# Registration by FAX +49-2631-3933-33

Name:	
Company:	
Address:	
Code: Ci	
Phone:	
E-mail:	
Invoice Address:	
Code: Ci	ty:
VAT-No.:	
Order-No.:	
Please register these people as well:	
Name:	
Namo	

Attendance is limited. Please register early.
Past seminars have been fully booked up soon after announcement.

For further details please contact our conference coordinator Mrs. Gabi Bechtel Tel: +49-2631-3933-30 E-mail: gabi.bechtel@mocon.eu

## **Further details:**



#### **Location of the conference:**

Schloss Montabaur Schlossweg 56410 Montabaur/Germany Homepage: www.hotelschlossmontabaur.de E-mail: info@hotel-schloss-montabaur.de Tel: +49 2602 14 -300 Fax: +49 2602 14 -106

#### **Hotel reservation:**

With the confirmation of your registration you will receive a form for hotel room reservation. Please book your room at least 6 weeks before the seminar to ensure availability.

#### **Conference fee:**

€ 320 per person (for German customers, customers without VAT-No. or without certificate regarding the status as taxpayer: 19 % VAT will be added). The fee includes participation, documents, lunch and refreshments.

## Language:

The conference language is English.

#### Registration:

We recommend an early registration by fax with detailed invoice address and VAT-No.

## Payment terms:

Please transfer your conference fee after receipt of our invoice, latest 10 February 2015.



MOCON Gmbł

Carl-Borgward-Straße 10 • 56566 Neuwied/Germany Tel.: +49 2631 3933 0 • Fax: +49 2631 3933 33 info@mocon.eu • www.mocon.eu 14th International MOCON Conference

# Permeation Measurement Today

This seminar is for those involved with Barrier Material Selection, Package Testing, R & D, QA, and Barrier Specification

March 3rd, 2015, Schloss Montabaur Register soon, space is limited.



Equipos de control de calidad

Tel.: (+34) 902 450 160 Fax: (+34) 902 433 088 ermec@ermec.net www.ermec.net



# 14th International MOCON Conference

# **Permeation Measurement Today**

# PROGRAM FOR THE DAY

08:15

**Reception an Registration** 

08:45

Welcome

Franz Sturm, MOCON GmbH, Neuwied, Germany

09:00

**Permeation Basics** 

Relationship between permeation, solubility and diffusion; Fick's Law, intrinsic and polymeric properties affecting permeation

Michelle Stevens, MOCON Inc., Minneapolis, USA

09:30

Permeation Measurements from the perspective of a service laboratory

Options, benefits, practical examples
Matthias Bösel, Innoform GmbH, Oldenburg, Germany

10:00

**Coffee Break** 

10:30

International Permeation Standards

Explanation of the different standards for measurement of O<sub>2</sub>, WVTR and CO<sub>2</sub> transmission rate Christoph Zerwas, MOCON GmbH, Neuwied, Germany

11:00

**New Generation of Permeation Measurement Equipment** 

More user friendly, shorter test times, higher quality results, lower costs

The new state-of-the-art technology for permeation measurement

Andreas Roos, MOCON GmbH, Neuwied, Germany

11:30

**Challenges in High Barrier Film Development** 

Newest results in ultra barrier film development and critical issues to confirm the properties (transmission rate measurement)

Dr. Klaus Noller, Fraunhofer IVV, Freising, Germany

12:00

**Lunch Break** 

13:30

**Tips for getting Continued Quality Results** 

Gained through experience, for use in practice Hans-Peter Wagner, MOCON GmbH, Neuwied, Germany

14:00

**Shelf life Prediction in Pharmaceutical Packaging** 

Numerical diffusion simulation in thermoformed and cold formed blisters

Matthias Schellenberg, Suisse Technology Partners, Neuhausen am Rheinfall, Switzerland

14:30

**Testing Solutions for perforated and breathable Films** 

WVTR and OTR measurements for special applications
Doug Lindemann, MOCON Inc., Minneapolis, USA

15:00

**Coffee Break** 

15:30

Practical Applications of Gas Permeation Rate and Head Space Data for Product Shelf life

Prof. Ron Thomas, Clemson University, Clemson, USA

16:00

**Organic Permeation** 

Permeation of organic compounds such as flavor and aroma components, active ingredients, solvents, carries and more

Alan Shema, MOCON Inc., Minneapolis, USA

16:30

**Different Test Methods (WVTR High Barrier)** 

Overview of methods to measure high water barriers used in applications like OLED or photovoltaics
Andreas Roos, MOCON GmbH, Neuwied, Germany





Franz Sturm

Managing Director

MOCON GmbH, Neuwied, Germany



Michelle Stevens
MOCON INC., Minneapolis, MN, USA



Matthias Bösel Innoform GmbH, Oldenburg, Germany



Christoph Zerwas
Product Manager
MOCON GmbH, Neuwied, Germany



Andreas Roos
Product Manager
MOCON GmbH, Neuwied, Germany



**Dr. Klaus Noller**Fraunhofer IVV, Freising, Germany



Hans-Peter Wagner
Service Department Manager
MOCON GmbH, Neuwied, Germany



Matthias Schellenberg
Suisse Technology Partners,
Neuhausen am Rheinfall, Switzerland



**Doug Lindemann**Vice President / General Manager
Permeation Products & Services
MOCON INC., Minneapolis, MN, USA



**Prof. Ron Thomas**Clemson University, Clemson, USA



**Alan Shema**Product Manager Consulting Testing Services
MOCON INC., Minneapolis, MN, USA