BRITESPACE	Final Program (18/11/15)

Workshop on "Laser Diodes for Space Applications"

Date	November 23-24, 2015
Venue	Auditorium. III-V Lab, Campus Polytechnique 1, Avenue Augustin Fresnel, F-91767 Palaiseau Cedex, France.

Monday November 23		
Time	**Duration**	**Topic**
14:00	10 min	Welcome to III-V lab
14:10	10 min	Welcome to the workshop (Ignacio Esquivias, UPM)
14:20	**90 min**	**Session 1: (Chairman: Ignacio Esquivias, UPM)**
	30 min	*Failure physics of laser diodes. Historical issues and recent updates.* (Massimo Vanzi, University of Cagliari)
	30 min	*Sudden degradation of AlGaAs-based high-power diode lasers: Analysis of bulk and facet failures.* (Jens Tomm, Max-Born Institute)
	30 min	*Space qualification strategy for laser diodes* (Olivier Gilard, CNES)
15:50	**30 min**	***Coffee break***
16:20	**100 min**	**Session 2: (Chairman: Michel Krakowski, III-V Lab)**
	30 min	*High-brightness multi-section semiconductor laser for space-borne lidar measurements of atmospheric carbon dioxide.* (Ignacio Esquivias, UPM)
	30 min	*8 Years in Space: Laser Diode Pump Modules in the Laser Communication Terminal* (Hanno Scheife, TESAT Spacecom)
	20 min	*Low-noise pump sources for laser communication terminals* (Karl Häusler, FBH)
	20 min	*A unified multiple stress reliability model for 1.55 µm DFB laser diode module for space validation.* (Alain Bensoussan, IRT Saint Exupery/Thales)
18:00		***End of first day***

20:30 Workshop dinner

Tuesday November 24		
Time	**Duration**	**Topic**
09:30	**70 min**	**Session 3: (Chairman: Martin Traub, Fraunhofer ILT)**
	30 min	*Semiconductor laser development for space applications at III-V lab* (Frédéric van Dijk, III-V Lab)
	20 min	*Passive coherent combining of two high-brightness tapered laser diodes in a Michelson external cavity* (Guillaume Schimmel, Institut d'Optique)
	20 min	*A versatile technology platform for micro-integration of diode-laser based, space compatible modules* (Ahmad Bawamia, FBH)
10:40	**30 min**	***Coffee break***
11:10	**90 min**	**Session 4: (Chairman: Frédéric van Dijk, III-V Lab)**
	30 min	*Beam Shaping of High Power Laser Diodes for Space Applications.* (Martin Traub, Fraunhofer ILT)
	30 min	*Evolution and perspectives of QCW high power laser diodes for space applications* (Andreas Kohl, Quantel)
	30 min	*Space qualified solutions with high-power diode lasers.* (Martin Wölz, Jenoptik)
12:40	**60 min**	***Lunch break***
13:40	**90 min**	**Session 5: (Chairman: Juan Barbero, ATN)**
	30 min	*Laser diode reliability testing for Space applications* (Lip Sun How, Adveotec)
	30 min	*Testing and evaluation of laser diodes for space applications at ESTEC.* (Jorge Piris, ESA)
	30 min	*Testing of laser diodes for space applications at ALTER* (Juan Barbero, ATN)
15:10	**30 min**	***Coffee break***
15:40	**60 min**	**Session 6: (Chairman: Gerhard Ehret, DLR)**
	20 min	*Discrete Mode Laser Diodes emitting at λ~689 and 780nm for Optical clocks applications.* (Richard Phelan, Eblana)
	20 min	*Dual-frequency VECSEL for atomic clocks using coherent population trapping* (Paul Dumont, Institut d'Optique)
	20 min	*Optoelectronic modules and sub-systems for laser-based satellite communications* (Efstratios Kehayas, Gooch & Housego)
16:40	**10 min**	**Concluding Remarks (Ignacio Esquivias, UPM)**
16:50	**60 min**	**III-V Lab tour**
17:50		***Workshop Ends***