

LOCATION

INSA DE RENNES

20 avenue des Buttes de Coesmes
35708 Renne Cedex 7, France



INSA is a 20-minute car drive from Rennes Airport (bus no. 57 or Ker Lann Express) - Rennes/Saint-Jacques Airport



Rennes is 2 hours from Paris (Montparnasse station).
INSA is a 10-minute bus ride from the railway station in Rennes (bus no. 41 ex or subway until République station + bus no. 4 until INSA-bibliothèque bus stop)



INSA is a 10-minute bus ride from Rennes town centre – (bus no. 4 from République station) STAR bus services



Taxis rennais, from the railway station in Rennes or the airport.
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CONTACT

REGISTRATION

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ORGANIZATION

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INTERNATIONAL WORKSHOP

VCSEL DAY 2014

MAY 22-23, 2014
INSA DE RENNES – France



VCSEL DAY 2014 PROGRAM

Thursday, May 22		
10:00	Welcome @ Amphi GCU	
10:30	C. Levallois/C. Paranthoen	FOTON-CNRS
Welcome presentation		
HCG VCSEL & Polarization Issue in VCSEL		Chair: Guilhem Almuneau
10:40	Marcin Gebiski	Lodz University of Technology
High Contrast Gratings for GaAs-based 980 nm VCSELS		
11:00	Sujoy Paul	TU Darmstadt
Characterization of the Stokes parameters of the polarization behavior of the 1550 nm MEMS tunable VCSEL		
11:20	Werner Hofmann	TU Berlin
Finite High-Contrast Gratings for VCSELS		
11:40	Pierluigi Debernardi	IEIIT-CNR Politecnico di Torino
Finite HCG simulations: mode matching vs. FDTD approach		
12:00	Lunch @ INSA	
Industry / VCSEL Fabrication		Chair : Rainer Michalzik
14:00	Philipp Gerlach	PHILIPS Technologie GmbH ULM Photonics
VCSELS for Oxygen Sensing by TDLAS		
14:20	Markus Ortsiefer	VERTILAS GmbH
Recent Progress of InP-based Long-Wavelength VCSELS for Communications Applications		
14:40	Vincent Lecocq	INNOPTICS
Industrial integration of high coherence tunable VCSEL in the NIR and MIR		
15:00	Vladimir Iakovlev	EPFL - BeamExpress
High speed, low energy-to-data distance ratio, wafer-fused 1.3- μ m VCSELS		
15:20	Alexei Sirbu	EPFL
Wavelength control in fabrication of wafer-fused VCSEL emitting in the 1310 nm waveband		
15:40	Coffee Break	
VCSEL simulations		Chair : Pierluigi Debernardi
16:10	Michal Wasiak	Lodz University of Technology
Modelling of capacitance in VCSELS		
16:30	Maciej Dems	Lodz University of Technology
Self-consistent models of advanced VCSEL designs: from simple approximation to complex numerical analysis		
16:50	Yann Boucher	FOTON-CNRS
Simultaneous Use of Transfer and ABCD Matrices for Describing the Longitudinal & Transverse Mode Structure of a VCSEL Laser Beam: Principles and Problems		
17:10	Tomasz Czystanowski	Lodz University of Technology
Comparison of spatial anti-guided mechanism in single emitter VCSELS and VCSEL arrays		
17:30	Coffee Break	
20:00	Dinner @ La Reserve	

Friday, May 23			
New Functionalities / New applications		Chair: Dan Birkedal	
08:40	Sebastien Chaudron	ISAE	VCSEL and VECSEL for space applications
09:00	Jean-Michel Lamy	EPFL	InGaN/GaN double heterostructure VCSEL
09:20	Guilhem Almuneau	LAAS-CNRS	Planar technological solutions for embedded oxide-based confinement for new VCSELS architectures
09:40	Véronique Bardinal	LAAS-CNRS	Recent progress on polymer MOEMS technology for VCSEL beam control at LAAS
10:00	Coffee Break		
Datacom/Telecom		Chair : Vladimir Iakovlev	
10:30	J. A. Lott	TU Berlin	980nm VCSELS for on-chip photonics
10:50	Alexander Andrejew	TU Munich	100-GHz spaced monolithic 1.55- μ m VCSEL arrays for metro network applications
11:10	Laurent Bramerie	FOTON-CNRS	Test-bed facilities for VCSEL assessment for next-generation 100 Gb/s metro networks
11:30	Andrei Caliman	EPFL - BeamExpress	Record Single-Mode Power of 1.3 μ m VCSELS Made by Wafer Fusion
11:50	Vladimir Iakovlev	EPFL - BeamExpress	Information on COST actions on Health and photonics diagnostics
12:00	VCSEL DAY Conclusion/ Next VCSEL-DAY		
12:10	Lunch & St-Malo Tour		
19:00	Back to Rennes		

