

# 19<sup>th</sup> International SAOT Workshop on Laser Based Additive Manufacturing

April 29-30, 2013  
Erlangen, Germany



**FUTURE IN MANUFACTURING**  
**INDIVIDUALITY**  
**COMPLEXITY**

## Workshop Chair:

Prof. Dr.-Ing. Michael Schmidt (Chair)

## Local Organizing Committee:

Dipl.-Ing. Michael Karg  
Ms. Christina Ort

Monday, April 29	
08:30	<b>Registration</b>
09:00	<b>Schmidt, Michael</b> – University of Erlangen-Nuremberg, Germany <i>Welcome, Opening, Remarks and Brief Introduction to SAOT</i>
09:15	<b>Tromans, Graham</b> - G.P. Tromans Associates, UK <i>Global applications and Future perspective of Additive Manufacturing</i>
10:15	<b>Coffee break</b>
10:40	<b>Levy, Gideon</b> - <i>tba</i>
11:40	<b>Campbell, Ian</b> – University of Loughborough, School of Design Research, UK <i>Geometrical Freedom of Laser Sintering unlocks new Applications</i>
12:40	<b>Lunch break</b>
13:55	<b>Smurov, Igor</b> - Directeur du laboratoire DIPI ENISE, France <i>Integrated analysis of the direct metal deposition of steel-TiC composites by means of parametric study and optical diagnostics</i>
14:55	<b>Bergmann, André</b> – Fraunhofer IPK, Berlin, Germany <i>Publication Analysis of Additive Manufacturing and Experimental study on Tungsten Carbide Processing</i>
15:55	<b>End of the first Session</b>

Evening Program – Visit to Bamberg (*)	
16:30	Bus Departure from Hotel "Schwarzer Adler" to Bamberg
	<b>Guided Tour</b> in Historic City Centre
20:00	Dinner at restaurant “ <b>Nepomuk</b> ”
	Bus Transfer back to “Schwarzer Adler”

(\*) Applications are welcome (only restricted attendance possible)



Cathedral of Bamberg, “Little Venice”, German Emperor Heinrich II and his wife Kunigunde

Tuesday, April 30	
8:30	<b>Zäh, Michael</b> – Technical University of Munich, IWB, Germany <i>Methods for Increasing and Assuring Part Quality in Laser Based Additive Manufacturing</i>
9:30	<b>Rehme, Olaf</b> - Siemens AG, Berlin, Germany <i>tba</i>
10:30	<b>Coffee break</b>
10:55	<b>Bartolo, Paulo</b> - Polytechnic Institute of Leiria, Portugal <i>tba</i>
11:55	<b>Palm, Frank</b> – EADS Innovation Works, Ottobrunn, Germany <i>To master &amp; secure (high quality) AI-product materials by comprehensive pre-material (powder) &amp; build-up process (parameter) knowledge</i>
12:55	<b>Lunch break</b>
14:10	<b>Das, Suman</b> - Georgia Institute of Technology, George Woodruff School, USA <i>Large Area Maskless Photopolymerization and Scanning Laser Epitaxy: Disruptive Technologies for Additive Manufacturing and Repair of Hot-section Turbine Engine Components</i>
15:10	Bus Transfer from Uttenreuth to <b>Institute of Photonic Technologies (LPT)</b> and <b>Bayerisches Laserzentrum (blz)</b> in Erlangen
15:45	<b>Lab - Tour at LPT and blz</b>
16:45	<b>End of the 19th International SAOT-Workshop</b>



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## Conference Venue:

Hotel Schwarzer Adler  
Marloffsteiner Straße 17  
91080 Uttenreuth

[www.schwarzer-adler-uttenreuth.de](http://www.schwarzer-adler-uttenreuth.de)



Left: front of hotel "Schwarzer Adler", right: the "Gartensaal"