

Together for a clean environment and trendsetting products

Fraunhofer ISC know-how
on biodegradable functional coating materials

Würzburg, December 6, 2016



Foto: Marc Heurtaut, unsplash.com

Barrier Workshop bioORMOCER®

The department »Barrier and Multifunctional Layers« of Fraunhofer ISC is going to present current developments and know-how to give a close insight into their work.

Worldwide, plastic is an intensively discussed topic. More and more problems arising from littering and micro particles in the (sea) water call for sustainable solutions for the future. Bioplastics made from bio-based or biodegradable materials are promising although, until now, they could hardly meet the standard demands, e.g. barrier properties, for product applications.

Our new bio-based and bio-degradable material class bioORMOCER®, however, is up to par. This new class of materials allows to produce e.g. biodegradable barrier layers which are capable of competing with conventional barrier coating materials. With their good barrier properties against water vapor and oxygen, they are the missing link for ambitious biodegradable barrier films for food, pharmaceutical or cosmetic packaging.

Additionally, bioORMOCER® has the perspective to be biocompatible and resorbable. In physiological environments, they may be the basis for advanced solutions in medical applications due to their good barrier properties or antimicrobial functions. Furthermore, several additional functionalities resulting from the modular concept of (bio)ORMOCER® complete the material performance.

Therefore bioplastic, activated with bioORMOCER®, opens a wide range of applications and helps to make sustainable solutions most attractive for future products. In our workshop you will have the occasion to learn more about the wide range of opportunities offered by bioORMOCER® and to discuss trends and future needs of material performances. A guided tour of our Center of Applied Analytics ZAA opens up an interesting backstage view on our R&D.

After the workshop, we offer an informal networking evening in the historic center of Würzburg. It will be a pleasure for us to welcome you in Würzburg.

Date: December 6, 2016

Start: 11:00 a.m. (registration)

Location: Fraunhofer Institute for Silicate Research ISC, Neunerplatz 2, 97082 Würzburg, Germany

Participation fee: 150,- € for the first person

Participation fee for additional persons of the company: 50,- €



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Agenda

- | | |
|-------|---|
| 11:00 | Registration |
| 11:30 | Welcome and short introduction
Prof. Dr. Gerhard Sextl, Director of Fraunhofer ISC |
| 12:00 | Sustainable functional coatings for future packaging: barrier and antimicrobial coatings
Dr. Sabine Amberg-Schwab, Head of Department Barrier and Multifunctional Layers, Fraunhofer ISC |
| 13:00 | Snacks and coffee |
| 14:00 | Biopolymer materials for daily use
Ms. Anika Deinhardt, Department Barrier and Multifunctional Layers, Fraunhofer ISC |
| 14:30 | bioORMOCER®: barrier coatings in new applications
Dr. Daniela Collin, Department Barrier and Multifunctional Layers, Fraunhofer ISC |
| 15:00 | Barrier-trends in life-science applications
Dr. Jörn Probst, Head of Department Health, Fraunhofer ISC |
| 15:30 | Backstage: guided tour at Center of Applied Analytics ZAA
Dr. Alexander Reinholdt, Head of Department Electron Microscopy, Fraunhofer ISC |
| 16:15 | Time for further detailed discussions |
| 18:00 | Optional: Networking evening in Würzburg |



The Networking Evening

In the evening an inspiring informal networking event in the historic center of Würzburg is waiting for you.

Program:

- 18:30: Meeting in front of the old city hall of Wuerzburg and walk with the night watchman through the old town (with a St. Nicholas's Day surprise)
- 20:00: Informal dinner in one of the famous Würzburg wine taverns (at everybody's own expense)

For accommodation we would like to recommend the following hotels in the city center:

Greifensteiner Hof: Phone +49 (0) 931 35170 | www.greifensteiner-hof.de

Maritim Hotel: Phone +49 (0) 931 30530 | www.maritim.com

Mercure Hotel: Phone +49 (0) 931 41930 | www.mercure.com



Registration form for the first participant of the company

- ☐ I will participate in the Workshop on December 6, 2016 (participation fee: 150 €)
- ☐ I will also participate in the Networking Evening Event (on my own expense)
- ☐ I cannot participate and would like to have a bilateral talk. My suggestion for a meeting time:
..... or.....

First name: _____

Second name: _____

Company: _____

Function: _____

Street: _____

Postal code and city: _____

Phone: _____

Email: _____

- ☐ I agree with the electronic storage of my data by Fraunhofer ISC for the internal use.
- ☐ I'm interested in receiving information about future events and the service portfolio of Fraunhofer ISC.

Please meet us at 11:00 a.m., Fraunhofer ISC, Neunerplatz 2 (main entrance), 97082 Würzburg
The workshop starts at 11:30 a.m. – estimated end at 5:30 p.m. plus Networking Evening Event

Please send your registration by November 30, 2016
by mail to marie-luise.doerffel@isc.fraunhofer.de, or by fax: +49 931 4100 399



Foto: Gilles Lambert, unsplash.com

Registration form for additional participants of the company

- ☐ I will participate in the Workshop on December 6, 2016 (participation fee: 150 €)
- ☐ I will also participate in the Networking Evening Event (on my own expense)
- ☐ I cannot participate and would like to have a bilateral talk. My suggestion for a meeting time:
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