

Work group 2 workshop

WG2 proposal: Large scale action – Photonic Tools for Solar Excellence

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Photonics21 Annual Meeting
14th – 15th January 2010
Radisson Blu Royal Hotel Brussels

Proposals for large scale projects

Possible options:

- 1) Light weight vehicles
- 2) Solar cell production



Alternative 2) was chosen:

- **Better fit with societal mega trend Eco Thinking**
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Large scale action - Photonic tools for solar excellence

Aims:

Create leadership for Europe`s PV and PV equipment manufacturers

- Raising the efficiency of solar cells
- Increasing the productivity of the manufacturing process.



Means:

- Transfer novel lasers and new laser-based processes from laboratory-scale demonstrators into industrial applications
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Agenda Part 1: Introduction to the topic in 3 presentations

13:15 - 13:30	European Photovoltaic Technology Platform: Photonics in the EUPV Strategic Research Agenda and Implementation Plan	Jeff Portmans Department Director Solar & Organic, IMEC
13:30 - 13:45	Lasers in Photovoltaics - current challenges and shortcomings	Thomas Fehn Head of Laser Technology BU, Jenoptik
13:45 - 14:00	A manufacturer's perspective - Key challenges in solar cell production	Ingo Schwirtlich VP Technology, Global R & D, SCHOTT Solar AG

Agenda Part 2: Workshop of Workgroup 2

14:00 - 15:30	Work Group discussion	All WG members
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- Summary of the 3 presentations (bullet points)
 - Can a Technology be predicted that wins?
 - Discuss most important developments for the main future technologies
 - Processes and lasers for crystalline solar cells
 - Processes and lasers for thin film solar cells (a- Si, my Si, CIS/CIGS, CdTe)
 - Topics and participants of an industrial Laser PV Advisory Board that suggests next steps towards the European Large Scale Action „photonic tools for solar excellence“
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Large scale action – Photonic tools for solar excellence

Backup

(to be completed – market and trends, technologies)
