

# Development and Exploitation of Processes for Thin Flexible Glass

A one day workshop on short-pulse laser processing and deposition of advanced materials on R2R platforms. Discussions relevant to touch panel displays, photovoltaics, and high density electronics.

**Date:** Wednesday 14<sup>th</sup> May 2014

**Location:** M-Solv Ltd. , Oxonian Park, Langford Locks, Kidlington, Oxford OX5 1FP, United Kingdom.

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| 8.45  | Registration opens.   |
| 9.30  | Introduction<br><br>“The Challenge of Development and Exploitation of Processes for Thin Flexible Glass”<br>Phil Rumsby, M-Solv Ltd.              |
| 10.00 | Applications for Thin Flexible Glass<br>Guest Speaker: Elmar Guenther –Schott Glass GmbH  |
| 10.30 | Refreshments  |
| 10.45 | Applications for Thin Flexible Glass (contd.)<br>Guest Speaker - Dr Stefan Mogck – Fraunhofer COMEDD<br>Guest Speaker - Robin Taylor –Atotech Ltd |
| 11.45 | Overview of Laser Connect Project and Short Pulse Interactions<br>Gerard O’Connor, NCLA –NUI Galway   |
| 12:15 | Poster Abstract Presentations   |
| 12.45 | Lunch + Posters   |

**POSTERS:**

- “Thin film patterning of ITO on “In-cell” touchscreen devices” - Camilo Prieto
- “Effective Laser Laboratory for thin glass structuring “ - Danijela Rostohar
- “Mechanically inspired laser glass scribing “ - Adam Collins
- “Ultra-short pulse laser ablation of thin ITO” - Cormac McDonnell
- “Damage free thermo-elastic ablation of thin gold films “ - Natalie Hastrup
- “Laser ablation of Molybdenum with real time visualisation” - Pinaki Das Gupta

**13.45 Applications for Thin Flexible Glass**

“Touch Panel Manufacturing on Thin Flexible Glass”: Helios Chan, M-Solv Ltd.

“One Step Interconnect for Thin Film PV”, Adam Brunton, M-Solv Ltd.

“A Digital Approach to Smart Window Fabrication”: Taku Satu, M-Solv Ltd.

“Bonding and De-bonding for Handling Thin Flexible Glass”: Simon Henley, M-Solv Ltd

**14:45 Demonstrations:**

- Roll to Roll laser /print platforms
- Touch Panel Production Facility
- Spray Deposition of Transparent Conductive Coatings
- Other laser facilities at M-Solv

**15.30 Refreshments****16.00 Summary of Workshop & Final Discussions**

Phil Rumsby, M-Solv Ltd.

**17.00 Close**