

Location

ICM Munich (International Congress Centre Munich)
Registration: Entrance West
Halls B1–B6, A1–A3
Room 14 b (1st Floor)
Fair grounds
81823 Munich, Germany

Conference language

English

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Online Registration

The pre-registration is available on the SMET Conference website from Intersolar: www.intersolar.de

Participation fee

| Registration for all sessions | Registration per session |
|-------------------------------|--------------------------|
| 990 Euro | 465 Euro |

VAT is included in the participation fees. Participation fees include: access to Intersolar and the conference, welcome coffee in the morning, coffee breaks and lunch on Thursday. In the registration fee for individual sessions, lunch is not included.

Websites

www.solarpraxis.de/index.php?id=1646
www.pvgroup.org/intersolareu

Information about Sponsoring

If you are interested in Sponsoring the conference, please send us an e-mail:
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5th SMET Advanced PV Technology Conference Programme

27–29 May 2009

5th SMET Advanced
PV Technology Conference

A cooperation of Solarpraxis, PV Group and Intersolar 2009

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5th SMET Advanced PV Technology Conference 2009

Competition in the solar industry is increasing. Looming over-production is putting the industry under pressure to cut prices, actively open new markets and to focus even more on the needs of end users and system installers.

But have manufacturers thought through the consequences? Is there enough cooperation between industry and research, so as to find ways to further reduce costs quickly, yet without compromising quality? Can classic forms of PV technology continue to compete or does the future just lie in roll-to-roll technologies? The silicon and other raw material prices used are not the only important factors; ultimately market acceptance of the new technologies will play a key role.

It is crucial to strengthen the consumers' confidence and to gain transparency. Independent module tests, which pv magazine and photovoltaik undertake in cooperation with TÜV Rheinland, should make a valuable contribution here.

Karl-Heinz Remmers
Solarpraxis

Eddy Blokken
SEMI Europe

Wednesday, 27th May 2009

Session 1

WAFER & CELL MANUFACTURING

Potentials at the beginning of the production chain

- 14.00** Opening Remarks
Heinz Kundert, President, SEMI Europe
- 14.10** A technology Roadmap for PV manufacturing
Winfried Hoffmann, VP and CTO Energy and Environmental Solutions, Applied Materials
- 14.35** Latest technology standard to meet increasing demand for high-speed cell & wafer handling
Carsten Busch, Segment Manager Solar Industry PV, ABB Division Robotics
- 14.55** TLS-Dicing (TM) for concentrator dies – a fast and clean technology
Hans-Ulrich Zühlke, Business Development Manager, Jenoptik Automatisierungstechnik
- 15.15** “SAFER is BETTER”: The new rule when choosing heat transfer and lubricant fluids to protect your investment in PV manufacturing.
Francesco Triulzi, New Business Development Engineer, Solvay Solexis
- 15.35** Coffee break
- 16.10** The cost savings of a silane-free c-Si solar fab
Marshall Bates, VP Sales and Marketing, Sixtron Advanced Materials
- 16.30** Perfluoroelastomer And Fluoroelastomer Seals For Photovoltaic Cell Manufacturing Processes
Michele Vigliotti, Applications Consultant, DuPont Performance Elastomers
- 16.50** SINGULAR – A New Modular Inline Coating System for Silicon Solar Cells
Björn Roos, Product Manager Photovoltaic, SINGULUS TECHNOLOGIES
- 17.10** The Road to Grid Parity
Speaker tbc
- 17.30** Beam-Induced Wafering Technology for Kerf-Free Thin PV Manufacturing
Francois Henley, SiGen
- 17.50** Closing Remarks
Eddy Blokken, Director Technology and Standards, SEMI Europe
- 18.00** End of day one

Thursday, 28th May 2009

8.30 Welcome Coffee

Session 2

MODULE MANUFACTURING CHALLENGES

Module Manufacturing Challenges

Key technologies for the future of pv

- 9.00** Chair: Short remarks on current manufacturers situation
Frans Van Den Heuvel, Scheuten Solar
- 9.10** Keynote: Challenges for module manufacturing from scientific point of view (module production technology)
Paul de Jong, ECN
- 9.30** Certification of modules on a global level
Intertek Testing Services, speaker tbc
- 9.50** How products, processes and factories have to be designed for a successful module certification
Carolus Kerber, IB Vogt
- 10.10** Evolutionary PV-module production – from production cell to integrated, fully-automated production line
Lutz Gerold, General Manager, Maschinenbau Gerold
- Automisation: Which (cost) advantages can further automisation bring?
Carsten Busch, Segment Manager Solar Industry PV, ABB
- 10.50** Discussion
- 11.10** Coffee break
- 11.40** Towards a more cost efficient PV module production using both new technologies and optimising current processes
Ronald F.M. Lange, 3S Swiss Solar Systems
- 12.00** Silicone structural sealants enable frameless mounting systems: cost-effective reliable solutions for large scale production.
Thibault Kervyn, Dow Corning
- 12.20** A look into the future: Can thinner class be used?
James E. Webb, Corning
- 12.35** A comparison of crystalline silicon solar modules and a-Si:H/_c-Si:H thin film solar modules and its impact on the thin film industry
S. Gau, Co- CTO Best Solar Co
- 12.50** Discussion
- 13.00** Lunch

Thursday, 28th May 2009

Session 3

STANDARDS & ADVANCED PROCESS CONTROL

Latest developments in production line integration

- 14.00** Opening Remarks
Q-Cells, speaker tbc
- 14.15** Standards and Process control
Dr. Hans Ebinger, Oerlikon
- 14.45** The future of roadmaps
Speaker tbc
- 15.10** An integrated and straight roadmap to highest manufacturing efficiency
Roland Willmann, Product Manager and Architect – Process Control System, Advanced Clean Production – Information Technology
- 15.35** Materials and standards
Speaker tbc
- 16.00** Coffee break
- 16.35** The Proven Benefits of Using an Integrated Approach to PV Factory Optimization
Terry Behrens, Senior Director of Manufacturing Integration, CH2M HILL
- 17.00** Solar Cell Efficiency Distribution Mapping
Makoto Yonezawa, Director & Managing Executive Officer, Lasertec Corporation
- 17.25** Process control
Dieter Rathei, Managing Director, DR YIELD software & solutions
- 17.50** Closing Remarks
Eddy Blokken, Director Technology and Standards, SEMI Europe
- 18.00** End of day two

Friday, 29th May 2009

8.30 Welcome Coffee

Session 4

MODULES UNDER SCRUTINY: OBJECTIVE COMPARISONS

Effects & Need For The Production Chain

- 9.00** Chair: Background of the independent module field testings
*Karl-Heinz Remmers, Director, Solarpraxis
Eddy Blokken, Director Technology and Standards, SEMI Europe*
- 9.10** Keynote: Why modules bought anonymous in the market should be tested in addition to IEC certification?
Willi Vaaßen, Head of Testing Center TÜV
- 9.40** The test requirements and procedures of the 2009 testings
Speaker tbc
- 10.10** Why exceeded testing gives essential information about product design?
Jürgen Arp, CEO, abastrial GmbH
- 10.30** Threads for modules in the field: Reality of violent handling, hot climate ammonia gas and other stories that must be considered in product design
Christian Dürschner, Senior PV engineer, Solarpraxis
- 10.50** Discussion
- 11.00** Coffee break
- 11.40** Summary of the technical discussion in the advisory board of the testings- challenges for module manufacturers
André Pfeiffer, pv magazine / photovoltaik
- 12.00** Requirements of installers on modules after the return of a buyer's market: Size & Weight of the modules? Quality? Warranty? Price? Services?
Siegfried Schröpf, CEO, Grammer Solar Germany
- 12.20** PV Cycle: Status of the European voluntary take back and recycling system for end of life PV modules
Virginia Gomez, PV Cycle
- 12.40** Discussion and closing of the conference
- 13.00** End of Conference