

## WORKSHOP REGISTRATION

XING AG, on behalf of the event organiser AMS Technologies AG, is in charge of invoicing and payment handling.

Workshop Registration Regular ..... EUR 130.00\*

Workshop Registration Student  
(Student certification is required) ..... EUR 80.00\*

\*Price (incl. VAT)

Please use the online form for registration and payment:

[www.amiendo.com/ams\\_en](http://www.amiendo.com/ams_en)



If we receive your written cancellation by no later than 29 May 2015, we will refund 100% of your registration fee (less bank fees). If withdrawal is made after 29 May 2015, the workshop registration fee shall be payable in full. Ticket may be transferred to other people. In case of cancellation or for any further questions contact Mr. Jan Brubacher:

jbrubacher@amstechnologies.com, +49 (0)89 89 577-173

**We are looking forward to welcome you to our workshop and to our booth in hall B2.203.**



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## LOCATION & CONTACT

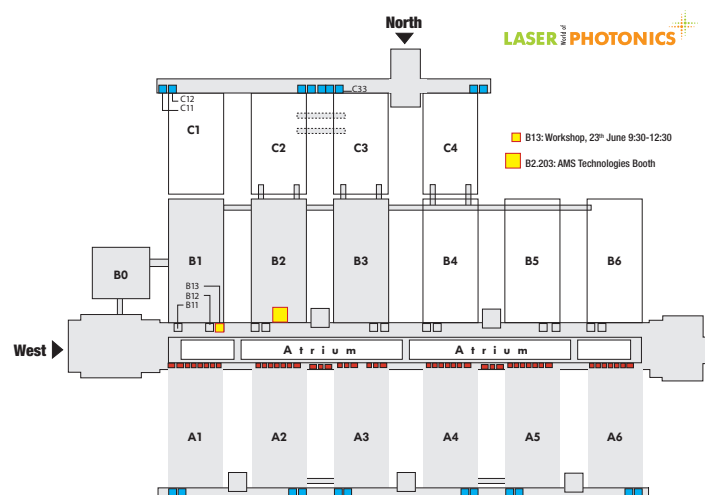
### Organisation:

AMS Technologies AG  
Fraunhoferstr. 22  
82152 Martinsried  
Mr. Jan Brubacher  
Phone: +49 (0)89 89 577-173  
E-Mail: jbrubacher@amstechnologies.com

### Event venue address:

Messegelände West  
Conference room B13  
81823 München Germany

The workshop venue is the conference room B13 at the Munich International Trade Fair during LASER World of PHOTONICS 2015  
Tuesday 23<sup>th</sup> June 2015, 09:30-12:30 AM



## AMS Technologies Workshop Interconnection and fusion splicing of high-power optical fibers

Tuesday 23<sup>th</sup> June 2015, 09:30-12:30 AM  
Munich, LASER World of PHOTONICS, Room B13



## WORKSHOP ABSTRACT

**This course provides attendees with both conceptual and practical knowledge concerning high-power single-mode, few-mode, and multimode optical fiber interconnection.**

High-power optical fibers are displacing traditional bulk optical elements in applications such as laser sources, optical amplifiers, and beam delivery systems. However, their high signal or pump powers, large spot sizes or mode areas, and large fiber diameters pose interconnection difficulties including signal loss, mode conversion, polarization crosstalk, reflections, localized heating, end facet damage, and even catastrophic device failure.

Various technologies have been developed to address these difficulties including mode field matching technologies, high-power fiber terminations, modal content measurements, and large-diameter fiber cleavers and fusion splicers.



End-view image of a fused 19:1 fiber combiners. Image by Vytran LLC

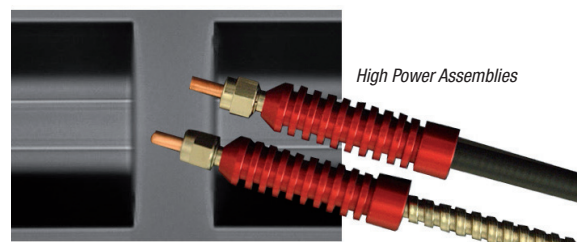


Large RIC preform for the production of optical fibers. Image by Heraeus Holding GmbH

## THIS COURSE WILL ENABLE YOU TO...

- *Improve the quality and reliability of your high-power optical fiber assemblies*
- *Avoid destruction of fibers and lasers due to bad interconnections*
- *Compare competing interconnection technologies*
- *Select equipment for high-power optical fiber interconnection*
- *Evaluate and apply mode matching technologies for high-power interconnection*
- *Estimate splice/interconnection optical properties using numerical computation tools*
- *Test and measure high-power optical fiber splice/interconnection quality*

This material is intended for designers and builders of high-power single-mode, few-mode, and multimode optical fiber lasers, amplifiers, and beam delivery systems. This course builds upon a basic knowledge of optical waveguide theory.

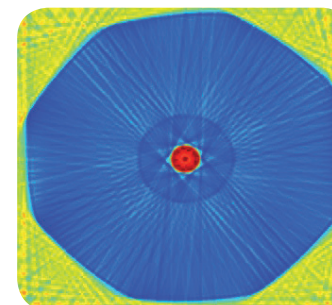


## ABOUT THE INSTRUCTOR



Andrew D. Yablon earned the Ph.D. from M.I.T. in Cambridge, MA. From 1998 until 2000 he was Senior Research Scientist at Vytran Corporation in Morganville, NJ, where he developed novel fiber processing and fusion splicing technologies. From 2000 until 2008 he was a Member of Technical Staff at OFS Laboratories in Murray Hill, NJ (formerly the Optical Fiber Research Dept. of Bell Laboratories, Lucent Technologies). In September, 2008 Dr. Yablon founded Interfiber Analysis.

Dr. Yablon has participated as an author on over 80 peer reviewed publications, holds 22 US Patents, and authored the textbook Optical Fiber Fusion Splicing. His current research interests include optical fiber mode characterization, optical fiber refractive index measurement, and fiber interconnection. Dr. Yablon is a Senior Member of the OSA and has previously served as Chair for the Fibers and Propagations Effects Subcommittee of OFC/NFOEC.



2-Dimensional Refractive Index Profile of Large mode area (LMA) Fiber

