



REGISTRATION

To register, please fill out the online registration form:

 www.fep.fraunhofer.de/proflex

Participation is limited, we recommend an early registration.
The registration fee includes break drinks, small lunch and the dinner on November 27, 2017.

▶ Regular registration fee 325,- €

Within 10 days, you will receive a proforma confirmation of your registration as well as the invoice via e-mail.

Your registration gets valid with the incoming payment.

CONTACT

Program Board

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Conference Management

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VENUE

Fraunhofer FEP
Winterbergstraße 28 | 01277 Dresden, Germany

Detailed directions to the Fraunhofer FEP in Dresden:
 www.fep.fraunhofer.de

HOTEL RECOMMENDATIONS

A list of recommended hotels can be found on the event website:

 www.fep.fraunhofer.de/proflex

SPONSORSHIP AND EXHIBITION

Benefits of sponsorship start when you sign up and last until long after the pro flex! Every sponsor is acknowledged during their sponsored event with prominent signage, on the pro flex web site and in all pro flex publications throughout the year. Participate in our Sponsor Program to reinforce your name recognition and demonstrate your commitment to the industry.

If you do not only want your name but also your products and services to be present at our workshop, use the chance to become a part of our tabletop exhibition.

Ask for sponsorship and exhibition possibilities by email:
proflex@fep.fraunhofer.de



▶ ROLL-TO-ROLL COATING OF FLEXIBLE MATERIALS

PROGRAM

FOCUS 2017: TECHNOLOGY SCALE UP



NOVEMBER 27-28, 2017

DRESDEN, GERMANY

ABOUT THE WORKSHOP

We are delighted to announce the program of **pro flex 2017** and to invite you to a highly interesting conference!

Roll-to-roll processing and coating of flexible materials is a growing industry with a wide variety of important industrial products. The different talks will present this variety and the broad range of applications of roll-to-roll technologies. The program is framed by two talks that highlight very interesting and even visionary applications of flexible materials: architecture and OLED lighting. Between these two talks you may expect talks that cover nearly every aspect of roll-to-roll technology. The talks will be complemented by many possibilities for discussions as well as a lab tour on the second day.

The scope of the workshop **pro flex 2017** is to bring together equipment suppliers, film manufacturers, users of roll-to-roll equipment, converters, end-users of flexible materials as well as R&D institutions. The workshop pro flex has first been successfully held in 2004 in Dresden with more than 100 participants from 15 countries (Europe, Asia, and America), and then in 2007, 2010, and 2013 with even more participants. The attendees appreciate both the face-to-face atmosphere of a workshop with up-to-date presentations and the flair of an international conference.

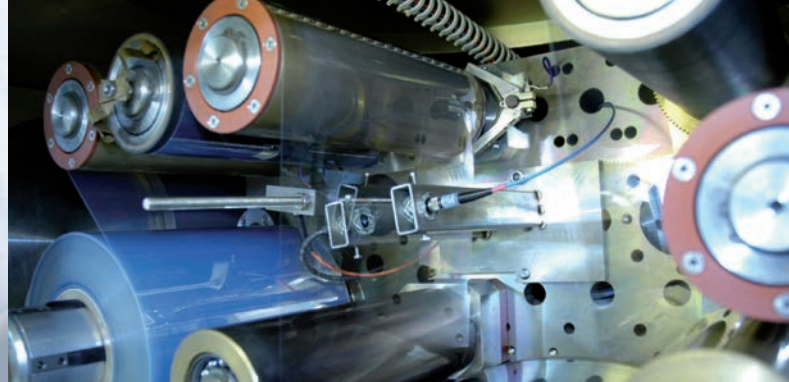
We, at Fraunhofer FEP, are dedicated to make the **pro flex 2017** worthwhile to the audience and presenters. Take this unique chance to meet renowned experts in the field of roll-to-roll processing of flexible materials and be a part of **pro flex 2017**.

We are looking forward to your participation in pro flex 2017.

Sincerely,

Nicolas Schiller
Program Chair

Annett Arnold
Conference Management



PROGRAM

DAY 1 | MONDAY, NOVEMBER 27

11:30 **Registration / Lunch**

12:30 **Welcome Adress**

12:35 **Innovative application of ETFE films in architecture**
Prof. Dr. Jan Cremers, Hochschule für Technik Stuttgart

12:55 **R2R processing of flexible glass substrates**
Sue C. Lewis, Corning Incorporated

13:15 **Ultra-Clean and High Performance Substrates for Large Area Flexible Electronics**
Valentijn von Morgen, DuPont Teijin Films Ltd., UK

13:35 **Roll-to-roll Nanoimprint Lithography Patterning of Polymer surfaces and using it for patterned electrodes**
Dr. Barbara Stadlober, Joanneum Research Graz

13:55 **Direct laser ablation of nanoparticle-filled polymers for microstructured print and replication master surfaces**
Dr. Ulrike Helmstedt, Leibniz-Institut für Oberflächenmodifizierung

14:15 **Coffee Break**

15:00 **All-in-one Roll-to-Roll solution producing flexible devices via additive printing and laser technology**
Chris Riedel, 3D-Micromac AG

15:20 **High-performance silver interconnects prepared on thin and ultrathin flexible substrates by inkjet-printing and laser treatment**
Dr. Marco Fritsch, Fraunhofer IKTS

15:40 **R2R production of anisotropic conductive polymer films**
Dr. Henrik Hemmen, Condalign AS

16:00 **Industrial scale production of low cost, transparent, low resistance (1 Ohm/sq) flexible electrode**
Alexey Dolbunov, FunNano USA Inc.

16:20 **Atmospheric Pressure SDBD plasma treatment for printed electronics applications**
Prof. Drs. C.I.M.A. Spee, Maan Research & Development B.V.

16:40 **Resource and Energy Efficient Coating of Flexible Substrates by Roll-to-Roll Atomic Layer Deposition at Atmospheric Pressure**
Dieter Bauer, Fraunhofer IVV

17:00 **Upscaling Roll-To-Roll Atomic Layer Deposition to Production**
Dr. Dana Borsa, Meyer Burger (Netherlands) B.V.

17:20 **Roll-to-roll deposition of high performance gas diffusion barriers on polymers using a new atmospheric plasma technology platform**
Sergey Starostin, FUJIFILM Manufacturing Europe B.V.

17:40 **Closing Remarks**

17:50 **Dinner Party**
Take part in our evening event!
Our highlights:
German beer corner
Networking space
Bonfire
Music

22:00 **End**

DAY 2 | TUESDAY, NOVEMBER 28

09:00 **Electronic or smart fabrics - considerations for scale-up**
Dr. Charles A. Bishop

09:20 **Compact Roll-2-Roll multipurpose coating system for DC, quasi-DC and AC sputtering**
Thomas Niederhausen, VON ARDENNE GmbH

09:40 **Application of Bipolar Pulsed Magnetron Sputtering and Bipolar High Power Impulse Magnetron Sputtering for functional coating deposition on flexible substrates**
Wojciech Gajewski, TRUMPF Huettinger

10:00 **Coffee Break**

10:30 **The exceptional performance of the Cascade Coater**
Moritz Graf zu Eulenburg, InovisCoat GmbH

10:50 **Intermittent Slot die coating**
Dr. Klaus Crone, Coatema Coating Machinery GmbH

11:10 **Improving the Performance of Ceramic Barrier Layers used in Packaging Materials**
Neil Morrisson, Applied Materials, Inc.

11:30 **Flexible Packaging: Ressource Efficiency and Recyclability**
Prof. Dr. Achim Grefenstein, Constantia Hueck Folien GmbH & Co. KG

11:50 **Advanced R2R Metallizing For Flexible Packaging & Security**
Prof. Nadir Ahmed, Idvac Ltd.

12:10 **Lunch Buffet**

13:10 **Flexible protected metallized polymeric reflector for use in „Heliotube“- solar – thermal energy conversion plants**
Dr. Roland Thielsch, Southwall Europe GmbH, a subsidiary of Eastman Chemical Company

13:30 **Encapsulation technology for OLED or OPV modules**
Dr. Tatsuya Izumi, Lintec Corporation

13:50 **High-Volume Solution Processed OLEDs Using a Roll-to-Roll Pilot Coating Line**
Harrie Gorter, Holst Centre

14:10 **Challenges in the Design and Manufacture of OLED Lighting**
Dr. Norman Bardsley, Bardsley Consulting

14:30 **Closing Remarks**

14:40 **Laboratory Tour**
Join our laboratory tour and take a look at our state-of-the-art coating equipment, featuring:
novoFlex® 600
coFlex® 600
atmoFlex 1250
FOSA LabX 330 Glass (Cooperated with VON ARDENNE GmbH)
ILA 900
REAMODE
OLED R2R Line

16:30 **End**