

Minutes from OpenPICs WP 4 meeting 01-05-2017

Present: Longfei, Rui, Steven, Rob, Tjibbe, Weiming

Discussion/action points

Nr.	Description	Responsible
1.	Al-MQW The Al-Q will be calibrated in both Nanolab and Smart reactors. The design should be ready in this month from WP3.	Weiming, Longfei
2.	Zn diffusion tests The first run of test has been finished. A few conclusions are shown in the slides (attached) and discussed in the meeting. Next plans (May-June): 1. Get an empirical model based on more data points with the standard MPW layerstack. 2. SIMS measurement. Rob will send Rene the contact of a British supplier. 3. Test with mask opening. Longfei proposed a mask to do this (in the attached slides). He will follow up on the design. 4. Think through the test plan (cell design) for the MPW validation (SP 22).	Rene Rob Longfei
3.	BCB planarization Planarization test has been done on the sample from Smart. Tjibbe is waiting for Tencor to be operational for the measurement. Etching will also be tested, using two recipes: the standard one and the one developed for thicker BCB etch.	Tjibbe
4.	Stepper process The maintenance of Stepper is almost done. Experiments planned this month.	Robert
5.	Etching process Rui optimized the CH ₄ -H ₂ recipe to give ~3 degree side-wall angel in Smart's ICP. A few more fine-tuning is planned, then it will be tested and transferred to the Nanolab's ICP. Longfei is preparing 4 wafers for the first test with the Cl ₂ -CH ₄ -H ₂ recipe given by Oxford. Fine-tuning and DOE will be planned based on these results. To check the side-wall angel, both Xsection SEM and CD-SEM will be taken. Rui will send his recipe for the Xsection SEM, so all results can be compared directly.	Rui Longfei
6.	Planning and milestone list The milestone list with quantified criteria has been sent around. Each responsible person should check their own items. The plan for the next 6 months attached to that milestone list has been discussed in the meeting. Two changes: 1. More tests are required for the Zn diffusion, before it can be transferred to MPW (SP22, as planned). 2. SSC will be first tested in separate runs (dedicated) before it can be transferred to MPW (SP22, as planned). Longfei and Weiming will update the planning (MPW BBs) for WP3-WP4, and re-confirm with partners it in the next WP3 meeting.	Everyone Longfei, Weiming

Next meeting: 13:30-15:00, 29-5-2017, Flux 10.177