

2nd Public Workshop

Alexander Olowinsky

LASER World of **PHOTONICS** 

Laser Polymer Welding – Recent results and future prospects
for industrial applications in a European research project

Munich, Germany

May 14, 2013



Agenda

09:15 Alexander Olowinsky (Chair) Fraunhofer ILT, Aachen (DE)

Introduction, Polybright Project Overview

09:40 Tim Westphäling IPG Laser GmbH, Burbach (DE)

High-brilliance Fiber Laser Sources with new NIR Wavelengths

10:05 Daniel Vogler Leister Technologies AG, Kägiswil (CH)

Beam shaping for enhanced laser polymer welding

10:30 Coffee break

Agenda

- 10:50 Frauke Legewie LIMO Lissotschenko Mikrooptik GmbH, Dortmund (DE)
Welding of polymers with adapted wavelengths and innovative intensity distributions by beam shaping - laser sources and materials
- 11:15 Saara Ruotsalainen VTT Technical Research Centre, Lappeenranta (FI)
Intelligent Power Control for Quasi-Simultaneous laser welding
- 11:40 Fernando Liébana Fundacion Tecnalia Research&Innovation, Derio (ES)
Autocalibration system with internal and external camera for scanner-based laser welding of polymers
- 12:05 Mikko Laaksonen Cencorp Oyj, Mikkeli (FI)
Laser welding machines with new features
- 12:30 Final Discussion
- 12:45 Lunch Restaurant „Am See“ Entrance West 1st Floor

Thank you for your attention!