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Friday 17th August 2012 – Photolithography Workshop

Hosted by Bandwidth Foundry International, a wholly owned entity of the University of Sydney and a member of the ANFF OptoFab Node

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Venue: Australian Technology Park Locomotive Workshop, Bay 8, Room 6A

Session 1: – Photolithography Basics: presenter Dr Steven Madden – Australian National University

9:00 to 10:30 This session covers the basic elements of lithography from design concepts through process considerations, type of equipment in the Lithography process, photoresist materials used in the process and what you need to know when considering Photolithography as a process to develop your designs into working products

10:30 to 10:45 Coffee and tea

Session 2: – PAS5500/100 Stepper Introduction: Presenter Keith Best – Simax Lithography

10:45 to 12:15 The purpose of this session is to acquaint researchers with the stepper and how it can be used to achieve research goals. It will look at the advantages of the stepper over traditional 1 to 1 contact printing using mask aligners.

12:15 to 1:00 Lunch

Session 3: – PAS5500/100 Stepper Applications: Presenter Keith Best – Simax Lithography

1:00 to 2:30 A look at some of the typical uses of the stepper in micro-electronics such as LED's on III – V materials, photovoltaics, MEMS and NEMS devices, Microfluidic devices, Bio-sensors, Photonic devices, and Nano applications

2:30 to 2:45 Tea

Session 4: – Nano Ink Dip Pen Lithography and the Stepper: Presenter to be confirmed – Nano-ink Inc.

2:45 to 3:30 In the final session of the day we will look at the process of Nano Ink "Dip Pen Nanolithography" (DPN) system which directly writes patterns with liquid materials and how to integrate the DPN with the stepper. The blending of etching and DPN methods is ideal for the rapid prototyping of nanoscale diffraction gratings, plasmonic features, and arbitrary solid-state patterns.

Panel Session

3:30 to 4:00 With all the speakers and Operations Manager David O'Connor

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Registration for the workshop, includes morning and afternoon teas and lunch.
\$25 per person

Registration Form

Name: _____, Position: _____

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Credit Card Details –

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Card Number: _____ CCV: _____ (on back of card)

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Please return registration form to bfi.sales@bwfoundry.com or fax to 02 8374 5301

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