



2015

CONNECTICUT

USERS' GROUP MEETING

## General Information

NUCLEAR MEASUREMENT SOLUTIONS FOR SAFETY, SECURITY & THE ENVIRONMENT

- **Welcome**
- **Meeting Schedule**
- **Group Dinner Info**
- **Meeting Space Layout**
- **Attendee List**



NUCLEAR MEASUREMENT SOLUTIONS FOR SAFETY, SECURITY & THE ENVIRONMENT

[WWW.CANBERRA.COM](http://WWW.CANBERRA.COM)

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CANBERRA



# WELCOME

## » Dear Users' Group Attendee:

**Thank you for joining us for what we believe will be an informative, interactive and enjoyable event. I would like to point out some highlights of our schedule to make sure you take full advantage of all we have to offer this year.**

Our office will be located in Spotlight meeting room. Registration will be held at the Celebrity Ballroom registration desk. Registration hours are:

- Monday – 7:30 am to 9:30 am
- Tuesday – 7:30 am to 9:30 am and 4:30 pm to 6:00 pm

We would like to thank this year's co-host, NextEra Energy. David Robinson from NextEra will welcome us to Connecticut on Wednesday morning during the general session.

We have two exciting social functions that you are invited to with your guests. Be sure to join us for our Welcome Reception on Tuesday evening from 7:30 pm to 9:30 pm on the Fox Tower's Grand Terrace. Our Thursday night dinner will be at the Mashantucket Pequot Museum. The museum is just five minutes from the hotel. We will start boarding the buses at the Fox Tower at 6:45 pm. Once we arrive at the museum we will have hors d'oeuvres on the lower level while everyone tours the museum. We will also have a group photo taken and then move to the main floor for dinner.

Guests of each registered Users' Group Meeting participant may attend the two social functions free of charge. All other scheduled meals and sessions are considered business events and are limited to participants only. All guests who are attending the social functions must be registered in advance and must have a ticket for each event to gain admittance. Walk-ins cannot be accommodated. If your guest information has changed since you registered online, please contact me by e-mail at [tammy.pattison@canberra.com](mailto:tammy.pattison@canberra.com) or come see me in the office.

Our demo room will be open several times during the week to give you an opportunity to learn about our innovative solutions and services and to interact with our product managers. Take our Demo Room Challenge and you will be entered for a chance to win a Garmin Nuvi.

This year all of our breakout sessions have been awarded Continuing Education Credits from the American Academy of Health Physics (AAHP). There will be sign in sheets in each breakout session. Once you complete the session you will receive an electronic certificate for your records via email.

Electronic meeting evaluations will be e-mailed on Friday when our event concludes. Please be sure to fill this out online as quickly as possible because the information you provide is very important to us in our planning for future meetings. When we receive your completed survey you will be entered into a raffle for a Garmin VivoFit!

I hope you enjoy this year's meeting and all that Connecticut has to offer!

Sincerely,



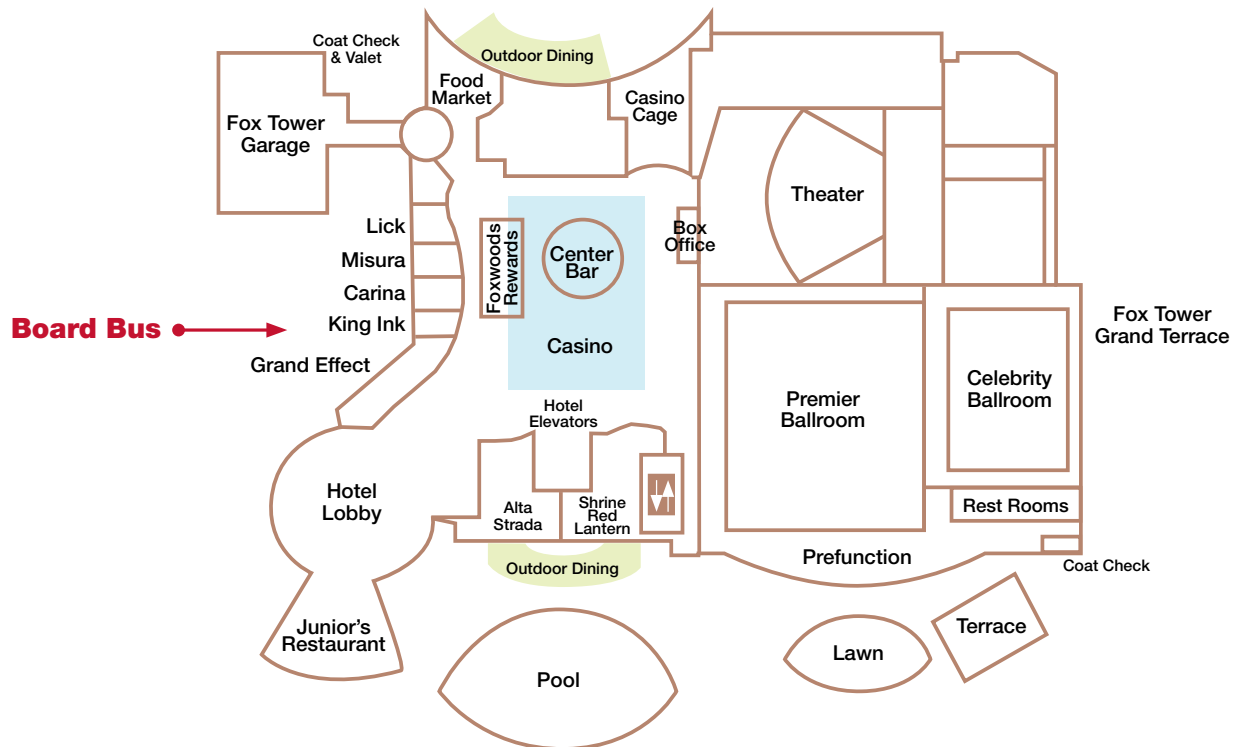
**Tammy Pattison, CTSM Silver Level**  
 Manager, Operational Marketing



# » Meeting Schedule

## > Monday, June 22, 2015

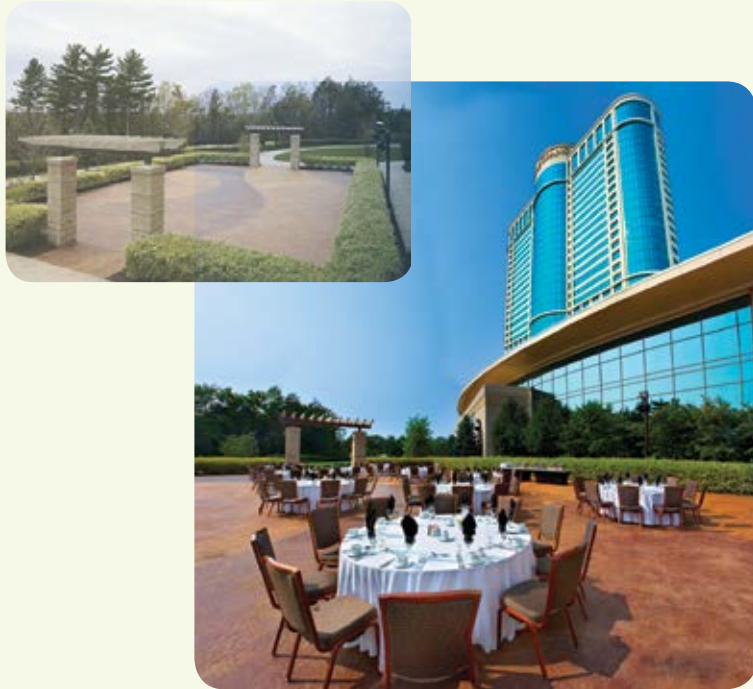
Time	Session	Instructor	Location
7:30 – 9:30 am	<b>Registration</b>		Celebrity Ballroom Registration
8:00 – 9:00 am	<b>Continental Breakfast</b>		Celebrity Ballroom Pre-Function
9:00 – 4:30 pm	<b>Training Seminars</b>		
	iCAM™ Operations – One Day	<i>Luke Hovestadt</i>	Celebrity Ballroom C
	HIS-20 Track – Two Day	<i>Joanne Roberson</i>	Celebrity Ballroom EFG
	Fundamentals of Gamma Spectroscopy – Two Day	<i>Doug Van Cleef</i>	Celebrity Ballroom D
	iSolo® and iMatic™ Measurement Optimization – Two Day	<i>Lee Reagan</i>	Celebrity Ballroom H
	Genie™ 2000 Gamma Analysis Optimization – Two Day	<i>Cathey Sharp</i>	Bravo
	Apex-Gamma™/Genie 2000 – Advanced Topics – Two Day	<i>Frank Liptak</i>	Celebrity Ballroom JK
Apex® Gamma Operations – Two Day	<i>Mike Diaz</i>	Celebrity Ballroom I	
10:15 – 10:30 am	<b>Break</b>		Celebrity Ballroom Pre-Function
12:00 – 1:00 pm	<b>Lunch</b>		Celebrity Ballroom A
2:30 – 2:45 pm	<b>Break</b>		Celebrity Ballroom Pre-Function



**FOX TOWER – PROPERTY OVERVIEW**

> **Tuesday, June 23, 2015**

Time	Session	Instructor	Location
7:30 – 9:30 am	<b>Registration</b>		Celebrity Ballroom Registration
8:00 – 9:00 am	<b>Continental Breakfast</b>		Celebrity Ballroom Pre-Function
9:00 – 4:30 pm	<b>Training Seminars</b>		
	Practical QA/QC Considerations in Gamma Spectroscopy – One Day	<i>Tim Royals</i>	Celebrity Ballroom C
	Contamination Monitor Operations – One Day	<i>Shawn Googins</i>	Premier Ballroom GH
	HIS-20 Track – Two Day	<i>Joanne Roberson</i>	Celebrity Ballroom EFG
	Fundamentals of Gamma Spectroscopy – Two Day	<i>Doug Van Cleef</i>	Celebrity Ballroom D
	iSolo and iMatic Measurement Optimization – Two Day	<i>Lee Reagan</i>	Celebrity Ballroom H
	Genie 2000 Gamma Analysis Optimization – Two Day	<i>Cathey Sharp</i>	Bravo
	Apex-Gamma/Genie 2000 – Advanced Topics – Two Day	<i>Frank Liptak</i>	Celebrity Ballroom JK
Apex Gamma Operations – Two Day	<i>Mike Diaz</i>	Celebrity Ballroom I	
10:15 – 10:30 am	<b>Break</b>		Celebrity Ballroom Pre-Function
12:00 – 1:00 pm	<b>Lunch</b>		Celebrity Ballroom A
2:30 – 2:45 pm	<b>Break</b>		Celebrity Ballroom Pre-Function
4:30 – 6:00 pm	<b>Registration</b>		Celebrity Ballroom Registration
7:30 – 9:30 pm	<b>Welcome Reception</b>		Fox Tower – Grand Terrace



**> Wednesday, June 24, 2015**

Time	Session	Instructor	Location
7:00 – 8:00 am	<b>Breakfast</b>		Fox Tower – Grand Terrace
<b>General Session</b>			
8:00 – 8:15 am	Welcome	<i>Bud Sielaff – CANBERRA</i>	Celebrity Ballroom B
8:15 – 8:30 am	Welcome to Connecticut from our Co-Host	<i>David Robinson – NextEra Energy</i>	
8:30 – 9:00 am	Opening Remarks	<i>Bud Sielaff – CANBERRA</i>	
9:00 – 10:00 am	Keynote Speaker - The Girls of Atomic City: Life on the Manhattan Project	<i>Denise Kiernan – Author of “Girls of Atomic City”</i>	
10:00 – 10:30 am	<b>Break</b>		Celebrity Ballroom Pre-Function
10:30 – 11:00 am	Gamma Energy Analysis NDA of Hanford Legacy Waste Objects	<i>Edward Wallace – Washington Closure Hanford</i>	Celebrity Ballroom B
11:00 – 11:30 am	Characterization and Screening of Radioactive Waste Using CANBERRA's ISOCS™ System	<i>Nasser Rashidifard – Radiation Safety &amp; Control Services, Inc. (RSCS)</i>	
11:30 – 12:00 pm	Integrated Approach to Nuclear Security and Safeguards	<i>Prof. Sukesh Aghara – UMass Lowell</i>	
12:00 – 12:30 pm	ISOCS Applications for Characterizing Waste at Waste Control Specialists (WCS)	<i>Travis Matthews – Waste Control Specialists (WCS)</i>	
12:30 – 1:30 pm	<b>Lunch</b>		
<b>Breakout Sessions</b>			
1:30 – 3:00 pm	RMS Detector Calibration Demonstration	<i>Hitesh Patel</i>	Celebrity Ballroom D
	Primer Spectroscopy Fundamentals	<i>Doug Van Cleef</i>	Celebrity Ballroom EFG
	iPIX Imaging Systems	<i>Pete D'Agostino</i>	Star Room
	New Techniques & Services Developed to Improve Assay Accuracy	<i>Patrick Chard / Dominique Rothan</i>	Bravo
3:00 – 3:30 pm	<b>Break</b>		Celebrity Ballroom Pre-Function
3:30 – 5:00 pm	Horizon Supervisory Software	<i>Steve Laskos</i>	Bravo
	Innovative Applications in Education and Research	<i>Kara Morris</i>	Celebrity Ballroom D
	Laboratory Electronics	<i>Kevin Carmichael</i>	Celebrity Ballroom EFG
5:30 – 7:30 pm	<b>Demo Room</b>		Premier Ballroom GH



**> Thursday, June 25, 2015**

<b>Time</b>	<b>Session</b>	<b>Instructor</b>	<b>Location</b>
7:00 – 8:00 am	<b>Breakfast</b>		Fox Tower – Grand Terrace
<b>General Session</b>			
8:00 – 8:05 am	Meeting Updates	<i>Bud Sielaff – CANBERRA</i>	Celebrity Ballroom B
8:05 – 9:00 am	Featured Speaker – The Value and Future of Nuclear Energy	<i>Ted Jones – Nuclear Energy Institute</i>	
9:00 – 9:30 am	Instrumentation Lessons Learned at the WIPP Site	<i>Clifford Fell – Nuclear Waste Partnership – WIPP</i>	
9:30 – 10:00 am	<b>Break</b>		Celebrity Ballroom Pre-Function
10:00 – 10:30 am	IAEA Experiences on HKED Software Use at the On Site Laboratory at Rokkasho-Mura Reprocessing Plant	<i>Georges Etienne Duhamel – IAEA</i>	Celebrity Ballroom B
10:30 – 11:00 am	The Federal Radiological Monitoring Assessment Center's (FRMAC) Laboratory Analysis Communication Tools	<i>Sean Fournier – Sandia National Laboratory (RPSD)</i>	
<b>Breakout Sessions</b>			
11:00 – 12:30 pm	Innovative Perimeter and Mobile Environmental Monitoring Solutions	<i>Hitesh Patel/ James Forde-Johnston</i>	Celebrity Ballroom D
	Sample Counting with Apex-Gamma, Genie 2000, & LabSOCS™	<i>Kara Morris/ Steve Laskos</i>	Celebrity Ballroom EFG
	Partnering with CANBERRA – a Service Workshop	<i>Doug Van Cleef/ Tim Place</i>	Bravo
12:30 – 1:30 pm	<b>Lunch</b>		Fox Tower – Grand Terrace
<b>Breakout Sessions</b>			
1:30 – 3:00 pm	RMS Success Stories	<i>Hitesh Patel/ Tim Martinson</i>	Celebrity Ballroom D
	New Developments in High-Purity Germanium Detectors	<i>Kevin Carmichael</i>	Celebrity Ballroom EFG
	Contamination Monitor and In Vivo Counting Systems	<i>Abuzar Fariad/ Steve Laskos</i>	Premier Ballroom GH
3:00 – 3:30 pm	<b>Break</b>		Celebrity Ballroom Pre-Function
3:30 – 5:00 pm	RMS & EMS Updates and Unique Solutions	<i>Hitesh Patel/ Tim Martinson</i>	Celebrity Ballroom D
	Latest Developments in Alpha/Beta Counting & Alpha Spectroscopy	<i>Lee Reagan</i>	Celebrity Ballroom EFG
	Hand-Held Health Physics Products and CSP™ Family	<i>Pete D'Agostino</i>	Bravo
5:00 – 6:30 pm	<b>Demo Room</b>		Premier Ballroom GH
6:30 – 6:45 pm	<b>Board Shuttle Bus for Group Dinner</b>		Fox Tower Lobby (see map on page 3)
7:00 – 10:30 pm	<b>Group Dinner</b> (See next page for more details)		Pequot Museum

# » Group Dinner at Mashantucket Pequot Museum

## Evening Schedule

<b>6:45 pm</b>	Meet just outside Fox Tower hotel lobby to board shuttle bus. See map on page 3
<b>7:00 – 7:15 pm</b>	Arrive at Mashantucket Pequot Museum
<b>7:15 – 8:15 pm</b>	Cocktail hour in Atrium/Overlook and exhibit tours
<b>8:15 pm</b>	Group photo – Atrium/Overlook
<b>8:30 pm</b>	Move upstairs to the “Gathering Space” for dinner
<b>8:30 – 9:15 pm</b>	Dinner served
<b>9:15 – 9:30 pm</b>	Concluding remarks and raffle
<b>9:30 – 10:30 pm</b>	Dessert and dancing
<b>10:30 pm</b>	Board shuttle bus back to the Fox Tower

> **All registered Users’ Group Meeting participants and their guests may attend this dinner free of charge.**

Everyone attending the social functions must be registered in advance and must have a ticket to gain admittance. Walk-ins cannot be accommodated. If the information related to you or your guest has changed since you registered online, please e-mail [tammy.pattison@canberra.com](mailto:tammy.pattison@canberra.com) or come see Tammy in the CANBERRA office located in the Spotlight meeting room.

> **Dress code is business casual.**



Tribally owned-and-operated since it opened on August 11, 1998, the Museum brings to life the story of the **Mashantucket Pequot Tribal Nation**. It serves as a major resource on the histories and cultures of Native Americans in the northeast and on the region’s rich natural history. Multi-sensory dioramas and exhibits introduce visitors to the history of the Mashantucket Pequot Tribe and the natural and cultural history of the eastern woodlands.

Films and videos, interactive programs, archival materials, ethnographic and archaeological collections, commissioned art, and traditional crafts by Native artisans are featured in the exhibits. The building is designed to interact with its surrounding environment while maintaining the ecological integrity of the area. It embraces the tree line and is nestled into the landscape; two of the five levels of the facility are below ground. A 185-foot, stone-and-glass tower provides visitors with sweeping views of the swamp and region.



> **Friday, June 26, 2015**

Time	Session	Instructor	Location																		
8:00 – 11:00 am	<b>Continental Breakfast</b>		Premier Ballroom GH																		
8:00 – 11:00 am	<b>Demo Room</b>		Premier Ballroom GH																		
	<ul style="list-style-type: none"> <li>• <b>Live Demo!</b> – (9:00 – 9:30 am) Horizon Supervisory Software</li> </ul>	Steve Laskos																			
	<ul style="list-style-type: none"> <li>• <b>Live Demo!</b> – (9:45 – 10:15 am) Improving Sample Throughput with Cosmic Veto Option</li> </ul>	Kevin Carmichael																			
10:00 – 3:00 pm	<b>Bus Tour to CANBERRA</b> >> <b>Tour Schedule</b> (Subject to change) <table border="0" style="margin-left: 20px;"> <tr> <td>10:15 – 10:30</td> <td>Board bus at Fox Tower</td> </tr> <tr> <td>10:30</td> <td>Bus departs Fox Tower</td> </tr> <tr> <td>11:30</td> <td>Bus arrives CANBERRA</td> </tr> <tr> <td>11:30 – 12:30</td> <td>Lunch and Welcome</td> </tr> <tr> <td>12:30 – 1:30</td> <td>CANBERRA Facility Tour                             <ul style="list-style-type: none"> <li>– Electronics Cell</li> <li>– RMS Cell</li> <li>– Alpha Beta Cell</li> <li>– Systems</li> <li>– Detectors</li> </ul> </td> </tr> <tr> <td>1:30 – 1:45</td> <td>Wrap up</td> </tr> <tr> <td>1:45 – 2:00</td> <td>Board bus at CANBERRA</td> </tr> <tr> <td>2:00</td> <td>Bus departs CANBERRA</td> </tr> <tr> <td>3:00</td> <td>Bus arrives back at Fox Tower</td> </tr> </table> <div style="text-align: right; margin-top: 10px;">  </div> <p style="margin-top: 10px;">&gt; <b>You must register in advance for this tour.</b>  <b>If you have any questions please see Tammy in the office.</b></p>			10:15 – 10:30	Board bus at Fox Tower	10:30	Bus departs Fox Tower	11:30	Bus arrives CANBERRA	11:30 – 12:30	Lunch and Welcome	12:30 – 1:30	CANBERRA Facility Tour <ul style="list-style-type: none"> <li>– Electronics Cell</li> <li>– RMS Cell</li> <li>– Alpha Beta Cell</li> <li>– Systems</li> <li>– Detectors</li> </ul>	1:30 – 1:45	Wrap up	1:45 – 2:00	Board bus at CANBERRA	2:00	Bus departs CANBERRA	3:00	Bus arrives back at Fox Tower
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1:30 – 1:45	Wrap up																				
1:45 – 2:00	Board bus at CANBERRA																				
2:00	Bus departs CANBERRA																				
3:00	Bus arrives back at Fox Tower																				

## >> Live Demonstrations!

Friday’s demo room session will feature special product demonstrations on the following topics.

**9:00 – 9:30 am: Horizon Supervisory Software**

by Steve Laskos

Come see a demonstration of how the Horizon Supervisory software can monitor a variety of instruments for your site including area monitors, rate meters with probes, continuous air monitors, contamination monitors, and the new EcoSpec environmental monitor.



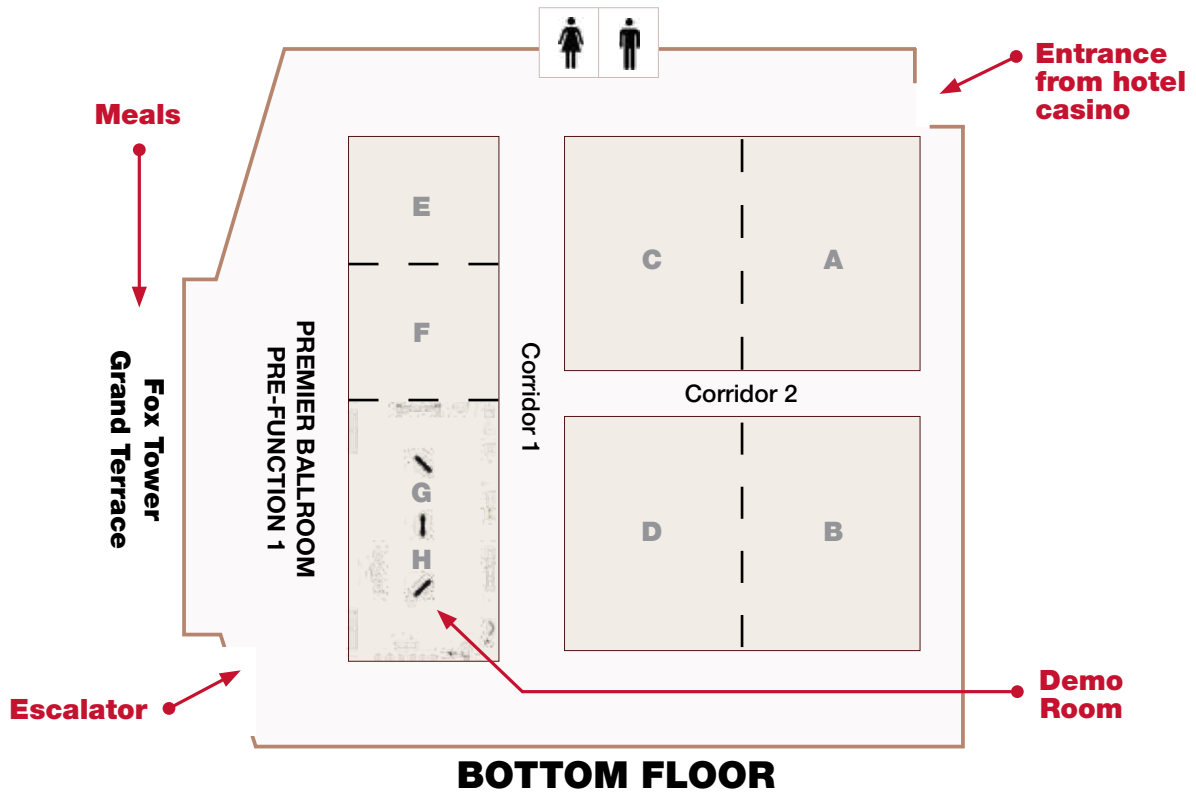
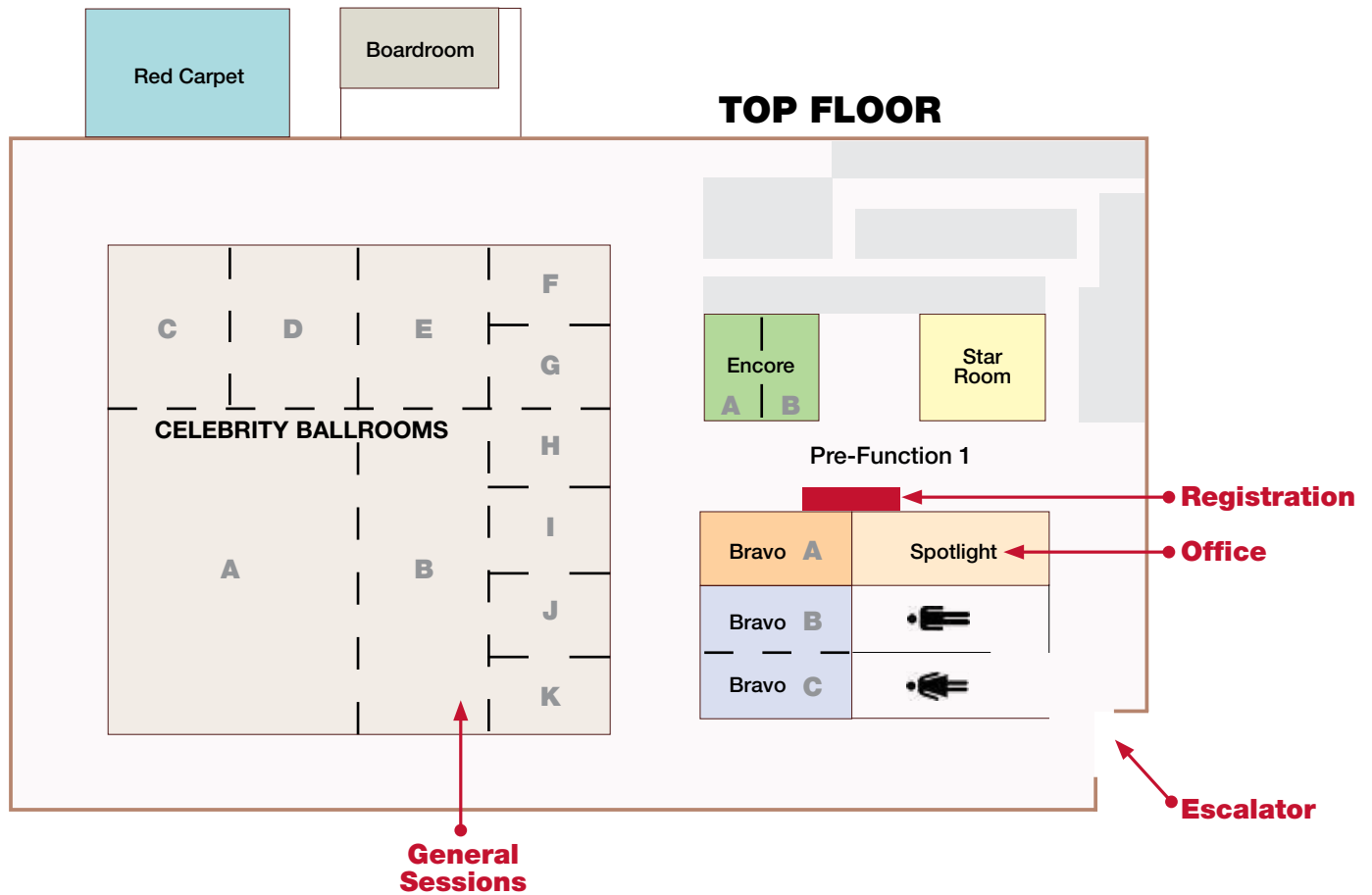
**9:45 – 10:15 am: Improving Sample Throughput with Cosmic Veto Option**

by Kevin Carmichael

In a typical above-ground radiochemistry laboratory, the background continuum in the spectrum is primarily the result of a combination of terrestrial and cosmic radiation. With typical lead shielding in place, the majority of the terrestrial radiation is eliminated. However, the cosmic radiation component stems from high energy muons that can easily penetrate a typical laboratory shield, and remains present in the background spectrum. With the release of the Lynx version 1.3 firmware, CANBERRA can now support a secondary muon detector to detect and eliminate a portion of these events from the background signal, thus improving counting times and increasing the throughput of samples counted. This feature is available as an add-on option for nearly any gamma spectroscopy system. The installation, setup and usage of the complete cosmic veto system using the Lynx MCA will be covered in the demonstration.



# » Fox Tower – Meeting Space Layout





## ... the response was fantastic!

“As a first time attendee to the conference, I would definitely return. The training and presentations were challenging and technically sound. I enjoyed meeting all the CANBERRA reps that I have spoke to on the phone or email and also enjoyed meeting other CANBERRA users. I look forward to next year.

“All CANBERRA reps were knowledgeable and genuinely interested in customer feedback and how they could improve the products and service.

“Great Displays and very inviting to touch and feel the systems.

“I was excited to hear about the online training opportunities that are coming down the pipeline. New users of software or hardware would benefit greatly from this improvement to CANBERRA's training offerings.

“Had a great time! My main reason for attending was to attend training and network with other users of CANBERRA products. It was a success for me.

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**Save the date**

**June 20 – 24, 2016**

**ARIZONA**

**USERS' GROUP  
MEETING**

**★ 2016 ★**

**SCOTTSDALE**





THANK YOU FOR ATTENDING!



**CANBERRA**

**Nuclear Measurement Solutions**  
for Safety, Security and the  
Environment



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