

8th Advanced PV Manufacturing Forum

Call for Papers

12-13 June, Munich, Germany

In conjunction with Intersolar Europe 2012

“Roadmap To Manufacturing Excellence in PV”

SEMI PV Group and VDMA Photovoltaic Equipment are pleased to announce the **8th Advanced Photovoltaic Manufacturing Forum** to be held in conjunction with Intersolar Europe 2012 (June 13-15, Munich, Germany). We are inviting photovoltaic professionals to submit abstracts for the annual conference forum.

This event is an excellent opportunity for PV technology leaders, managers, engineers and professionals from the users and suppliers community, and R&D to share most recent developments in their joint drive towards “excellence in PV manufacturing”. The conference sessions will take a close look at most critical hurdles identified by the early PV Technology Roadmap (www.itrpv.net) as well as the results of the various VDMA PV task forces. The conference will explain how to take on the challenges to continuously advance PV manufacturing tools and operation, and have a prosperous photovoltaic industry in the long run. The forthcoming conference is an outstanding opportunity to network and debate forward looking ideas with your peers and gain learnings for your work-to-be-done. We combine efforts between PV device manufacturers, equipment and materials suppliers and academia.

All companies from manufacturing, equipment and materials, associations, research institutes and public-sector bodies are eligible to submit papers for **the 8th Advanced PV Manufacturing Forum**.

The abstract should explain the key issues to be covered in your presentation and their relevance for the conference. The abstract should not be longer than one page. It should be accompanied by short biographical information about the author.

Presentations must focus on original, non-commercial work describing recent developments for the following sessions are welcome:

Session 1: PV Technology: Materials (Silicon, Ingot, Wafer, Backsheets, Consumables, pastes etc) Future wafer dimensions development and material trends are going to be discussed. A replacement of some materials will be necessary to secure availability, avoid environmental or health risks, reduce costs and increase efficiencies

- Cost developments of materials (silicon, ingot, wafers, backsheets, consumables etc)
- Cost reduction potentials
- Material parametrics, material specification
- Wafer thickness, wafer size
- Metallization
- Pastes, replacement of materials (lead, cadmium, Ag)
- Others

Session 2: PV Technology: Process Equipment / Manufacturing (front-end and back-end)

Reduction of production costs, new technologies, materials and highly productive equipment including SPC will be discussed.

- Yield loss, uptime
- Chemical processes & equipment
- Thermal processes & equipment
- Metallization process & equipment
- Operators
- Stringing / Lamination

- Cost reduction potentials
- Others

Session 3: PV Technology: Product / Technology (cell, module) Important features of solar cells will change over the next years. Issues for future cell and module architecture and the corresponding developments will be discussed

- Cell parametrics (Efficiency, FF, Cell power / Module Power),
- Cell thickness, cell sizes, cell concepts
- Cost reduction potentials
- Others

Session 4: PV Technology: Automation / Handling (cell, module, thin film) Quality, reliability and competitive cost structures are still the main issues for successful photovoltaic production. Intelligent automation and handling concepts regarding

- Wafer thickness, wafer size
- New cell and module concepts
- New materials and components
- Cost reduction potentials
- Others

are going to be discussed.

Session 5: PV Technology: Laser Applications / Optical Inspection (cell, module, thin film) The application of laser systems in pv production promises both increasing cell and module efficiency and the reduction of production costs. Optical inspection ensures process stability and guarantees highest product quality. New trends and applications are discussed

- Laser structuring, ablation, scribing, drilling, cutting, marking
- New cell concepts
- Flexible substrates
- Inspection of wafer, cells, strings, modules, glass, thin film
- others

Session 6: PV Technology: Fab / Line Layout An optimized fab and line layout is a powerful tool to enhance the competitiveness in pv production. Current process optimization perspectives will be discussed

- Integrated production
- Investment and operating costs
- New layouts and logistics
- Site selection
- others

Instructions to submit an abstract – submit the following information with each email

- Specify which session 1-5 or 6 your presentation falls in to
- Presentation title
- Abstract of 200-400 words (descriptive paragraph identifying issue addressed and solution)
- Short biography of the author and picture
- Author contact details (Job title, company, address, telephone, email)
- Contact person details (i.e. Personal Assistant)
- Indicate in subject line of email “Advanced PV Manufacturing Forum Call for Papers”

Please submit ALL the above information in one email by 15 January, 2012 to semieurope@semi.org. Your presentation will not be included in the review process unless the information is complete.

Evaluation criteria include significance, usefulness for the manufacturing world, clarity and accuracy as a paper. Abstracts will be peer-reviewed and selected according to the points above. We encourage application related presentations, i.e. on joint projects between users and suppliers. Papers are to be non-commercial and focus on the technical/economical merits of a process rather than the individual company's product benefits.

Deadlines

- Deadline for submission of abstract : 15 January 2012
- Decision about acceptance / refusal: 30 January 2012
- Deadline for submission of final presentation: 01 May 2012

For further questions please do not hesitate to contact us

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