



*Germany / Russia*  
*Workshop Programme*  
*Nanolaser based Optical Sensing*

**Organizers:** Nanoinitiative Bayern GmbH, Gerbrunn / Germany  
 St Petersburg Physics and Technology Centre for Research and Education /  
 Russian Federation

**Date:** December 11<sup>th</sup>, 2008

**Venue:** St Petersburg Physics and Technology Centre for Research and Education  
 Room No. 321 / Khlopin str. 8/3, St Petersburg, 195220, Russia

**Language:** English

**Participation fee:** Free

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10:00-10:15	Opening Remarks	<ul style="list-style-type: none"> <li>• Z. I. Alferov, Chairman of St. Petersburg Physics and Technology Centre for Research and Education, St. Petersburg / Russia</li> <li>• Prof. Dr. A. Forchel, Head of Technical Physics and Microstructure Laboratory, University of Würzburg / Germany</li> </ul>
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10:15-10:45	Lecture	<b>Quantum Dot Lasers (for Gas Sensing Applications)</b> Prof. Alexey Zhukov / Ioffe Institute, St Petersburg and Member of the Russian Academy of Sciences (RAS); Dr. Maximov M.B / Ioffe Institute, St Petersburg
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10:45-11:15	Lecture	<b>1064 – 1320 nm Diode Lasers based on Quantum Dots</b> Dr. Daniil Lifshits, Product Manager Innolume GmbH, Dortmund / Germany
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11:15-11:45	Lecture	<b>Diode Lasers for Sensing Applications</b> Dr. Johannes Koeth, CEO nanoplus Nanosystems and Technologies GmbH, Gerbrunn / Germany
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11:45-12:15	Lecture	<b>Linear Fire Gas Detector: A new Approach for Monitoring inside Industrial Buildings using Nanostructured DFB Lasers</b> Dr. Johannes Koeth, nanoplus GmbH on behalf of Dr. Jörg Kelleter GTE GmbH, Viersen / Germany
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12:15-13:00	Lunch Buffet	
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13:00-13:30		<b>Nanowire Based Optoelectronics</b> Professor Vladimir G. Dubrovskii, St. Petersburg Physics and Technology Centre for Research and Education, St. Petersburg / Russia

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13:30-14:00	<b>Mid-infrared Single Mode Quantum Cascade Lasers for Gas Sensing</b> Sven Höfling, Würzburg University, Head of Optoelectronic Materials and Devices I Group, Würzburg / Germany
14:00-14:30	<b>Applications of laser diodes for improvement the performances of atomic frequency standards</b> Prof. Vadim S. Zholnerov, Adviser Director General of the Russian Institute of Radionavigation and Time RIRT St Petersburg, Head of the Laboratory for Prospective Radiophysical Researches, Doctor of Physics and Mathematics
14:30-15:30	<b>Discussion on potential collaborations</b> Speaker / Participants

## Location

St Petersburg Physics and Technology Centre for Research and Education  
Room No. 321, Khlopina str. 8/3, St Petersburg, 195220, Russia

## Center neighbourhood

### Center, Ioffe Institute and Metro station

