



# SCIENCE EXPO OCT 2013 AGENDA AND INSTRUCTIONS



## Dear Science Expo Volunteers,

Thank you so very much for volunteering for the Science Expo!!! This letter is to give you final details of how things are laid out and the plan for the day. If you still have question, please do not hesitate to contact Julie (574-9594 w or 765-2157 c).

## How to get to the L&N STEM Academy

The address of the school is:

747 Worlds Fair Park Dr., Knoxville, TN 37902

From West Knoxville:



Take **I-40 E** toward **Knoxville**.



Take the **US-441 S / Henley St** exit, **EXIT 388**, toward **Downtown**. **0.1 mi**



Keep **right** to take the **TN-62 / Western Ave** ramp toward **Summit Hill Dr**. **0.2 mi**



Turn **left** onto **Western Ave NW / TN-62**. **0.1 mi**  
*If you are on 11th St SW and reach World's Fair Park Dr SW you've gone a little too far*



Take the **1st left** onto **L&N Station Dr SW**. **0.06 mi**  
*If you are on TN-62 E and reach Henley St SW you've gone a little too far*



Turn **left** onto **World's Fair Park Dr SW**. **0.03 mi**



**747 WORLDS FAIR PARK DR.**  
*If you reach Grand Ave SW you've gone a little too far*

747 Worlds Fair Park Dr, Knoxville, TN 37902-1900

## Arrival time:

A detailed schedule is provided below, but please plan to arrive no later than 7:30 am Saturday morning (10/26/2013).

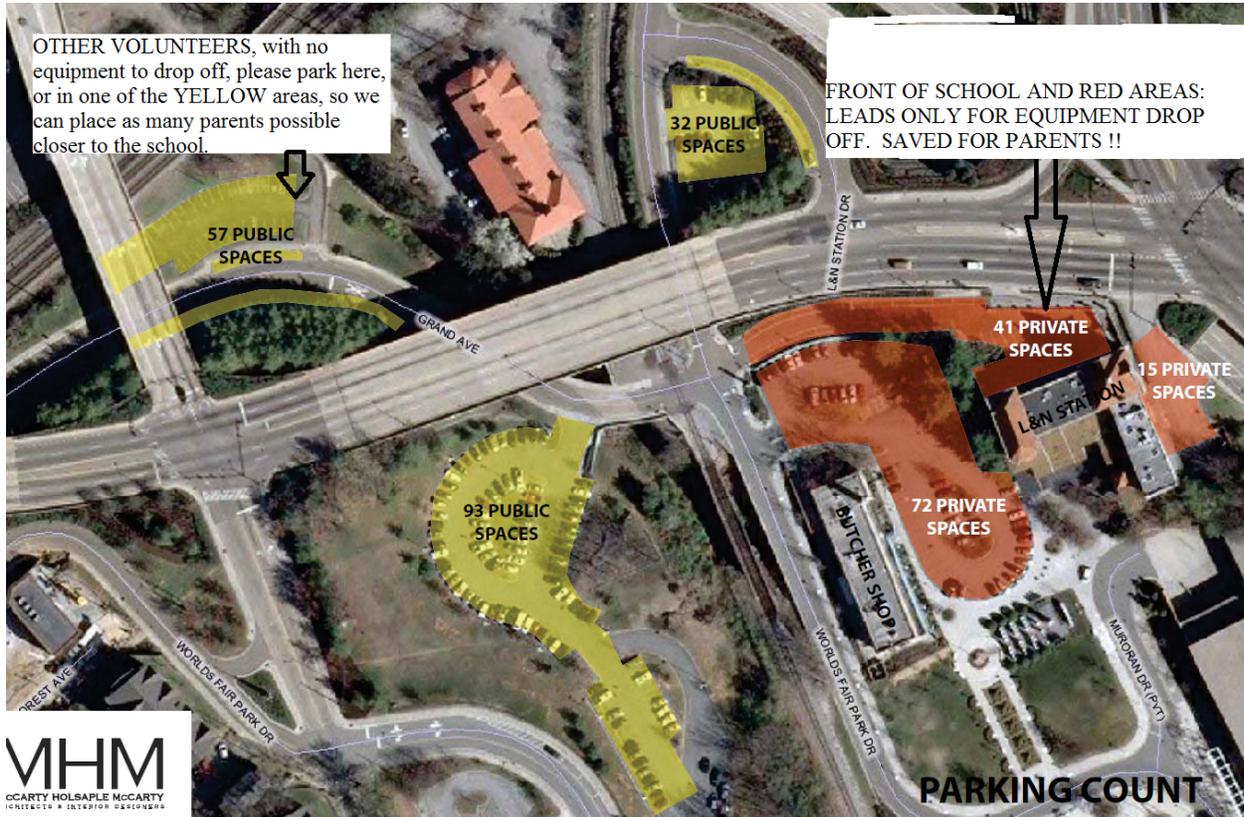


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## **Parking:**

Only session leads that have items in their vehicles may park on cobble stone area in front of the school. We need all others to park either across the street in one of the yellow areas noted on the map. Even if you items to drop off or people, we may try and move your car to a yellow area. We want to get as many places close to the school for the parents. They will have smaller kids with them, and it can REALLY slow things down if they have to walk any distance.





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## General Information

We have a tight schedule for the day. We have over 200 children registered (~100 K-2 and ~100 grades 3-5) and many will be bringing a parent/chaperone. We will have these kids and adults divided into groups, and a set schedule for each group. The groups are set to roughly 10 children each.

We have 5 different experiment sessions and one snack session with robotics demonstrations. To accommodate 100 kids with parents, we had to divide everyone into ten groups. As previously stated, each group will have a set schedule. Nuclear 2, electricity, and electromagnetism will have 2 sessions running simultaneously. Nuclear 1 and Raspberry Pi will combine 2 groups for each session. Parents and chaperones will attend a parent session while their kids are in Nuclear 1. We will have schedules printed for each group, so they know where to go if they get lost during the day. We will post this in the commons area.

Groups:

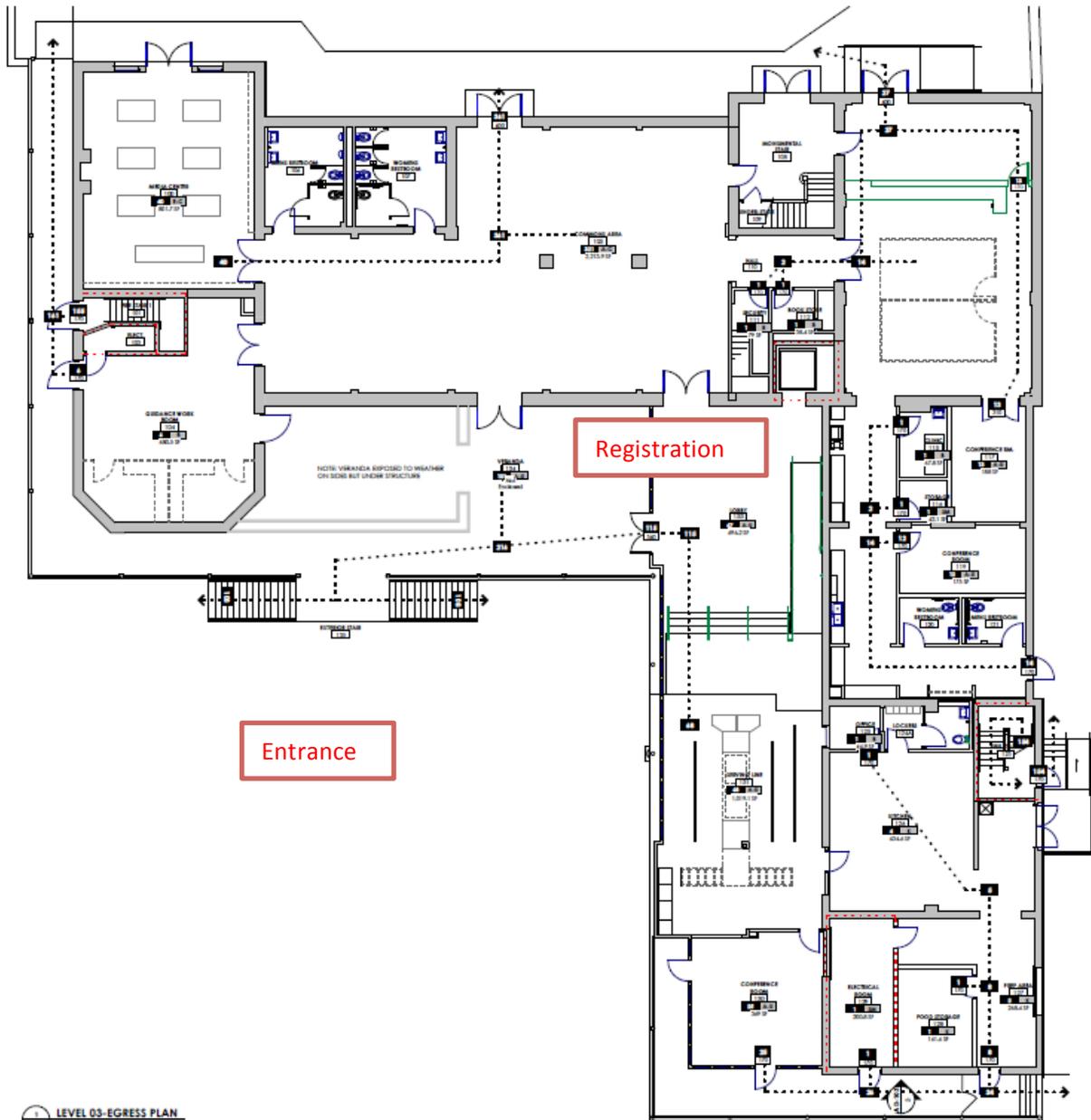
<i>Group Name</i>	<i>Session</i>	<i>ROOM</i>
<b>1</b>	<i>Nuclear 1</i>	<i>222</i>
<b>2</b>	<i>Nuclear 1</i>	<i>222</i>
<b>3</b>	<i>Nuclear 2</i>	<i>202</i>
<b>4</b>	<i>Nuclear 2</i>	<i>203</i>
<b>5</b>	<i>Electricity</i>	<i>214</i>
<b>6</b>	<i>Electricity</i>	<i>216</i>
<b>7</b>	<i>Electromagnetism</i>	<i>205</i>
<b>8</b>	<i>Electromagnetism</i>	<i>207</i>
<b>9</b>	<i>Raspberry Pi</i>	<i>Depot Rm 120</i>
<b>10</b>	<i>Raspberry Pi</i>	<i>Depot Rm 120</i>

The layout of the school and where these classrooms are is shown in the next couple of diagrams:



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## 1<sup>ST</sup> Floor of Academy



Entrance

Registration

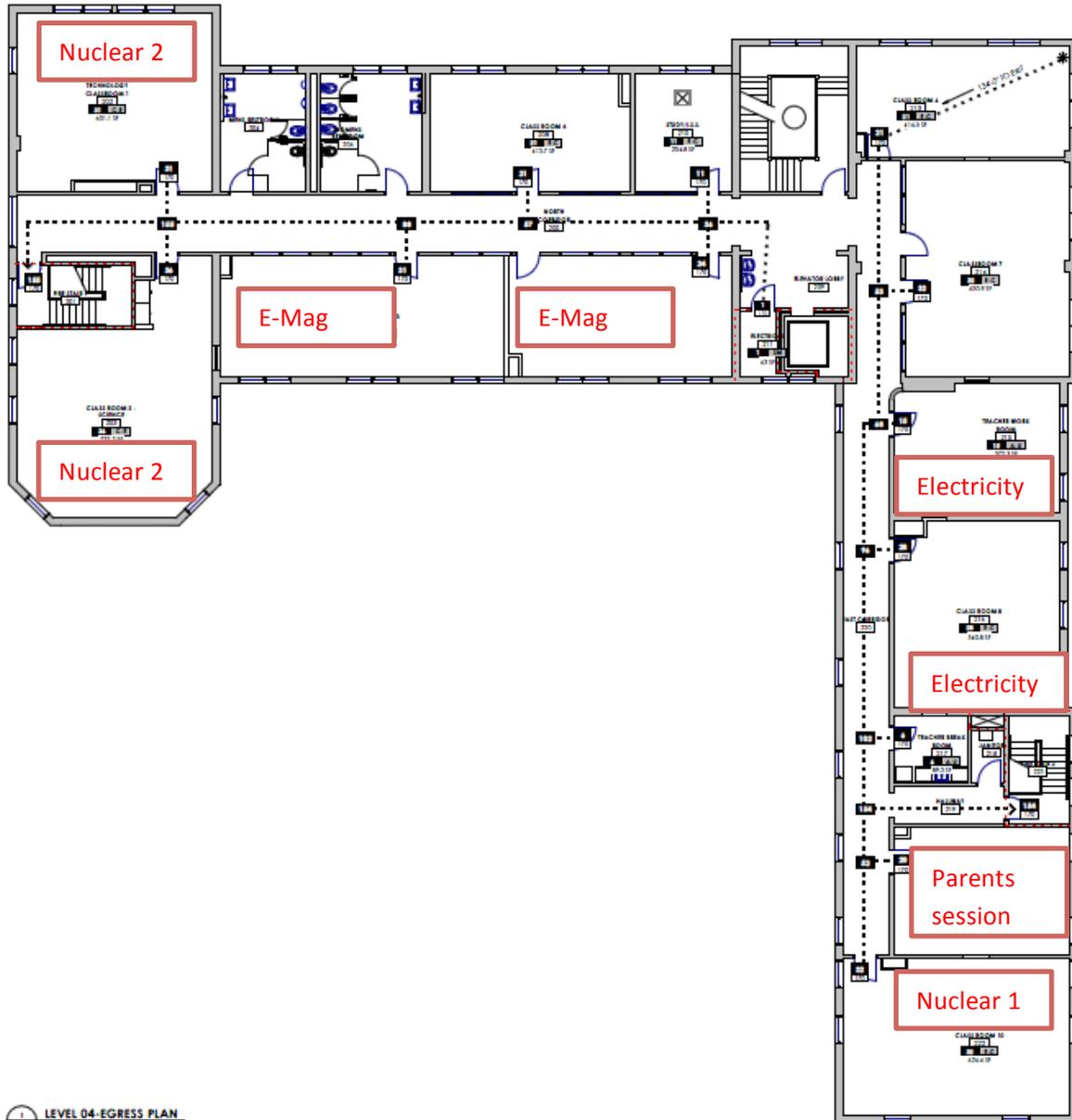
Sunsphere

LEVEL 03-EGRESS PLAN  
SCALE: 1/8" = 1'-0"



# SCIENCE EXPO OCT 2013 AGENDA AND INSTRUCTIONS

## 2<sup>nd</sup> Floor of Academy

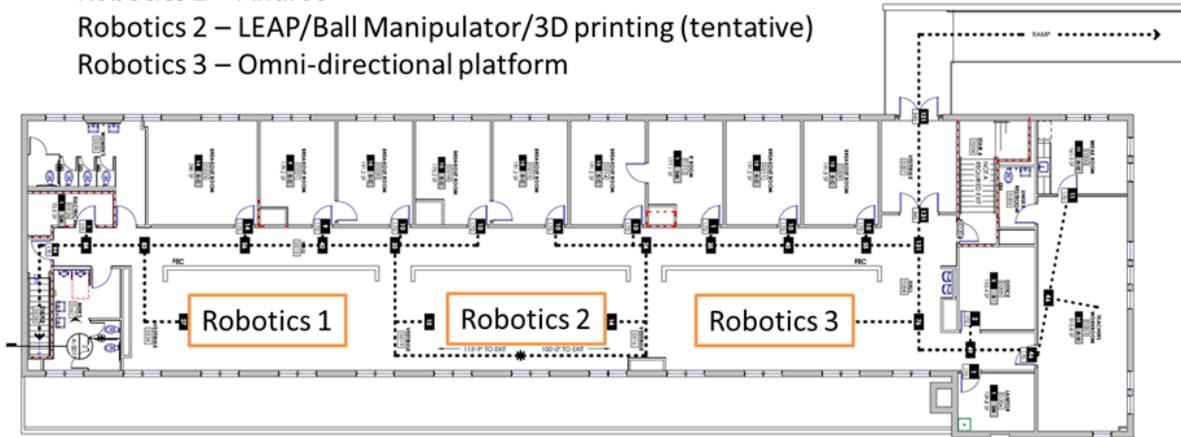




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- Robotics 1 – Andros
- Robotics 2 – LEAP/Ball Manipulator/3D printing (tentative)
- Robotics 3 – Omni-directional platform



Depot Second Floor

***Schedule: We have a lot to do, and not much time to do it in.***

## **Schedule - K-2 Morning Session:**

- **7:30:** Volunteers arrive. Please go to the patio and find your technical leads, if appropriate. For logistics volunteers please wait for directions.
- **7:45-8:45:**
  - help take materials to the classrooms and set-up under the direction of the leads
  - take position in the parking areas to direct traffic, lead students and chaperones to the check in area
- **8-8:45:** Check in. Kids and chaperones will fill out their photo release forms if they have not already done so, get bags and names tags. Divide into the groups.
- **8:45-8:55:** Last minute instructions to the group as a whole about schedule for the day. Safety briefing as to fire evacuation, bathrooms and first aid station.
- 5 minute Break
- **9:00-9:20** Session 1
- 5 minute Break
- **9:25-9:45** Session 2
- 5 minute Break
- **9:50-10:10** Session 3
- 5 minute Break
- **10:15-10:35** Session 4
- 5 minute Break
- **10:40-11:00** Session 5
- 5 minute Break



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- **11:05-11:25**                      Session 6
- **11:30-1:00**                      Lunch and Prep for afternoon session

### **Schedule - 3-5 Afternoon Session:**

- **11:45-12:45:**
  - take position in the parking areas to direct traffic, lead students and chaperones to the check in area
- **12:00-12:45:** Check in. Kids and chaperones will fill out their photo release forms if they have not already done so, get bags and names tags. Divide into the groups.
- **12:45-12:55:** Last minute instructions to the group as a whole about schedule for the day. Safety briefing as to fire evacuation, bathrooms and first aid station.
- 5 minute Break
- **1:00-1:30**                      Session 1
- 5 minute Break
- **1:35-2:05**                      Session 2
- 5 minute Break
- **2:10-2:40**                      Session 3
- 5 minute Break
- **2:45-3:15**                      Session 4
- 5 minute Break
- **3:20-3:50**                      Session 5
- 5 minute Break
- **3:55-4:25**                      Session 6
- **4:30 – on**                      pack and clean up



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## **Session Assignments:**

Below are the session assignments. Remember, please report to the Patio area first so we can all help haul things to the rooms ☺.

### **Directing**

**Lead:** Julie Ezold and David Pointer

Volunteers will be in the parking areas assisting the chaperones/parents and children with showing them where to park as well as to the check in area. In addition, some volunteers will be helping with set-up and take down of sessions.

Thuecks, David	Y-12	<a href="mailto:lwereley@hotmail.com">lwereley@hotmail.com</a>
Mahoor, Zahra	University of Tennessee, Knoxville	<a href="mailto:zmahoor@gmail.com">zmahoor@gmail.com</a>
Tucker, Dwayne		<a href="mailto:Fourdwayne@yahoo.com">Fourdwayne@yahoo.com</a>
Yu, Lonnie	University of Tennessee, Knoxville; ORNL	<a href="mailto:lyu6@utk.edu">lyu6@utk.edu</a>
Gao, Shuang		<a href="mailto:sgao3@utk.edu">sgao3@utk.edu</a>
Toedte, Ross	ORNL	<a href="mailto:rjt@ornl.gov">rjt@ornl.gov</a>

### **Check-in – Vending area**

**Lead:** Bernie Kirk and Peggy Emmett

Check in will be organized alphabetically with five lines. There will be at least two volunteers per line. One will check-off the student and collect the photo release form. The second will give the cinch sack and name tag to the students and direct them to the correct group guide.

Kittrell, Ellie S	The MUSE of Knoxville	<a href="mailto:kittrell.ellie@gmail.com">kittrell.ellie@gmail.com</a>
Klappholz, Ashley	The Muse Of Knoxville	<a href="mailto:Ashleyklapp@gmail.com">Ashleyklapp@gmail.com</a>
Mealor, Toni	The MUSE of Knoxville	<a href="mailto:tonimealor@yahoo.com">tonimealor@yahoo.com</a>
Patterson-Robards, Sherae	The MUSE of Knoxville	<a href="mailto:sheraepatterson@gmail.com">sheraepatterson@gmail.com</a>
McMillan, April D (AM only)	Oak Ridge National Laboratory	<a href="mailto:mcmillanad@ornl.gov">mcmillanad@ornl.gov</a>
Gallego, Nidia (PM only)	Oak Ridge National Laboratory	<a href="mailto:gallegonc@ornl.gov">gallegonc@ornl.gov</a>

### **Group Guides – Patio**

**Lead:** Julie Ezold



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Group guides will be responsible for “collecting” their students and chaperones and getting them to their sessions on-time. A detail schedule will be given to each guide as well as each chaperone.

Gaffney, Vanna	Department of Energy-EM	<a href="mailto:gaffneyeyvn@oro.doe.gov">gaffneyeyvn@oro.doe.gov</a>
Jones, Samantha		<a href="mailto:sjone105@utk.edu">sjone105@utk.edu</a>
Pillai, Rekha S	ORNL	<a href="mailto:pillairs@ornl.gov">pillairs@ornl.gov</a>
McDonald, Jim	Y-12	<a href="mailto:demetri74@bellsouth.net">demetri74@bellsouth.net</a>
Shor, Joel T	B&W Y-12	<a href="mailto:stj@y12.doe.gov">stj@y12.doe.gov</a>
Hickman, Kathy A	Y-12 Security Complex	<a href="mailto:khn@y12.doe.gov">khn@y12.doe.gov</a>
Floyd, Jeri	Y12	<a href="mailto:floydjb@y12.doe.gov">floydjb@y12.doe.gov</a>
Jobe, Seth H	University of Tennessee NE	<a href="mailto:sjobe1@utk.edu">sjobe1@utk.edu</a>
Earles, Jennifer	ORNL/XCEL Engineering	<a href="mailto:ej5@ornl.gov">ej5@ornl.gov</a>
Borreguero Calvo, Jose	ORNL	<a href="mailto:borreguero@gmail.com">borreguero@gmail.com</a>

## **Chaperones/Parents Informational Session – Room 221**

**Lead:** Ellie Kittrell and Ashley Klappholz

## **Nuclear 1 Session – Room 222**

**Lead:** Angie Lousteau Jeff Chapman

Stooksbury, John	UT ANS	<a href="mailto:jstooks9@utk.edu">jstooks9@utk.edu</a>
Bartholomay, Marsha	UT WIN	<a href="mailto:mbartho3@utk.edu">mbartho3@utk.edu</a>
Vance, Robert S	University of Tennessee	<a href="mailto:rvance3@utk.edu">rvance3@utk.edu</a>
Claus, Louis	University of Tennessee Nuclear Engineering Department	<a href="mailto:lclaus@utk.edu">lclaus@utk.edu</a>
Meinweiser, Gregory J	University of Tennessee	<a href="mailto:gmeinwei@yahoo.com">gmeinwei@yahoo.com</a>
Hale, Hannah	UTK ANS	<a href="mailto:hhale4@utk.edu">hhale4@utk.edu</a>
Chapman, Jeff A	ORNL	<a href="mailto:chapmanja@ornl.gov">chapmanja@ornl.gov</a>

**Giveaways:** Floamies in the test tubes, Sticker, Dum Dums, and UV cards (Atoms Family workbook will already be in their bags)



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## Electricity 1 – Rooms 214 and 216

**Leads:** Brian Egle & Mark Noakes (Rm 214)  
Dan Stracener & Jessica Shewmaker (Rm 216)

Selby, Aaron P	American Nuclear Society - UTK Student Chapter	<a href="mailto:aselby1@utk.edu">aselby1@utk.edu</a>
Devoe, Remy R	University of Tennessee	<a href="mailto:rdevoe1@utk.edu">rdevoe1@utk.edu</a>
Noakes, Mark W	Oak Ridge National Laboratory	<a href="mailto:noakesmw@ornl.gov">noakesmw@ornl.gov</a>
Braaten, Philipp	UT Student ANS	Philipp.braaten@gmail.com
White, Kyle	UT College of Engineering	<a href="mailto:kswwhite42@gmail.com">kswwhite42@gmail.com</a>
Fervan, Sarah K	University of Tennessee	<a href="mailto:sfervan@utk.edu">sfervan@utk.edu</a>
gotthold, david j	UTK	<a href="mailto:dgotthol@utk.edu">dgotthol@utk.edu</a>
Engel, John	UTK	<a href="mailto:jengle@utk.edu">jengle@utk.edu</a>
Wilson, John	UTK	<a href="mailto:jwils106@utk.edu">jwils106@utk.edu</a>
Stracener, Wyatt A	High school student	<a href="mailto:mpca50@aol.com">mpca50@aol.com</a>

**Giveaways:** Flashlight

## Nuclear 2

**Leads:** Dwaine Puckett (Room 202)  
Lawrence Heilbronn (Room 203)

Hall, Drew A	U. Tennessee Nuclear Engineering	<a href="mailto:drew.hall@live.com">drew.hall@live.com</a>
Britt, Carl G	American Nuclear Society	<a href="mailto:cbritt2@utk.edu">cbritt2@utk.edu</a>
Luciano, Nicholas P	University of Tennessee	<a href="mailto:nluciano@utk.edu">nluciano@utk.edu</a>
Niedziela, Jennifer L	Spallation Neutron Source	<a href="mailto:3qn@ornl.gov">3qn@ornl.gov</a>
Fiddler, Brent	American Nuclear Society	<a href="mailto:bfiddler@utk.edu">bfiddler@utk.edu</a>
Auxier, Jerrad P	University of Tennessee (Knoxville), Department of Nuclear Engineering	<a href="mailto:jauxier1@utk.edu">jauxier1@utk.edu</a>
Chalmers, JR	University of Tennessee NE	<a href="mailto:johnchalmers92@gmail.com">johnchalmers92@gmail.com</a>
Green, Hailey M	American Nuclear Society - UTK Student Chapter	<a href="mailto:hgreen8@utk.edu">hgreen8@utk.edu</a>
Capps, Nathan	University of Tennessee	<a href="mailto:ncapps@utk.edu">ncapps@utk.edu</a>
Langford, Seth T	ANS	<a href="mailto:slangfo1@utk.edu">slangfo1@utk.edu</a>

**Giveaways:** Cups, Book Marks, and Dose Charts



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## **E-Mag**

**Leads:** Seth Johnson (Room 205)  
Jessica White-Horton (Room 207)

Warburton, Jamie L	ORAU/ORNL	jamie.warburton@gmail.com
Tenpenny, Daniel W	American Nuclear Society	<a href="mailto:dtenpen1@utk.edu">dtenpen1@utk.edu</a>
Wszolek, Alyxandria L	University of Tennessee	<a href="mailto:awszolek@utk.edu">awszolek@utk.edu</a>
Ross, Julia T	University of Tennessee	<a href="mailto:jross26@utk.edu">jross26@utk.edu</a>
Shoman, Nathan	University of Tennessee - American Nuclear Society	<a href="mailto:nshoman@utk.edu">nshoman@utk.edu</a>
Crabtree, Lily I	UT Knoxville	<a href="mailto:LCrabtr3@gmail.com">LCrabtr3@gmail.com</a>
Caswell, Adam G	UT American Nuclear Society	<a href="mailto:acaswell@utk.edu">acaswell@utk.edu</a>
Sweet, Ryan T	UT ANS	<a href="mailto:rsweet1@utk.edu">rsweet1@utk.edu</a>
Frame, Emily A	ANS (Student Chapter UTK)	<a href="mailto:eframe@utk.edu">eframe@utk.edu</a>
Yasin, Fareed M		<a href="mailto:fyasin@utk.edu">fyasin@utk.edu</a>
de Wet, Wouter C	University of Tennessee	<a href="mailto:wdewet@utk.edu">wdewet@utk.edu</a>

**Giveaway:** Magnet and circuit

## **Robots – Commons Area**

**Leads:** Adam Aaron and Mat Merten

Giuliano, Dominic R	Oak Ridge National Laboratory	<a href="mailto:gtr@ornl.gov">gtr@ornl.gov</a>
Phelps, Clarice E	Oak Ridge National Lab	<a href="mailto:phelpsce@ornl.gov">phelpsce@ornl.gov</a>
Murphy, Karen E	Oak Ridge National Lab	<a href="mailto:murphyke@ornl.gov">murphyke@ornl.gov</a>
Lessard, Timothy	ORNL - Remote Systems Group	<a href="mailto:lessardtl@ornl.gov">lessardtl@ornl.gov</a>
Merten, Mat	LEGO Robot Table	mamerten@hotmail.com
Spampinato, Philip T	ORNL	<a href="mailto:rhd@tds.net">rhd@tds.net</a>
Collins, Price A	UTK Grad Student	<a href="mailto:pcollin7@utk.edu">pcollin7@utk.edu</a>
Griffard, Cory	University of Tennessee Nuclear Engineering Department	<a href="mailto:cgriffard@vandals.uidaho.edu">cgriffard@vandals.uidaho.edu</a>
Aaron, Adam M	Oak Ridge National Lab	<a href="mailto:adamaaron185@gmail.com">adamaaron185@gmail.com</a>
Carroll, Adam J	Oak Ridge National Lab	<a href="mailto:carrollaj@ornl.gov">carrollaj@ornl.gov</a>



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**Giveaway:** Boogie'Bot

## **FOOD: - Lead Gail Okulczyk**

- Breakfast: We'll have some donutss and drinks for in the morning, but more of a snack than breakfast.
- There will be snacks during the day-but think goldfish crackers.
- Lunch will be provided - pizza
- Waters will be provided
- **PLEASE LET ME KNOW IF YOU ARE A VEGETARIAN OR HAVE ANY FOOD ALLERGIES!**

During snack breaks, volunteers will help the students will their selections.

Tucker, Diana L	ORNL	<a href="mailto:tuckerdl@ornl.gov">tuckerdl@ornl.gov</a> ; <a href="mailto:fourdiana@yahoo.com">fourdiana@yahoo.com</a>
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## **ATTIRE:**

Please wear the T-shirt we will provide you so that the parents and children can identify who is a volunteer.

## **OTHER:**

Contact Information:

Julie Ezold:

765-2157 cell phone. [ezoldjg1@ornl.gov](mailto:ezoldjg1@ornl.gov)