

# Welcome

## 1st International Workshop on a 2nd Detector for the Electron-Ion Collider

Bernd Surrow




**1<sup>ST</sup> INTERNATIONAL WORKSHOP  
ON A 2<sup>ND</sup> DETECTOR FOR THE  
ELECTRON-ION COLLIDER**

Temple University  
Philadelphia, PA  
May 17-19, 2023




**Scientific Topics**

- > Science Opportunities with a 2<sup>nd</sup> Detector
- > Detector Technologies
- > R&D Needs & Perspectives
- > Opportunities for AI/ML
- > International Perspectives and Community Broadening

**Organizing Committee:**  
 Klaus Dehmelt (CFNS/SBU)  
 Abhay Deshpande (BNL/CFNS/SBU)  
 Renee Filson (UKY)  
 Charles Hyde (ODU)  
 Sangbaek Lee (ANL)  
 Simonetta Liuti (EIVA)  
 Pawel Nadel-Turonski (CFNS/SBU)  
 Marco Radici (INFN/Pavia)  
 Bjoern Scheike (BNL)  
 Ernst Sichtermann (LBNL)  
 Bernd Surrow (Temple)  
 Thomas Ullrich (BNL/Polz)  
 Anselm Vossen (Duke/ILab)



Organized by the EIC User Group,  
CFNS, and Temple University  
<https://indico.bnl.gov/event/18414>


DOE NP contract: DE-SC0013405

Bernd Surrow

# Outline

- Agenda / INDICO
- Breakfast / Coffee
- Break / Lunch /
- Dinner
- Outside lunch vendors
- Wireless

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ELECTRON-ION COLLIDER**





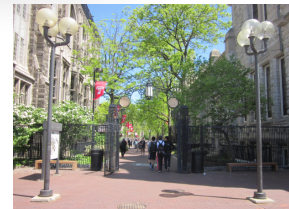
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# Agenda / INDICO

<input type="button" value="Wed 17/05"/> <input type="button" value="Thu 18/05"/> <input type="button" value="Fri 19/05"/> <input type="button" value="All days"/>	
<input type="button" value="Print"/> <input type="button" value="PDF"/> <input type="button" value="Full screen"/> <input type="button" value="Detailed view"/> <input type="button" value="Filter"/>	
08:00	<b>Breakfast</b>
09:00	<b>Introduction - Morning Session Part 1 / Day 1</b> <i>Bernd Surrow</i>
10:00	<i>SERC 116, Temple University</i> 08:30 - 10:10
	<b>Coffee Break</b>
11:00	<b>Physics 1 - Morning Session Part 2 / Day 1</b> <i>Charles Hyde</i>
12:00	<i>SERC 116, Temple University</i> 10:30 - 12:10
	<b>Lunch</b>
13:00	<i>SERC 116, Temple University</i> 12:10 - 14:00
14:00	<b>Detector 1 - Afternoon Session Part 1 / Day 1</b> <i>Klaus Dehmelt</i>
15:00	<i>SERC 116, Temple University</i> 14:00 - 15:40
	<b>Coffee Break</b>
16:00	<b>Physics 2 - Afternoon Session Part 2 / Day 1</b> <i>Bjoern Schenke</i>
17:00	<i>SERC 116, Temple University</i> 16:00 - 17:40

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08:00	<b>Breakfast</b>
09:00	<b>Physics 3 - Morning Session Part 1 / Day 2</b> <i>Anselm Vossen</i>
10:00	<i>SERC 116, Temple University</i> 08:30 - 10:10
	<b>Coffee Break</b>
11:00	<b>Detector 2 - Morning Session Part 2 / Day 2</b> <i>Wenliang Li</i>
12:00	<i>SERC 116, Temple University</i> 10:30 - 12:10
	<b>Lunch</b>
13:00	<i>SERC 116, Temple University</i> 12:10 - 14:00
14:00	<b>Detector 3 - Afternoon Session Part 1 / Day 2</b> <i>Prakhar Garg</i>
15:00	<i>SERC 116, Temple University</i> 14:00 - 15:40
	<b>Coffee Break</b>
16:00	<b>Flash Talks - Afternoon Session Part 2 / Day 2</b> <i>Simonetta Liuti</i>
17:00	<i>SERC 116, Temple University</i> 16:00 - 17:40
18:00	<i>SERC 116, Temple University</i> 16:00 - 18:45

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08:00	<b>Breakfast</b>
09:00	<b>Physics 4 - Morning Session Part 1 / Day 3</b> <i>Pawel Nadel-Turonski</i>
10:00	<i>SERC 116, Temple University</i> 08:30 - 10:10
	<b>Coffee Break</b>
11:00	<b>Physics 5 - Morning Session Part 2 / Day 3</b> <i>Simonetta Liuti</i>
12:00	<i>SERC 116, Temple University</i> 10:30 - 12:10
	<b>Lunch</b>
13:00	<i>SERC 116, Temple University</i> 12:10 - 14:00
14:00	<b>Detector 4 - Afternoon Session Part 1 / Day 3</b> <i>Thomas Ullrich</i>
15:00	<i>SERC 116, Temple University</i> 14:00 - 15:40
	<b>Coffee Break</b>
16:00	<b>Discussion - Afternoon Session Part 2 / Day 3</b>
17:00	<i>SERC 116, Temple University</i> 16:00 - 17:40

# Breakfast / Coffee Break / Lunch

## □ Breakfast / Coffee Breaks:

- **Breakfast:** 08:00 AM every day  
outside SERC 110A!
- **Coffee Breaks:** Morning (10:10 AM)  
and Afternoon (03:40 PM) breaks  
outside SERC 110A!

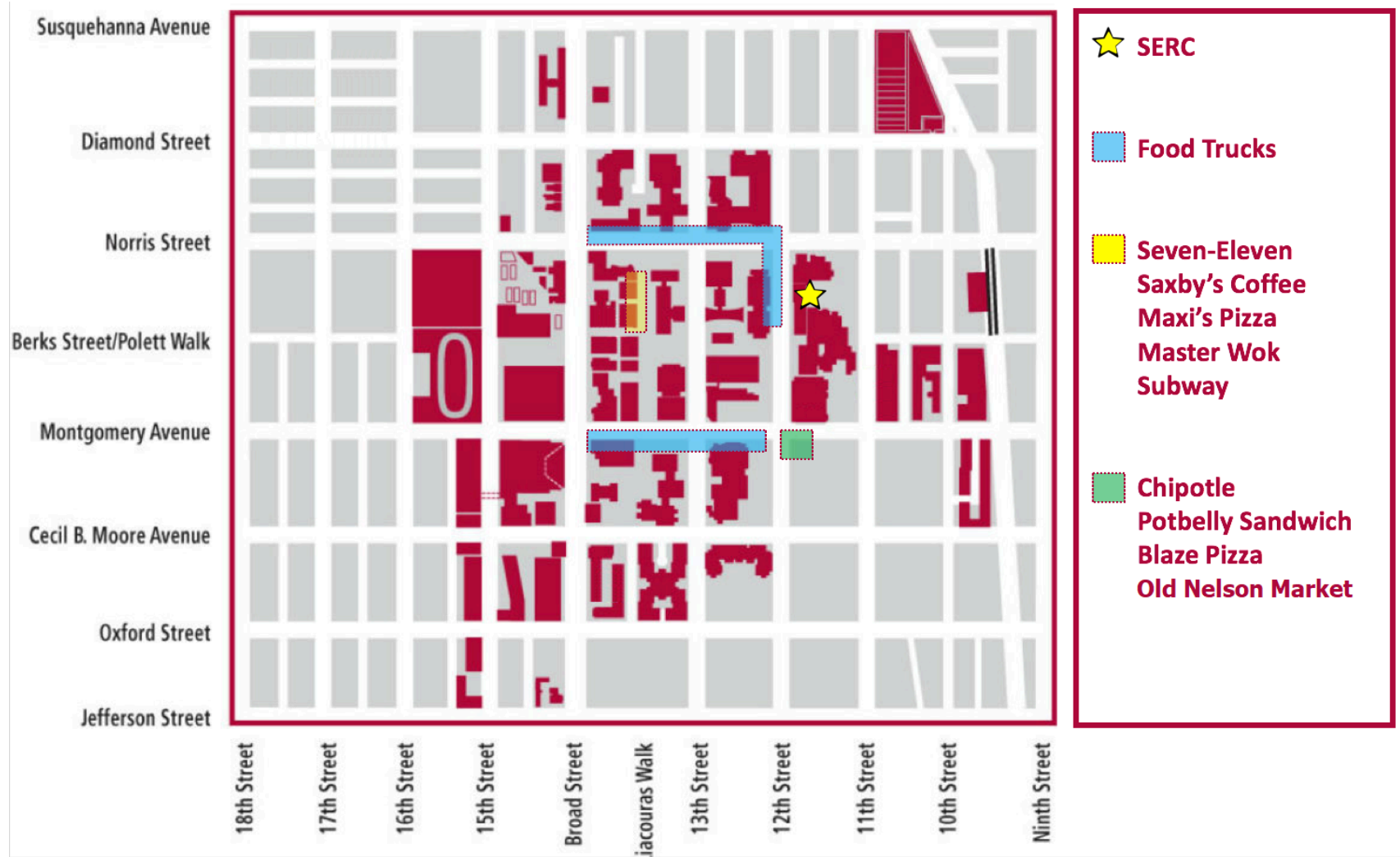


## □ Lunch: There are plenty of lunch places!



# Lunch

## □ Campus Map



# Water

□ If you are thirsty...:



Fill your favorite bottle outside in one of our filling stations!

# Dinner in Center City

□ Lot's of wonderful **dinner restaurants** in **Center City** area:

- Chinese in China Town
- Greek
- Pizza
- Cuban
- German
- Philly Cheese Steak
- Japanese
- Thai food
- Steak houses





# Wireless

□ All sessions will be live broadcasted using **ZOOM**.

□ **Wireless Instructions:**

○ **Option 1:** Use eduroam

Select the wireless network eduroam and login with your home institution credentials, i.e. your username and password from your home institution.

○ **Option 2:** Obtain temporary username / password using your cell phone

Temple's wireless network **tusecurewireless** requires a username and a password to connect to. If you have a Temple username and password, use them. Your username is your 10 digit cell phone number. Your password is obtained as follows:

□ Step 1: On your laptop or phone close all browsers.

□ Step 2: Connect to wireless network **tuguestwireless**.

□ Step 3: Open a browser and register using your cell phone.

□ Step 4: Your password is received as a text message on your cell phone.

□ After this, connect to wireless network **tusecurewireless** and login using your assigned username and password.  
For longer access periods, repeat as needed!





# Thank YOU

- Big Thanks to my research group and administrative staff!
- Let me know if you need a quite space to work!
- Enjoy yourself this week in Philadelphia!

<p>Wed 17   Day</p> <p><b>67°</b> ☀️</p> <p>Winds NNW 15 mph</p> <p>Mainly sunny. High 67F. Winds NNW at 10 to 20 mph.</p> <table border="1"> <tr> <td>Humidity 33%</td> <td>UV Index 8 of 10</td> </tr> <tr> <td>Sunrise 5:44 am</td> <td>Sunset 8:10 pm</td> </tr> </table>	Humidity 33%	UV Index 8 of 10	Sunrise 5:44 am	Sunset 8:10 pm	<p>Wed 17   Night</p> <p><b>42°</b> 🌙</p> <p>Winds N 13 mph</p> <p>Clear skies. Low 42F. Winds N at 10 to 20 mph.</p> <table border="1"> <tr> <td>Humidity 33%</td> <td>UV Index 0 of 10</td> </tr> <tr> <td>Moonrise 4:31 am</td> <td>Moonset 6:17 pm</td> </tr> <tr> <td colspan="2">● Waning Crescent</td> </tr> </table>	Humidity 33%	UV Index 0 of 10	Moonrise 4:31 am	Moonset 6:17 pm	● Waning Crescent	
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<p>Thu 18   Day</p> <p><b>69°</b> ☀️</p> <p>Winds ESE 10 mph</p> <p>Sunny. High 69F. Winds ESE at 10 to 15 mph.</p> <table border="1"> <tr> <td>Humidity 32%</td> <td>UV Index 8 of 10</td> </tr> <tr> <td>Sunrise 5:43 am</td> <td>Sunset 8:11 pm</td> </tr> </table>	Humidity 32%	UV Index 8 of 10	Sunrise 5:43 am	Sunset 8:11 pm	<p>Thu 18   Night</p> <p><b>50°</b> 🌙</p> <p>Winds SE 11 mph</p> <p>Mainly clear early, then a few clouds later on. Low near 50F. Winds SE at 10 to 15 mph.</p> <table border="1"> <tr> <td>Humidity 61%</td> <td>UV Index 0 of 10</td> </tr> <tr> <td>Moonrise 4:58 am</td> <td>Moonset 7:27 pm</td> </tr> <tr> <td colspan="2">● Waning Crescent</td> </tr> </table>	Humidity 61%	UV Index 0 of 10	Moonrise 4:58 am	Moonset 7:27 pm	● Waning Crescent	
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<p>Fri 19   Day</p> <p><b>71°</b> ☁️</p> <p>Winds SSE 13 mph</p> <p>Overcast. High 71F. Winds SSE at 10 to 15 mph.</p> <table border="1"> <tr> <td>Humidity 50%</td> <td>UV Index 5 of 10</td> </tr> <tr> <td>Sunrise 5:42 am</td> <td>Sunset 8:12 pm</td> </tr> </table>	Humidity 50%	UV Index 5 of 10	Sunrise 5:42 am	Sunset 8:12 pm	<p>Fri 19   Night</p> <p><b>56°</b> 🌧️</p> <p>Winds ESE 12 mph</p> <p>Partly cloudy skies early followed by increasing clouds with showers developing later at night. Low 56F. Winds ESE at 10 to 15 mph. Chance of rain 50%.</p> <table border="1"> <tr> <td>Humidity 75%</td> <td>UV Index 0 of 10</td> </tr> <tr> <td>Moonrise 5:28 am</td> <td>Moonset Screenshot</td> </tr> <tr> <td colspan="2">● New Moon</td> </tr> </table>	Humidity 75%	UV Index 0 of 10	Moonrise 5:28 am	Moonset Screenshot	● New Moon	
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