

Workshop 2
Ultra-High Precision Manufacturing
25 November 2015
13h00 – 17h00

Objectives of Workshop

The workshop will aim at introducing the latest state-of-the art technologies used for the manufacturing of advanced optical components employed for critical applications in the automotive and aerospace industries. Technologies that are based on using natural diamond tool to shape optical profiles will be introduced in this workshop. This will include technologies such as ultra-high precision diamond turning and ultra-high precision grinding.

Workshop Draft Programme

Topic	Presenter		Time
Ultra-high precision technologies for optics making	Dr. Aaron Wei Yao Hsu	National Research Laboratories (Taiwan)	13:00-14:00
Intelligent Manufacturing system (IMS) on tool manufacturing	Prof. Ramesh Kuppuswamy	University of Cape Town	14:00-15:00
Research in ultra-high precision machining in NMMU	Prof. K. Abou-El-Hossein	NMMU	15:20-16:00
Ultra-high precision machining of silicon for Infrared Optics	Mr. Abubakar Jumare	NMMU	16:00-16:30
Ultra-high precision grinding of glass	Mr. Goodness Onwuka	NMMU	16.30-17:00