

Lab Status at a Glance, 10 am Tuesday, May 27

Lab Priorities: asml, raith

E-Beam, SEM & Maskmaking

ebeam	up	
raith	down	Turbo problem? Vendor due in to repair.
sem4160	up	
semhitachi	up	

Optical Photolithography

-----Resist Coat-----

headway2	up	
laurell-R	up	
svgcoat/2	up	Track 1 HMDS/vapor prime module is not working. Please report any problems esp. with the recipe manager on the problem log at the station, so vendor can address this.
kscoat	up	More info about this to follow!

-----Exposure-----

asml	down	Loud clunking noise observed. ASML Field Service called.
evalign	up	Mask sensor cleaned. Yellow lighted in problem reappears.
evalign2	up	A new system, courtesy of the Cabrera group! Stay tuned for more info.
evg-imprint	up	Lamp intensity low.
karlsuss	up	Backside align OK now.
karlsuss2	up	
nikon	up	But lamp turned off to conserve bulb life. If you need this, notify staff in advance to restart the lamp (requires several hours to stabilize.)

-----Develop-----

svgdev/2	up	
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-----Oven Bake & Cure-----

bluem	down	Does not heat and blows fuses. Troubleshooting underway.
fusion	up	
uvcure	up	
white-oven	up	This is now on Coral. Reserve to use. Contact Staff to get qualified.
yes	up	

Chemical Vapor Deposition

-----Low Pressure CVD-----

teos2	up	
thermconitride1	up	
thermcopoly1	down	Fails leakcheck. TC Sheath broken.
thermconitride2	down	Under process development.
thermcopoly2	up	
tylanbpsg	up	Particles observed. Not recommended for critical operations. Investigation continues.
tylannitride	up	Up
tylanpoly	up	
tylansige	down	Failed leakcheck. Under investigation.

-----PECVD-----

sts	up	RF problem noted in etchback recipe.
tel	down	Pumps are off. MW Gen fail.

-----Other CVD-----

ald	up	
epi	up	Burnbox working nicely. DCS chiller temp is high; new unit on order.
epi2	down	HCl cylinder valve problem.

Metallization and Sputtering

gryphon	up
innotec	up
metalica	up
sct	up

Dry Etching

amtetcher	up	Pump down problems reported several times, only at night. Under investigation. Clips to be checked.
drytek1	up	
drytek2	up	
drytek4	up	
gasonics	up	
lampoly	up	
matrix	up	
mrc	up	
p5000etch	up	ChA offline for maintenance.
pquest	up	Cl2 regulator needs repair. Meanwhile, cannot control low Cl2 pressure/flow.
pquest2	down	installation.
stsetch	up	
stsetch2	down	Leak in the loadlock.
xactix	up	Small leak observed.

Annealing, Oxidation, and Doping

-----Furnaces-----

fga2	up
thermco1	up
thermco2	up
thermco3	NA
thermco4	NA
tylan1	up
tylan2	up
tylan3	up
tylan4	up
tylanfga	up

-----Rapid Thermal Processing-----

AG4100	up	Process qual done, requires Superuser checkout.
AG4108	up	Process qual required.
rtaag	up	
rtagaas	up	
<i>-Doping</i>		
tylan5	up	
tylan6	up	

Wet Benches

cpd	up
lithosolv	up
solvhood	up

tubeclean	up	
wbdiff	up	
wbebres	up	
wbgaas	down	Spin-etch tool installation adjacent to this.
wbgeneral	up	
wbgen2	up	“Clean” station, for germanium cleans. Users requiring wafer cassette processing of gold-contaminated materials, contact Mary & Uli.
wbmetal	up	
wbmiscres	up	
wbnitride	up	
wbnonmetal	up	
wbsilicide	up	Will be switching one pot over to gold-contaminated piranha cleans and one dump rinse for gold-contaminated rinse. This is temporary until the spin-etch tool is installed (see note for wbggen2.)
wbsolvent	up	

Wafer Bonding & Sawing

cmp	up	Non-metal setup.
evbond	up	Glass plate broken.
ksbonder	up	
thermolyne	up	
wafersaw	down	Saw blade stuck.

Characterization & Testing

alphastep	down	Camera now works, but XY stage damaged. Sent out for repair; ETA two weeks.
afm2	up	
ellipsomter	up	
nanospec	up	
nanospec2	up	
prometrix	up	
p2	up	Loaner system in place. Please use care.
stresstest	up	Intermittent stage home and Z-height problems. Usable, but needs frequent resetting (instructions at the station.) New Flexus arrived, needs setup and qual.
woollam	up	
zygo	up	FTP disabled; use SSH (more secure) or save data to CD.