

# Quarknet 2016 - Vanderbilt University

## 25-29 July 2016

**Welcome!**

The week in a nutshell:

**Monday Morning**, news and talks

**Monday Afternoon**, talk Gravitational Waves, Sources and Detectors, login to eLab

**Tuesday & Wednesday**, Ken Cecire, tutorial on LIGO seismometer array and LIGO eLab

**Thursday**, day trip to Huntsville (bring drivers license)

**Friday Morning**, demos and debrief

# Administration

- Introductions around the room.
- Make sure you check the day on the **attendance sheet**. It is how the stipend will be calculated. Check it and sign it your last day in attendance.
- We have **three** working sets of cosmic ray muon detectors (CRMDs) and have old, but nice laptops for datataking and control. We have a **fourth** set with non-standard (small) scintillator paddles.
- Using the “standard” Java program *Equip* to control the boards/detectors.
- Marshall Space Flight Center wants copies of driver’s license for those going on the bus tour.

# Monday Schedule

## **news and talk**

8:00-8:30am arrive, parking permits for the week, **check the attendance sheet**

8:30-8:45am the weeks schedule, Bill Gabella

8:45-9:15am CERN's Large Hadron Collider, Bill Gabella

9:15-10:15am CMS Physics and Computing, Andrew Melo

10:15-10:25am break

10:25-11:25am Cosmology and Large Scale Surveys, Andreas Berlind

11:25-12:25pm CMS and upgrades, Will Johns

12:25pm-1:30pm Lunch

## **gravitational waves**

2:00-3:00pm Gravitational Waves, Sources, & Detectors, Bill Gabella

3:00-3:30pm Check eLab logins for LIGO, checkout CRMDS and Equip (Java) program

# Tuesday and Wednesday Schedule

## **Quarknet LIGO/Gravitational e-Lab with Ken Cecire (Fermilab)**

See the agenda at: <https://quarknet.i2u2.org/content/ligo-e-lab-workshop-vanderbilt>

### **Tuesday**

8:30-9:00am Arrive

9:00-noon Work

noon-1:00pm Lunch

1:00pm-4:30pm Work

### **Wednesday**

8:30-9:00am Arrive

9:15-noon Work

noon-1:00pm Lunch

1:00-3:00pm Work

# Thursday Schedule

**Day Trip to Huntsville, Space and Rocket Center with 12:30pm Bus Tour, BRING DRIVER'S LICENSE and for tour must be a US Citizen**

9:00am Arrive at the Educator Resource Center in the Education Training Facility, 1 Tranquility Base, Huntsville, AL 35805

9:15am Overview of the Center, Scott Anderson

9:30am SLS Presentation and Discussion, Kimberly Robinson

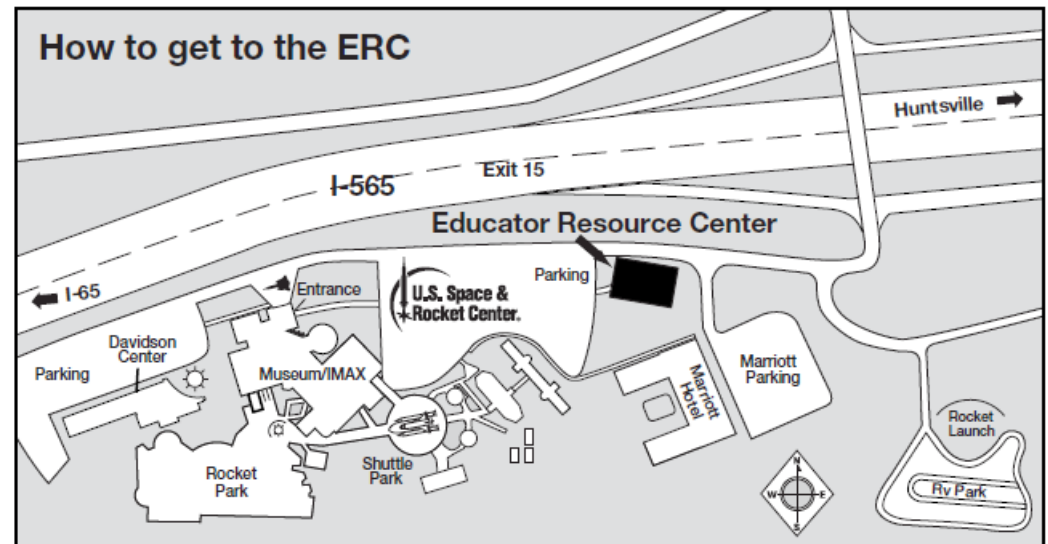
10:30-11:15am Walking tour of USSRC, Scott Anderson

11:15-12:15pm Lunch

12:00pm Check-in for Bus Tour

12:30pm Bus Tour of Marshall Space Flight Center, up to 2 hours, restroom facilities limited

5pm? Bill thinks he wants to stay until dinner in the local area; Center closes at 5pm.



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# Friday Schedule

## Flexible day

9:00-noon Assemble Gravity demonstrations with Terry King

noon-1pm Lunch

1:00-3:00pm Cosmic Ray Muon Detector and Closeout