

ICT – Collaborative Project

NANOBITS

Exchangeable and Customizable Scanning Probe Tips

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Duration: 36 months

Dissemination Level		
PU	Public	
PP	Restricted to other program participants (including the Commission Services)	
RE	Restricted to a group specified by the consortium (including the Commission Services)	
CO	Confidential, only for members of the consortium (including the Commission Services)	X

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1. Summary description of the deliverable content and purpose

As described in the DoW, the NanoBits consortium built up a network associated to the project. This network contains companies, research institutes and universities, including additional technology providers, technology observers as well as end-users from different other branches. The members of the network have been invited to a workshop for distributing project results. The date of the workshop was postponed, as discussed on the second review meeting, from M24 to M33. The workshop was held as a satellite event of the “Transducers and Eurosensors 2013” on 18.06.2013 in Barcelona, Spain.

2. Deliverable Report

The organization of the workshop was extensively discussed in the consortium. The result of this discussion was not to have a standalone workshop at one of the consortium partners, but to look for an appropriate conference and go for a satellite event. The aim was to open the opportunity to address more interested participants.

The consortium decided to organize a satellite event at the “Transducers and Eurosensors 2013 (T&E)”¹:

Transducers conference is the largest multidisciplinary conference on Microsensors, Microactuators and Microsystems, with about more than 1000 attendees from university, research institute, government and industry who gather every two years to exchange the latest advances in the field. The Transducers'13 conference is the 17th international conference on solid-state sensors, actuators and Microsystems of the TRANSDUCERS conference series started at 1981 in Boston (USA), and it is the first time for this conference to be held in Spain. The conference will feature four days of presentations and posters highlighting the latest and most technically advanced work in mechanical, optical, chemical, and biological devices and systems using micro- and nano-technology. Work of both a fundamental and applied nature will be featured.

The collaboration with the organizers of T&E was extremely difficult. Most probably due to the high workload at the organizing committee the response on e.g. e-mail was very slow. The first telephone and e-mail inquiry the workshop was sent in early January 2013, we received a confirmation as late as in April, so there were only few weeks left until the workshop for invitations.

¹ <http://transducers-eurosensors2013.org>

The workshop was announced as soon as we received the confirmation to a number of professional societies and distribution lists throughout Europe, incl.

- IDW,
- Bayern Innovativ,
- ELMUG,
- EPoSS,
- euRobotics,
- Hessen Nanotech,
- IMS,
- MINAM,
- Nano in Germany,
- ZeMPro.

Moreover, the workshop was announced in the individual networks of the consortium partners. As an official satellite meeting of the Transducers & Eurosensors conference the NanoBits workshop was announced on the conference website, in the program booklet and at the slides of the welcome session

The location of T&E was Centro de Convenciones Internacional de Barcelona (CCIB), Plaça de Willy Brandt, 11-14, 08019 Barcelona. Due to a lack of available conference rooms directly at the conference, the workshop took place not the same building, but in the nearest possible place: Hotel Diagonal Zero, Plaza de Llevant, 08019 Barcelona.

Agenda of the NanoBits satellite event as announced as follows²:

² <http://transducers-eurosensors2013.org/satellite-events/37>

Time	Topic	Presenter
14:30 h	Welcome of Participants; networking	
14.45 h	Overview: The NanoBits project	Dr. Albert Sill OFFIS e.V., Germany
15.15 h	Cantilever Development for Exchangeable and Customizable Scanning Probe Tips for 3-D AFM	Dr. Oliver Krause NanoWorld Services GmbH, Germany
15.45 h	BREAK	
16.00 h	Design and Fabrication of NanoBits	Dr. Alexey Savenko DTU Nanotech, Denmark
16.30 h	Assembly of NanoBits; 3D Scanning Modes	Malte Bartenwerfer OFFIS e. V., Germany
17.00 h	BREAK	
17.15 h	Tip-Enhanced Raman Spectroscopy with NanoBits: New Opportunities for Materials Characterization at the Nanoscale	Dr. Victor LeNader EMPA, Switzerland
17.45 h	High Performance Optical Micro and Nanostructures	Maria Oliva Fraunhofer IOF, Germany
18.15 h	END	

Unfortunately, there was, beside the NanoBits consortium members, only a little number of participants from the T&E participants, most probably the reason for this was that the T&E organizers scheduled some presentations on AFM topics in parallel to the workshop. In general comparison to regular paper contributions for international conferences, the workshop-style of the event was hardly beneficial. During regular technical sessions, one can reach roughly the same amount of people being interested in the particular topic. Nevertheless, there was a fruitful discussion at the workshop.