



Seventh Framework Programme

NMP Nanosciences, Nanotechnologies, Materials and new Production Technologies.

Large-scale integrating project – MULTILAYER

**Workshop on
Automation process integration, control and inspection issues for ceramic 3D structuring**

Wrocław, Poland, 14th May 2012

Organized by

- KMS/Germany
- KTH Royal Institute of Technology/Sweden
- French Atomic Energy and Alternative Energies Commission (Liten)/France

Topics

Recent developments in innovative automation issues of technologies developed within the Multilayer project such as laser structuring, punching, embossing and in-mould labelling will be presented. Associated process control methods and inspection via optical tools for determining the generated embedded 3D structures of Micro-Electro-Mechanical-Systems (MEMS) will be also described. The workshop will include oral presentations. Each participant will be allowed 30 minutes per presentation including questions/comments. All contributions will be presented on internet at <http://multilayer.4m-association.org/>.

Participation

Participation is open to all scientists interested in automation process and control for ceramic tape 3D structuring. There is no registration fee charged (deadline for registration per e-mail: 27th April 2012).

Language

The language of the workshop will be English.

Agenda Workshop on Automation process integration, control and inspection issues for ceramic 3D structuring (MULTILAYER project)

May 14th 2012 | Wrocław University of Technology | Długa, 61 | 53-633 Wrocław | Poland

May 14th 2012

13.30 – 14.00	Registration (Building M-11, Room 102)*	
14.00 – 14.10	Introduction and Welcome from Organisers	G. Hagen / KMS L. Mattsson / KTH
	<i>Inspection Session</i>	
14.10 – 14.40	Lecture “Challenges in Micro-nano metrology”	L. Mattsson / KTH
14.40 – 15.10	Lecture “Measurement of microstructures over large areas at nm-precision”	P. Ekberg/Micronic Mydata
15.10 – 15.40	Lecture “Measuring of embedded structures”	R. Su / KTH
15.40 – 16.00	Coffee break	
	<i>Automation Session</i>	
16.00 – 16.30	Lecture “Process control and monitoring in generative technologies”	Pr. E. Chlebus / Wrocław University of Technology
16.30 – 17.00	Lecture “Automated ceramic green tape structuring”	G. Hagen / KMS
17.00 – 17.30	Lecture “Automation issues of in-mould-labelling and embossing processes”	E. Ruprecht / KIT(-U)
17.30 – 18.00	Lecture “Machine concepts for automated stacking of ceramic multilayer products”	T. Kopp / KMS
18.00 – 18.10	Conclusion	
18.10	End of the workshop	
20.00	Dinner in Wrocław at “Spiz” restaurant (costs to be supported by each participant, 40€)	

* Place of the meeting easy to reach by **bus 128** to “**Długa Politechnika**”.

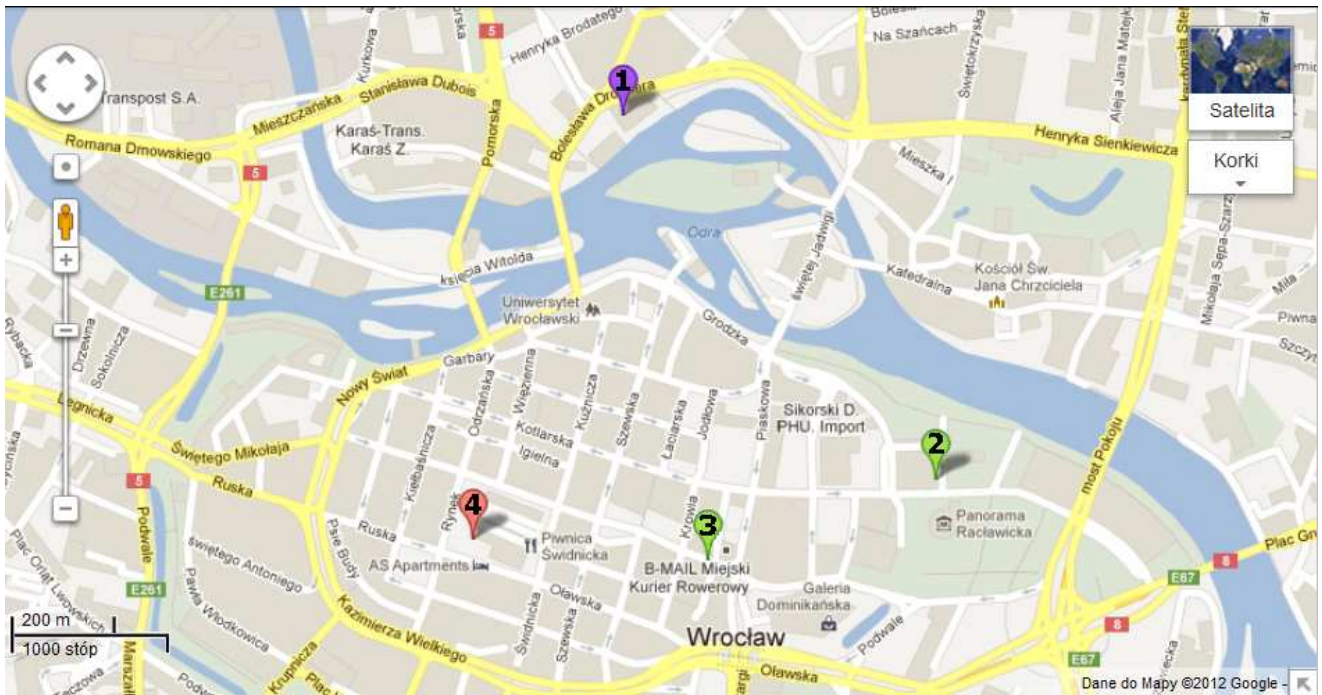
How to reach the restaurant “Spiż” (no. 4 on map 1)

◆ Address: Rynek Ratusz 2, 50-106 Wrocław

◆ Walking distance: around 1500 m from Plaza Hotel (see map 1)

around 1100 m from Radisson Blu Hotel (see map 1)

around 500 m from Lothus Hotel (see map 1)



Legend:

1. HP Park Plaza Hotel
2. Radisson Blu Hotel
3. Lothus Hotel
4. “Spiż” restaurant