

## REGISTRATION

Title, First name, Surname

Company / Organisation

Position

Street / Postbox

Zip-code, City, Country

Phone

Fax

E-Mail

The participation fee for the Talks of € 400 (members of INPLAS € 300, students € 120) is due on receipt of the invoice. I agree that my name and my service address are converted and stored to the purpose of the organisation.

Location, Date

Signature, Stamp



## ORGANISATION

### YOUR REGISTRATION

Your reply will help support our organisation. Please send back the registration form via post, fax or e-mail by the end of 27<sup>th</sup> January 2012.

The attendance fee is € 400 (€ 300 for INPLAS members, € 120 for students) and includes conference documentation, dinner, soft drinks and snacks. Confirmation of your attendance of the Talks is upon receiving your registration. Cancellation is possible two weeks before the course commences, after this the fee cannot be refunded.

In justified cases (loss of an adviser, to few participants) we reserve the right to cancel the event up to one week before the event commences, fees paid up to then will be refunded in full. INPLAS or Fraunhofer Society will not be held accountable for requirements beyond stated above.

### YOUR CONTACT

With regards to questions about the accommodation or organisation, feel free to contact us.

**INPLAS Office**  
Network of Competence INPLAS  
Bienroder Weg 54 E  
38108 Braunschweig, DE

[www.inplas.de](http://www.inplas.de)  
fax +49 (0) 531-2155-900

Mrs. Carola Brand  
phone +49 (0) 531-2155-574  
[carola.brand@inplas.de](mailto:carola.brand@inplas.de)  
  
Dr.-Ing. Gerrit von Borries  
phone +49 (0) 531-2155-662  
[gerrit.von.borries@inplas.de](mailto:gerrit.von.borries@inplas.de)

Sponsor of the INPLAS Talks  
»ALD AND FRIENDS«



## VENUE

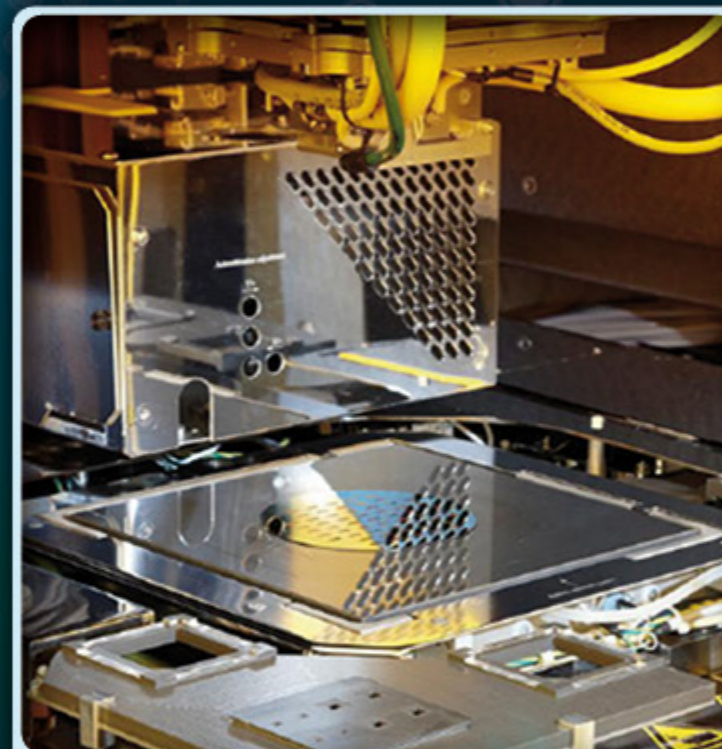
### Fraunhofer Institute for Surface Engineering and Thin Films IST

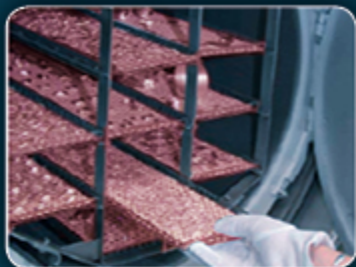
Bienroder Weg 54 E  
38108 Braunschweig, DE



You can find a location plan also on the INPLAS website under [www.inplas.de/contact](http://www.inplas.de/contact).

## 28<sup>TH</sup> – 29<sup>TH</sup> FEBRUARY 2012





## CONTENT

Dear colleague,

It is a great pleasure and opportunity to invite you all to our INPLAS Talks 2012 on atomic layer deposition (ALD) called „ALD and Friends“, which are to be held from 28th to 29th February, 2012 at Fraunhofer Institute for Surface Engineering and Thin Films IST located in the beautiful City of Braunschweig, Germany.

ALD is clearly an eye catcher for many industrial clients, manufacturers and also to different thin film technologists because of their new records of coatings properties achieved industrially in the fields ranging from nano-electronics to large area solar cells. These talks are intended to facilitate an in-depth insight in to ALD technologies, its applications and also its future establishment as one of the major industrial coating technologies. All of this interesting information and of course the questions relating to ALD will be answered and explained by our specially invited experienced ALD experts through their talks and discussions during the workshop.

We hope that this meeting will stimulate further discussions and common research projects in this important field of thin film technology. I am looking forward to your visit!

Prof. Dr. Günter Bräuer

Head of the Board | Network of Competence INPLAS e.V. and Fraunhofer IST

## PROGRAM 28<sup>TH</sup> – 29<sup>TH</sup> FEBRUARY 2012 | FRAUNHOFER IST, BRAUNSCHWEIG, DE

### Day 1 Start at 2:00 p.m.

2:00 p.m. Opening Address  
Prof. Dr. Günter Bräuer | Network of Competence INPLAS, DE

2:15 p.m. Impulse Talk:  
ALD and Friends  
Dr. Bernd Szyszka | Fraunhofer IST, DE

2:45 p.m. ALD processes, materials and applications for  
nanoelectronics  
Dr. Jonas Sundqvist | Fraunhofer CNT, DE

3:15 p.m. Break

3:30 p.m. Conformal metallization by thermal and plasma  
enhanced ALD  
Juhana Kostamo | Picosun, FI

4:00 p.m. Latest developments and system design for ALD processes  
Hugo Tholense | Beneq, FI

4:30 p.m. Final discussion + Guided Tour of Fraunhofer IST  
+ Introduction of Beneq ALD Unit TFS 500

5:30 p.m. End of Talks (Day 1)

7:30 p.m. Evening-Event

End of Day 1 at 10:30 p.m.

### Day 2 Start at 9:00 a.m.

9:00 a.m. From R&D towards industrial atomic layer deposition:  
challenges in scaling up  
Prof. Dr. Matti Putkonen | Beneq, FI

9:30 a.m. Fast ALD: high throughput and large area atomic layer  
deposition  
Dr. Paul Poodt | TNO, NL

10:00 a.m. Break

10:20 a.m. Progress towards roll-to-roll ALD  
Prof. Dr. David Cameron | Lappeenranta University of  
Technology LUT, FI

10:50 a.m. ALD for MEMS – VTT view  
Dr. Riikka Puurunen | VTT, FI

11:20 a.m. ALD grown high-k dielectrics: Structural and electrical  
properties  
Dr. Uwe Schröder | NaMLab, DE

11:50 a.m. Lunch

1:00 p.m. Thin film encapsulation of OLEDs via (plasma assisted)  
atomic layer deposition  
Prof. Dr. Wolfgang Kowalsky | TU Braunschweig, DE

1:30 p.m. Plasma ALD of TCOs  
Sanjeev Kumar Gurram | Fraunhofer IST, DE

2:00 p.m. ALD for high-efficiency silicon solar cells  
Prof. Dr. Jan Schmidt | ISFH, DE

2:30 p.m. Final discussion

3:00 p.m. End of Talks

## REGISTRATION

# INPLAS Talks

»ALD AND FRIENDS«

INDUSTRIAL PERSPECTIVES FOR  
ATOMIC LAYER DEPOSITION

28<sup>th</sup> – 29<sup>th</sup> February 2012 | Fraunhofer IST, Braunschweig, DE

Fax: +49 (0) 531-2155-900

INPLAS Office  
Mrs. Carola Brand  
Bienroder Weg 54 E  
38108 Braunschweig

GERMANY