

## DSG-EIC DIRC Meeting

**Date: August 21, 2023**

**Time: 2:00 PM – 2:30 PM**

*Attendees: Aaron Brown, Imani Burton, Pablo Campero, Brian Eng, George Jacobs, Greg Kalicy, Tyler Lemon, Marc McMullen, Jennifer Williams, and Beni Zihlmann*

### **1. Training required to work in laser controlled area**

1. Laser Worker Training (SAF1140); contact Jennifer Williams
2. Eye Exam for Laser Workers (MED02); contact Occupational Medicine
3. Task-specific laser training; will be given once laser controlled area is fully set up

### **2. EEL 108 laser test area setup**

*Greg Kalicy, George Jacobs, , Tyler Lemon, Marc McMullen, and Beni Zihlmann*

1. Facilities Management request submitted to install make-up air intake with HEPA filter for room and cable trays to route laser interlock system cabling to external devices
  - Tasks assigned in Facilities Management system; discussion in progress on how to complete tasks
2. Greg will confirm with Walt Akers that EEL 108 area is reserved for EIC DIRC
3. George and Marc will create a to-scale diagram of EEL 108 to assist with planning
  - Location of bar cleaning station
  - Location of storage cabinet
  - Procedure and route for moving quartz bars

### **3. Jennifer Williams will procure laser safety glasses**

*Imani Burton, Tyler Lemon, and Jennifer Williams*

1. Safety glasses must be worn in laser room while laser can be powered
2. Jennifer Williams will send information for dimensions of safety goggle's case so appropriate storage for goggles can be found

### **4. Short-term storage and transportation cart**

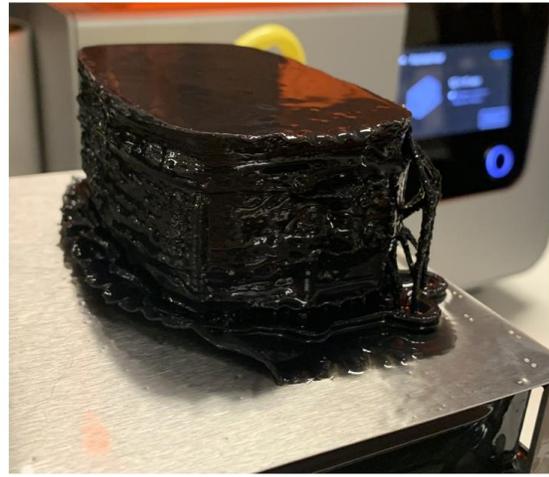
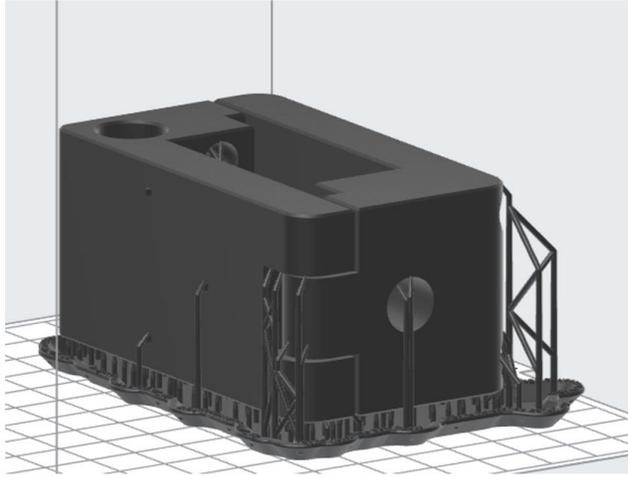
*George Jacobs and Greg Kalicy*

1. Greg will send information and specifications of cart previously used at GSI
2. George is investigating cart possibilities
3. Cart needs to have removable cover to be able to easily load and unload bars, but keep dust off of them during short-term storage and transport

### **5. 3D printing of quartz bar horseshoe clamps**

*Greg Kalicy and Tyler Lemon*

1. Debugging DSG's Formlabs SLA printer to resolve print failures
  - Received test materials from Formlabs to continue debugging
  - Going through their test procedure to determine cause and resolution of issues
2. If issues resolved, move forward with printing horseshoe clamps and clamp fixtures
3. If issues not resolved, contact other groups at JLab or GSI with 3D printers to see if they are able to print items for us



Left: model of one horseshoe clamp in 3D printer's software.  
Right: failed print on printer's build platform.

6. Starting on August 28, 2023, meetings will be held weekly with every other meeting being in person
  1. Remote meetings will remain as scheduled on calendar
  2. A second series of meetings will be set up for the in-person meetings