

**AITC – II, Organized by ACREO Swedish ICT and KTH**  
**“Optical communication systems with coherent technologies”**

**ANNUAL INTENSIVE PHD TRAINING COURSE (AITC) – II**  
**Within Marie curie project ICONE**

Date: (Week 10) March 7, 2016 March 11, 2016

Location: Acreo Swedish ICT (Elevator B, 6th floor, room Knuth), Isafjordsgatan 22, Kista, Sweden

Organized by **Oskars Ozolins** (ACREO Swedish ICT), **Gunnar Jacobsen** (ACREO Swedish ICT) and **Sergei Popov** (KTH)

Content: Background lectures, demo and lab tours

Monday, March 7 <sup>th</sup> 2016, collocated with <u>GRIFON</u> project			
Time	Title	Presenter	Activity
09:00-09:15	Welcome	<b>Sergei Popov</b> , KTH <b>Gunnar Jacobsen</b> , ACREO Swedish ICT	
09:15-10:30	Fiber and Wireless Convergence for Next Generation Optical Access Networks	<b>Xiaodan Pang</b> , ACREO	Lecture
10:30-11:00	Coffee break		
11:00-12:30	Distributed Amplification for Nonlinearity Management and Compensation 1	<b>Juan Diego Ania Castañón</b> , CISC	Lecture
12:30-13:30	Lunch break		
13:30-15:00	Distributed Amplification for Nonlinearity Management and Compensation 2	<b>Juan Diego Ania Castañón</b> , CISC	Lecture
15:00-15:30	Coffee break		
15:30-17:00	Engineering of Nonlinear Optics	<b>Valdas Pasiskevicius</b> , KTH	Lecture

Tuesday, March 8 <sup>th</sup> 2016, collocated with <u>GRIFON</u> project			
Time	Title	Presenter	Activity
09:00-10:30	Coherent Optical Signal Analysis	<b>Rabee Alhayek</b> , Lecroy	Lecture
10:30-11:00	Coffee break		
11:00-12:30	Demonstration of Lecroy Real-Time Optical Modulation Analyzer	<b>Rabee Alhayek</b> , Lecroy	Demo
12:30-13:30	Lunch break		
13:30-15:00	High Speed Complex Signal Generation and Analysis with Tektronix Solutions	<b>Fredrik Nordwall</b> , Tektronix	Demo
15:00-15:30	Coffee break		
15:30-17:00	Best Practices for Modeling Optical Transmission Systems	<b>Hadrien Louchet</b> , VPIphotonics	Lecture

Wednesday, March 9 <sup>th</sup> 2016			
Time	Title	Presenter	Activity
09:00-10:30	Optical Frequency Comb Technology for Optical Communication Systems 1	<b>Victor Torres Company</b> , Chalmers	Lecture
10:30-11:00	Coffee break		
11:00-12:00	Optical Frequency Comb Technology for Optical Communication Systems 2	<b>Victor Torres Company</b> , Chalmers	Lecture
12:00-13:30	Lunch break		
<b>Day will continue at <a href="#">Infinera premises</a>. Buss will travel between locations</b>			
13:30-15:00	Coherent Optical Communication for Metro/Regional Applications: Design Challenges, Market Trends and Infinera Solutions	<b>Magnus Olson</b> , Infinera	Lecture
15:00-15:30	Coffee break		
15:30-17:00	Coherent Optical Communication for Metro/Regional Applications: Design Challenges, Market Trends and Infinera Solutions	<b>Magnus Olson</b> , Infinera	Lab tour

## AITC – II, Organized by ACREO Swedish ICT and KTH

Thursday, March 10 <sup>th</sup> 2016			
Time	Title	Presenter	Activity
09:00-10:30	Narrow Linewidth Lasers for Coherent Communication Systems	Urban Eriksson, Finisar	Lecture
10:30-11:00	Coffee break		
11:00-12:30	From KHz to THz – The Prehistory of Coherent Communication	Richard Schatz, KTH	Lecture
12:30-13:30	Lunch break		
13:30-15:00	A Path to Networks with Security and Integrity	Christian Gotare, Clavister	Lecture
15:00-15:30	Coffee break		
15:30-17:00	Optical Networking in the 5G Era: Challenges and Opportunities	Paolo Monti, KTH	Lecture
18:00-21:00	Dinner for ICONE and GRIFFON		

Friday, March 11 <sup>th</sup> 2016			
Time	Title	Presenter	Activity
09:00-10:30	Application of Machine Learning Techniques in Optical Communication	Darko Zibar, DTU	Lecture
10:30-11:00	Coffee break		
11:00-12:30	Silicon and Plasmonic Nanophotonics for Optical Communications and Interconnect	Lars Thylen, KTH	Lecture
12:30-13:30	Lunch break		
13:30-14:30	Laboratory Tour in Swedish ICT/KTH		Lab tour
14:30-15:00	Coffee break		
15:00-16:00	Examination (for ICONE ESR Fellows)		MCQ
16:00-	Closing remarks	Sergei Popov, KTH Gunnar Jacobsen, ACREO Swedish ICT	

