



1st TCT Workshop

The Do's



The Don'ts

Discussion

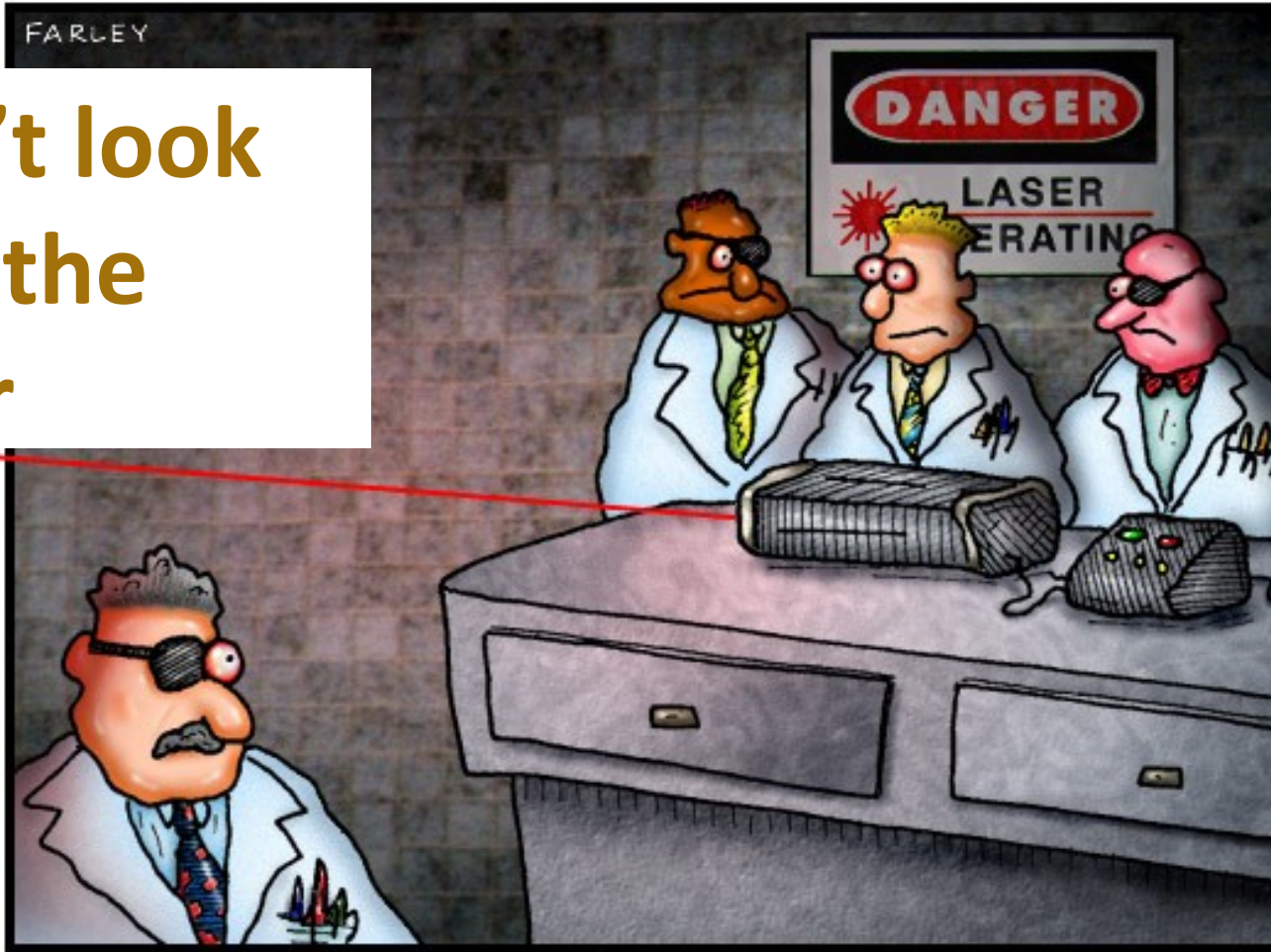


DOCTOR FUN

FARLEY

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Don't look
into the
laser



Peer pressure in the laser lab

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<http://sunsite.unc.edu/Dave/dr-fun.html>

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- Clean the sensor after preparation and before attaching it to PCB / test box properly
- Initialize all devices before each measurement
 - Program crashes when stages have been moved by hand
- Switch off power of the motion stages if you want to disconnect stage from controller
- Use bias-T whenever possible
- For strips: connect neighbour strips to same potential as bias ring (HV/GND)
 - At least the next 2 strips
- For PCB try to get impedance matching layout
 - Reduce / avoid “ringing”
- make sure everything is shielded with as few of “patch-connections” as possible
- Impedence matching (ideally frequency independent impedance)



- Don't overwrite your measurement data
- Don't use more than 200 different voltages for one scan
- Don't use too many consecutive commands in the measurement program or it will crash
- Don't use the strip next to the sensor edge
 - Better to use at least the 5th strip (no problem with edge effects)



- If PSTCT crashed and the voltage is not 0V, ramp down by hand. Restarting the software and setting a voltage, the power supply will start at 0V and ramp to the new voltage.