



PROGRAM

PHOTON's 4th Thin Film Conference on Feb. 1 – MARKET STRATEGIES OF CIGS MODULE MAKERS

9:00 - 9:05

CONFERENCE OPENING

Chairperson:

- Michael Schmela, PHOTON International, Germany
- Craig Hunter, Intermolecular, USA

Invited speakers

9:05 - 9:45

FUNDAMENTALS

- Rommel Noufi, National Renewable Energy Lab (NREL), USA
»Promises & challenges of CIGS technology«
- Markus Beck
»CIGS – a process agnostic view of the requirements for high-volume manufacturing«

9:45 - 11:15

CIGS COMPANIES – COMPETING FOR MARKET SHARE

- Ichiro Sugiyama, Solar Frontier, Japan
»Low-cost manufacturing at gigawatt capacity«
- Hartmut Fischer, Avancis, Germany
»Partnering for success – from sole production in Germany to a new JV factory with Hyundai in Asia«
- Atiye Bayman, MiaSolé, USA
»A different approach – CIGS using all PVD«
- Lars Stolt, Solibro, Germany
»Efficiency roadmap to 16.7-percent CIGS modules by 2016«

11:15 - 11:35

Coffee Break

11:35 - 13:00

CIGS COMPANIES – COMPETING FOR MARKET SHARE

- Aaron Thurlow, Stion, USA
»Ramping up of a new 135 MW factory in Mississippi«
- Dave Jackrel, Nanosolar, USA
»Cracking the code on CIGS«
- Mustafa Pinarbasi, SoloPower, USA
»Flexible CIGS modules«
- Michael Bartholomeusz, AQT, USA
»Getting CIGS 3.0 ready for commercialization«
- Boris von Bormann, Solecture, Germany
»CIGS Performance and quality measurements – striving for customer adoption and satisfaction«

13:00 - 14:00

Lunch

14:00 - 15:30

TECHNOLOGY: CHOOSING THE RIGHT TOOLS TO SCALE BIG AT LOW COST

- Dieter Manz, Manz, Germany
»Turnkey lines for high-efficiency CIGS modules«
- Torsten Winkler, FHR Anlagenbau / Centrotherm, Germany
»Roll-to-roll type equipment for flexible CIGS«
- Dave Pearce, Nuvosun, USA
»Minimizing CIGS Costs through Internal Equipment Design«
- Harry Efstathiadis, College of Nanoscale Science and Engineering, University of Albany, USA
»The US Photovoltaic Manufacturing Consortium (PVMC) – Ways to increase and speed up implementation of CIGS«

15:30 - 16:00

Coffee Break

16:00 - 17:30

PERFORMANCE: TALES FROM LAB AND FIELD

- Steve Fleming, Q-Cells, Germany
»Efficiency roadmap to 16.7-percent CIGS modules by 2016«
- Markus Schweiger, TÜV Rheinland, Germany
»Performance characteristics of CIGS modules compared to other PV technologies«
- Martina Siebmans, PHOTON Lab, Germany
»Outdoor test results for CIGS modules at PHOTON's test site«

17:30 - 18:30

EXECUTIVE PANEL: CIGS – THIN FILM'S SAVIOR?