## Minutes from OpenPICs WP 3 meeting 13-02-2017

Part I (14:00-15:15): Weiming (chairing), Longfei, Saeed, Ronald, Rui, Valentina, Kevin, Meint, Luc, Pim

Agenda points	Responsible
WP 3.1 BB Design	TU/e, Bright
WP 3.2 PDK Content	Smart, TU/e
WP 3.3 BB Characterization	Smart, TU/e
WP 3.5 Demonstrator	Effect, Technobis

## Discussion/action points

Nr.	Description	Responsible
1.	Modulator Development	Weiming,
	Effects MQW stack will be used in SP20 on split batch wafers with active passive	Saeed
	integration. TU/e will do design of modulator and requires simplified electrical	
	model information from Effect. Semi-insulating substrate will be used.	
2.	Al-MQW Development	Longfei,
	Al containing MQW material will be grown in WP4. Both Smart and Effect have	Weiming,
	mask sets for broad area lasers and etch depths tests that are useful here. We	Rui, Saeed
	need to review those and identify their suitability for this test. Al-MQW design	
	for modulators will follow.	
3.	RF lines	Weiming
	Recap of RF line concept with simulation data showing 6 μm dielectric thickness	
	is needed to achieve 80 GHz bandwidth on 3 mm length. Two layer metal with	
	BCB as dielectric will be tested in WP4.	
4.	Tunable Laser Development	Ronald
	Grating test structures are being designed by Bright for SP20 including SG DBRs.	
	Bright is aligning its designs with TU/e project on gratings as well. Lionix role in	
	openPICs was identified to fabricate Triplex chip and perform hybrid integration.	
5.	MPW Schedule and its featues (unchanged from last meeting)	Rui, Roel
	Schedule of MPW runs and the planned features per run is needed. Information	
	on MPW cell area assignment for SP20 in openPICs is requested.	
6.	BB Test Cell	Erik/Rui,
	We are in the process of revising the BB test cell and exchanging measurement	Weiming
	data through a shared repository. A benchmark test structure in form of an AWG	
	will be considered.	

Part II (15:15-15:40): Weiming (chairing), Saeed, Ronald, Marcel, Remco, Meint, Kevin

Agenda points	Responsible
WP 3.4 Design Environment	Phoenix, Bright, TUe

## **Discussion/action points**

Nr.	Description	Responsible
1.	Environment for Building Block Entry	Marcel,
	Lennard (Phoenix) is starting to create documentation on how to enter building	Remco
	block. First BB to be entered will be IMOS MMI and performed by Amir.	
2.	Documentation of design workflow for Smart, HHI	Marcel,
	Formal documentation of the workflow as of now for designing for Smart and	Remco,
	HHI foundries is needed, covering from mask generation to BB replacement and	others
	final wafer assembly. This documentation can act as basis to improve on existing	
	problems. In addition, a time plan for foundry PDK release and its alignment to	
	MPW tape-out will be drafted. Phoenix will start and circulate drafts to other	
	partners to complete.	
4.	Milestones Planning (unchanged from last meeting)	Marcel,
	Based on list of existing milestones in WP3.4 Phoenix will draft a more detailed	Remco
	planning involving subtasks and corresponding time frames. That will be first	
	internally discussed in Phoenix and circulated to project partners afterwards.	
5.	Phoenix personnel	Marcel,
	Phoenix will send a person to be at TU/e to support software environment tasks.	Remco

Next meeting: Part I 14:00-15:00, Part II 15:00-15:30, 27-02-2017, Flux 10.177