



24th International Conference & Exhibition  
10th – 14th June 2024, Dublin, Ireland

## Monday 10th June 2024

### Workshop 2: Precision Engineering principles and Simulation for micro and nano scale applications

Organized by: Prof. José A. Yagüe Fabra, University of Zaragoza, Spain, & Assoc. Prof. Guido Tosello, Technical University of Denmark, Denmark

Time	Programme
14:00 – 14:05	<b>Welcome and Introduction</b> <i>Prof. José A. Yagüe Fabra, University of Zaragoza, Spain, &amp; Assoc. Prof. Guido Tosello, Technical University of Denmark, Denmark</i>
14:05 – 14:20	<b>Atomic and close-to atomic scale manufacturing</b> <i>Prof. Xichun Luo, University of Strathclyde, Glasgow, Scotland, United Kingdom</i>
14:20 – 14:35	<b>Precision design principles for micro/nano scale machines and instruments</b> <i>Prof. José Antonio Yagüe-Fabra, University of Zaragoza, Zaragoza, Spain</i>
14:35 – 14:50	<b>Micro additive manufacturing with nano scale resolution by two-photon polymerization (2PP) – Process technology and machine development</b> <i>Dr. Markus Lunzer, UpNano GmbH, Vienna, Austria</i>
14:50 – 15:10	<b>Questions &amp; Answers</b>
15:10 – 15:25	<b>Break</b>
15:25 – 15:40	<b>Nano additive manufacturing by atomic layer deposition – Process technology and machine development</b> <i>Dr. Maksym Plakhotnyuk, ATLANT3D, Copenhagen, Denmark</i>

<b>Time</b>	<b>Programme</b>
15:40 – 15:55	<b>Simulation of surface manufacturing at micro/nano scales – Multi-physics and data-driven modelling</b> <i>Assoc. Prof. Guido Tosello, Technical University of Denmark, Kgs. Lyngby – Copenhagen, Denmark</i>
15:55 – 16:10	<b>Large range nano-positioning stage – Design and performance</b> <i>Assoc. Prof. Lucia Diaz, University of Zaragoza, Zaragoza, Spain</i>
16:10 – 16:25	<b>Measurement Uncertainty Assessment in Optical Performance of Functional Micro and Nano Structured Surfaces</b> <i>Dr. Jesús Paredes, Tekniker, Eibar – Bilbao, Spain</i>
16:25 – 16:45	<b>Questions &amp; Answers</b>
16:45 – 17:00	<b>Round table</b> <i>All the participants</i>
17:00	<b>Closing</b> <i>Prof. José A. Yagüe Fabra, University of Zaragoza, Spain, &amp; Assoc. Prof. Guido Tosello, Technical University of Denmark, Denmark</i>