

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

Name: \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_

Code: \_\_\_\_\_ City: \_\_\_\_\_

Phone: \_\_\_\_\_

E-mail: \_\_\_\_\_

Invoice Address: \_\_\_\_\_

\_\_\_\_\_

Code: \_\_\_\_\_ City: \_\_\_\_\_

VAT-No.: \_\_\_\_\_

Order-No.: \_\_\_\_\_

**Please register these people as well:**

Name: \_\_\_\_\_

Name: \_\_\_\_\_

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: gbechtel@lippke.com



Schloss Montabaur

**Further details:**

**Location of the conference:**

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

**Hotel reservation:**

Please refer to the „Lippke – MOCON Conference“  
when you arrange your hotel accommodation.  
Please reserve your room **at least 8 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 15 March 2013.



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**Lippke**<sup>®</sup>  
a MOCON company

**13<sup>th</sup>** International MOCON<sup>®</sup> Conference

**Permeation Measurement  
News - Trends - Applications**

**09 April 2013, Schloss Montabaur**

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

## Speakers



**Franz Sturm**  
Managing Director  
Paul Lippke Handels-GmbH, Germany



**Robert L. Demorest**  
President and CEO  
MOCON INC., Minneapolis/MN/USA



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



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



**Andreas Roos**  
Product Manager Permeation  
Paul Lippke Handels-GmbH, Germany



**Joel Fischer**  
Lab Manager  
MOCON INC., Minneapolis/MN/USA



**Frank de Brandt**  
Research & Technical Service Engineer  
EVAL EUROPE N.V., Zwijndrecht, Belgium



**Hans-Peter Wagner**  
Service Department Manager  
Paul Lippke Handels-GmbH, Germany

Complimentary to the symposium will be a display of the latest MOCON Permeation Measurement Instruments.

## Program for the day....

8.15  
**Reception and Registration**

8.45  
**Welcome**

*Franz Sturm, LIPPKE*

9.00  
**Traditional and New Applications in Permeation Measurement**  
*Robert L. Demorest, MOCON*

9.30  
**Permeation Basics - Part I**  
Relationship between permeation, solubility and diffusion; Fick's Law, intrinsic and polymeric properties affecting permeation.  
*Joel Fischer, MOCON*

10.00  
**Coffee Break**

10.30  
**Permeation Basics - Part II**  
Relationship between permeation, solubility and diffusion; Fick's Law, intrinsic and polymeric properties affecting permeation.  
*Joel Fischer, MOCON*

11.00  
**Alternatives to Traditional Permeation Testing**  
OpTech<sup>®</sup>-O<sub>2</sub> Platinum, a new measurement technology.  
*Andreas Roos LIPPKE*

11.30  
**High Temperature Permeation Testing**  
Testing close to real life conditions gives the best information of barrier properties. High temperature applications are important in the solar cell industry.  
*Joel Fischer, MOCON*

12.00  
**Lunch Break**

## Program for the day....

13.30  
**Latest MOCON Permeation Instruments**  
*Doug Lindemann, MOCON*

14.00  
**EVOH Based Solutions for Sterilisable Barrier Packaging**  
*Frank de Brandt, EVAL EUROPE N.V., Zwijndrecht, Belgium*

14.30  
**Understanding International Standards for Permeation Measurements**  
Explanation of the different standards for measurement of OTR, WVTR and CO<sub>2</sub> transmission rate.  
*Andreas Roos, LIPPKE*

15.00  
**Coffee Break**

15.30  
**Shelf Life Studies Basics - Concepts - Principles**  
A shelf life study is an objective means to determine how long a product can reasonably be expected to keep, without an appreciable change in quality, safety and character.  
*Alan Shema, MOCON*

16.00  
**Permeation Testing of Flavour / Aroma Compounds**  
*Joel Fischer, MOCON*

16.30  
**Tips for Getting Continued Quality Results**  
Gained through experience, for use in practice.  
*Hans-Peter Wagner, LIPPKE*

17.00  
**End**