novel technologies and applications, with main focus on applied electrospinning techniques and respective fiber and membrane properties.

OBJECTIVES OF THE WORKSHOP

This event wants to bring together stakeholders from both applied material sciences as well as industries interested in manufacturing system, engineering and nanofiber fabrication. Recent developments of the design of advanced electrospinning processes based on both lab-scale and industrial plants will be presented. Moreover, the physico-chemical properties of electrospun fibers and membranes and their behaviour e.g. in biological environments will be a point of discussion together with their use in existing products in today's global market.

PROGRAM

	IVI
9:00	Welcome Dr René Rossi, Empa, Switzerland
9:15	COST Action MP1206 on electrospinning – past achievements and future outlook Dr Erich Kny
9:35	Functional electrospun nanofibers and their potential applications Prof. Tamer Uyar, University Bilkent, Turkey
10:05	Dye-functionalized electrospun nanofibers for colorimetric sensors Prof. Karen De Clerck, University Ghent, Belgium
10:35	Break
11:00	Wet-laid process – a new chance for electrospun nanofibers Prof. Andreas Greiner, University Bayreuth, Germany
11:30	Applications of ultralight 3D electrospun nanofiber sponges Dr Christian Adlhart, ZHAW Wädenswil, Switzerland
12:00	Lunch Break
13:00	Transport and drug releasing properties of electrospun membranes Dr Giuseppino Fortunato, Empa, Switzerland
13:30	Electro-hydrodynamic atomization of liquids for material processing: history, present and future Prof. Ignacio G. Loscertales, Yflow and University of Málaga, Spain
14:00	Functional nanofibrous scaffolds combined with stem cells for advanced biomedical devices and therapies Prof. N. Neves, University Minho, Portugal
14:30	Break
15:00	Nanofiber covered stents Daniel Wintsch, Biotronik, Switzerland
15:30	Nanospider™ electrospinning — industrial nanofiber production Dr Ivan Ponomarev, ElMarco, Czech Republic
16:00	Apéro

REGISTRATION

Electrospinning

Science and Applications

Empa, St. Gallen, Lerchenfeldstrasse 5 Room C 3.11 Thursday, June 16, 2016, from 9:00 to 17:00

Deadline: June 2, 2016

Please register online:

www.empa.ch/e-spinning

You will receive a confirmation by e-mail.