

AGENDA

(agenda v21)

FRONT-EDGE Workshop, Barcelona July 7th-9th

UPC Campus Nord, Vertex, Plaça d'Eusebi Güell, 6, 08034 Barcelona

gmaps location: <https://goo.gl/maps/djYDqNeo6s92NXq16>

<https://aco.upc.edu/en/research/optical-access-networks/front-edge-workshop>

Wednesday, July 7th

Time	TITLE	Name	Affiliation	Country
13:30	Registration and Covid19 measures Sandwich & Coffee			
14:00	Workshop wellcome	UPC VR Jordi Llorca & Josep Prat		
14:20	Presentations, introduction	all		
14:40	Session 1.-Future optical networks (Chair: Ioannis Tomkos)			
14:50	Toward intelligence in photonic systems	Darko Zibar	DTU	DN
15:10	Intent-based Networking for Optical Transport-Edge Networks	Luis Velasco	UPC	ES
15:30	Coffee Break			
15:50	Fixed 5G standardization directions in ETSI and F5	David Hillerkuss	HUAWEI	GE
16:10	Towards Converged Optical and Wireless Fronthaul Solutions for 5G and Beyond Networks	Paulo Monteiro	IT-UNIV.AVEIRO	PT
16:30	i2CAT's 5G Network Slicing approach	Miguel Catalan	i2CAT	ES
16:50	Models for Edge Network Resource Optimization in C-RAN	Nicola di Cicco	UniBo	ES
17:10	Q&A panel	all		IT
17:30	Closing 1st day & shuttle bus	all		
18:15	Walking tour	all		
20:30	Social dinner by the sea	speakers		
22:45	Shuttle bus			

Thursday, July 8th

08:45	Shuttle bus			
09:20	Session 2.-Advanced Subsystems (Chair: Josep Prat)			
09:30	Technical options for PON transmission above 50 Gbps per wavelength	Roberto Gaudino	PoliTo	IT
09:50	The impact of point to multi point XR optics on the architecture of Optical networks	Antonio Napoli	INFINERA	GE
10:10	Advanced digital signal processing for broadband access (tbc)	Robert Killely	UCL	UK
10:30	Coffee break			
10:50	Enhancing the Performance of low cost optical Transceiver Technologies	Werner Rosenkranz	Univ. KIEL	GE
11:10	Statistical udWDM multiplexing	Josep Segarra	UPC	ES
11:30	Low cost coherent access RXs	Jeison Tabares	UPC	ES
11:50	Q&A pannel discussion	all		
12:10	Visit to GCO lab and demos on udWDM-PONS	all		
13:00	Lunch			
14:00	Maremastrum supercomputer			
14:50	Session 3.-Advanced Enabling Technologies (Chair: Roberto Gaudino)			
15:00	Ultra-dense spatial&spectral swithing	Dan Marom	Hebr. Un. Jerusalem	IS
15:20	Evolution of PON transceiver technologies	Antonio Teixeira	Instituto de Telecomunicações	PT
15:40	Secure quantum communications test-bed at Eindhoven	Idelfonso Tafur	TUE	NL
16:00	Coffee break			
16:20	Plasmonics - an Enabling Technology for Highest Speed	Juerg Leuthold	ETH .ZURICH	SW
16:40	50 Gbps Passive Optical Network (50G-PON): Challenges and Current Developments	Ricardo Rosales	Huawei	GE
17:00	Present and future Passive Optical Networks enabled by Photonic Integrated Circuits	Francisco Rodrigues	PICAdvanced	PT
17:20	Continuous Variable Quantum Communications	Valerio Pruneri, Samael S.	ICFO	ES
17:40	Pannel discussion	all		
18:00	Closing 2nd day			
19:30	Social dinner (Gallery hotel)	speakers		
21:20	Cultural visit (La Pedrera)	speakers		

Friday, July 9th

09:20	Session 4.-Converged Networks and new Applications (Chair: Antonio Teixeira)			
09:30	Converged 5G networks; 5Gcomplete & Marsal EU projects	Christos Verikoukis	CTTC	ES
09:50	Towards reconfigurable p2mp fiber wireless fronthaul networks based on Silicon Photonic ROADMs and 60GHz Phased Array Antenna for multi-user mmWave C-RANs	Chris Vagionas	ARISTOTELE Univ.	GR
10:10	Coffee break	all		
10:30	The EU vision for 6G networks	Ioannis Tomkos	UNIV.PATRAS	GR
10:50	Comparing transport options for Small Cell X-Hauling in the Sub-6GHz region	Albert Rafel	BT	UK
11:10	5G fronthaul over partially-disaggregated WDM/SDM network	Josep M. Fabrega	CTTC	ES
11:30	Panel on Networks and Applications	all		
11:50	Panel on Subsystems and Technologies	all		
12:10	Research programmes, funding opportunities, strategic future research	all		
13:00	Lunch / visit	all		
14:00	Pre-recorded presentations	all		
14:20	Workshop Closure	all		
14:40	Meetings	all		
19:00	Beach-boley match	all		
20:00	Social dinner	speakers		