

Welcome to PSTP2109

Josh Pierce

Neutron Technologies Division

ORNL is managed by UT-Battelle, LLC for the US Department of Energy

Knoxville TN



- *Home to University of Tennessee*
- *Oak Ridge National Laboratory 30 miles to the west.*
- *We are next to Worlds Fair Park*
 - *1982 Worlds fair*
 - *Sunsphere!*
- *Downtown Holiday Inn*
 - *Convenient to Downtown Knoxville restaurants*

Knoxville TN



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Bart on the Road

The Simpsons episode (season 7, episode 20)



Bart and his friends take a spring break road trip in a rental car, while Lisa stays home and bonds with Homer.

Show: [The Simpsons](#)

Season number: 7

Episode number: 20

Air date: March 31, 1996

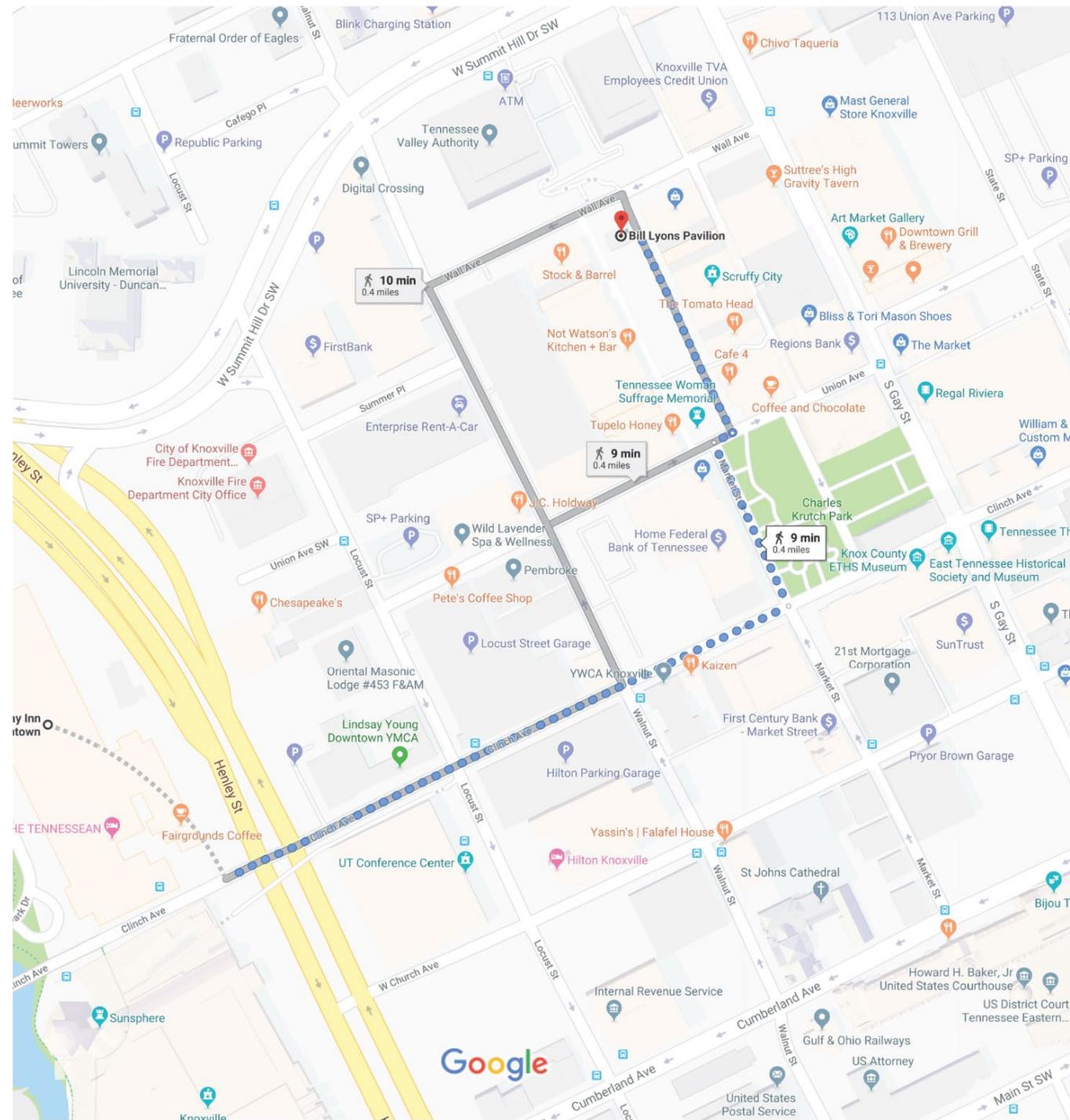
Previous episode: [A Fish Called Selma](#)

Next episode: [22 Short Films About Springfield](#)



Logistics! Food!

- Lunch is on your own
- Lots of nearby restaurants
 - Market Square ~0.4 miles
 - Gay Street ~0.4 miles
 - Use the Footbridge to cross Henley St.,
- A little farther
 - Old City ~0.7 miles
 - Cumberland Avenue ~1 mile
- **Hotel Shuttle available!**

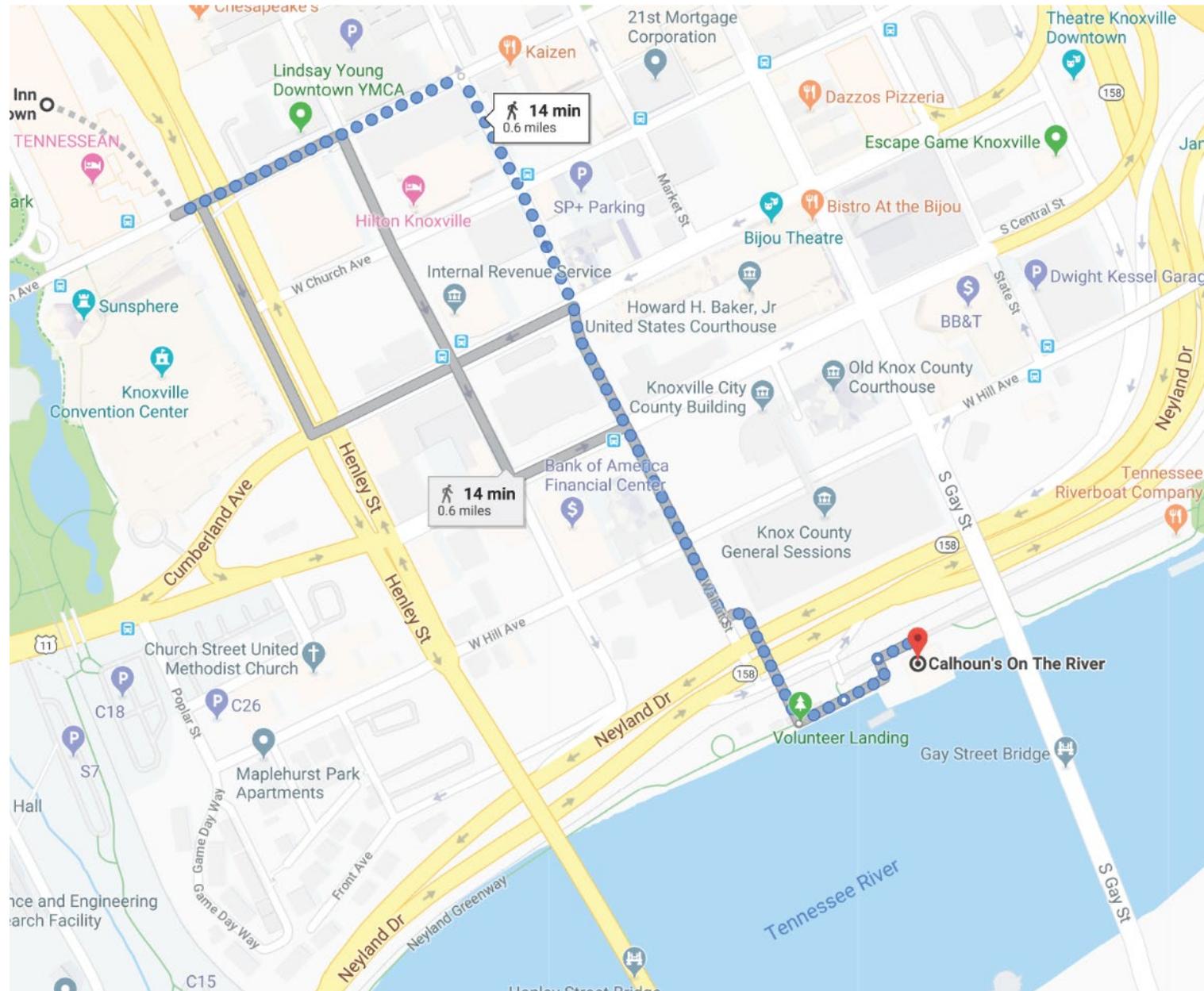


ORNL Tour

- *Lunch will be provided for those on tour*
 - *“Working Lunch” talk on the history of the High Flux Isotope Reactor at ORNL*
- *Bus will go from Hotel to the Spallation Neutron Source*
- *After Spallation Neutron Source tour, group will go to the Graphite Reactor*
- **Only those who registered for the tour will be allowed on the ORNL campus!**
- *If you are going on the tour, please verify with Talia or Josh that your ORNL access was approved*

Conference Dinner

- Wednesday (after tour)
- Callhoun's on the Tennessee River
 - ~0.6 miles on foot
 - **Hotel Shuttle Available**
- Bar is available at 5:30pm
- Dinner starts at 6:00pm
 - Ends at 8:00pm



Non-Workshop Knoxville



<https://insideofknoxville.com/> (event information for downtown)

<https://www.visitknoxville.com/> (event information including music)

<https://www.visitknoxville.com/restaurants/breweries/> (if you're into beer)

<https://www.nourishknoxville.org/market-square-farmers-market/> (farmer's market)

<http://www.easttnhistory.org/> (Eastern TN history museum \$5 admission, free on Sundays)

<https://www.knoxart.org/> (free!)

<https://www.visitknoxville.com/event/the-nina-and-pinta-in-knoxville/13762/>
(Replica Nina and Pinta Ships touring Knoxville, on the river, right at the dinner venue)



Talk Upload

- Powerpoint or PDF
- Browser Compatibility
 - Reported problems with Internet Explorer
 - Chrome and Safari seem to work fine
- If you have trouble...
 - Josh or Talia can help or upload for you

2019 Workshop on Polarized Sources, Targets, and Polarimetry

23-27 September 2019
Downtown Holiday Inn
US/Eastern timezone

Upload

- Upload Talk

The Workshop on Polarized Sources, Targets, and Polarimetry has been a tradition for more than 20 years, moving between Europe, USA, and Asia. The 18th International Workshop on Polarized Sources, Targets, and Polarimetry (PSTP 2019) will take place at Knoxville, Tennessee. The workshop addresses technical challenges and accomplishments related to polarized gas/solid targets, polarized electron/positron/ion/neutron sources, polarimetry, and applications of polarized techniques.

Abstract Submission is Closed

Upload talks using the link on the left side of the page. After selecting your talk, scroll down to presentation materials at the bottom, and click the edit icon (a little pencil) and upload your talk.

Older browsers do not support this. Google Chrome is recommended.

Starts 23 Sep 2019, 08:00
Ends 27 Sep 2019, 16:00
US/Eastern

Downtown Holiday Inn
Knoxville, Tennessee

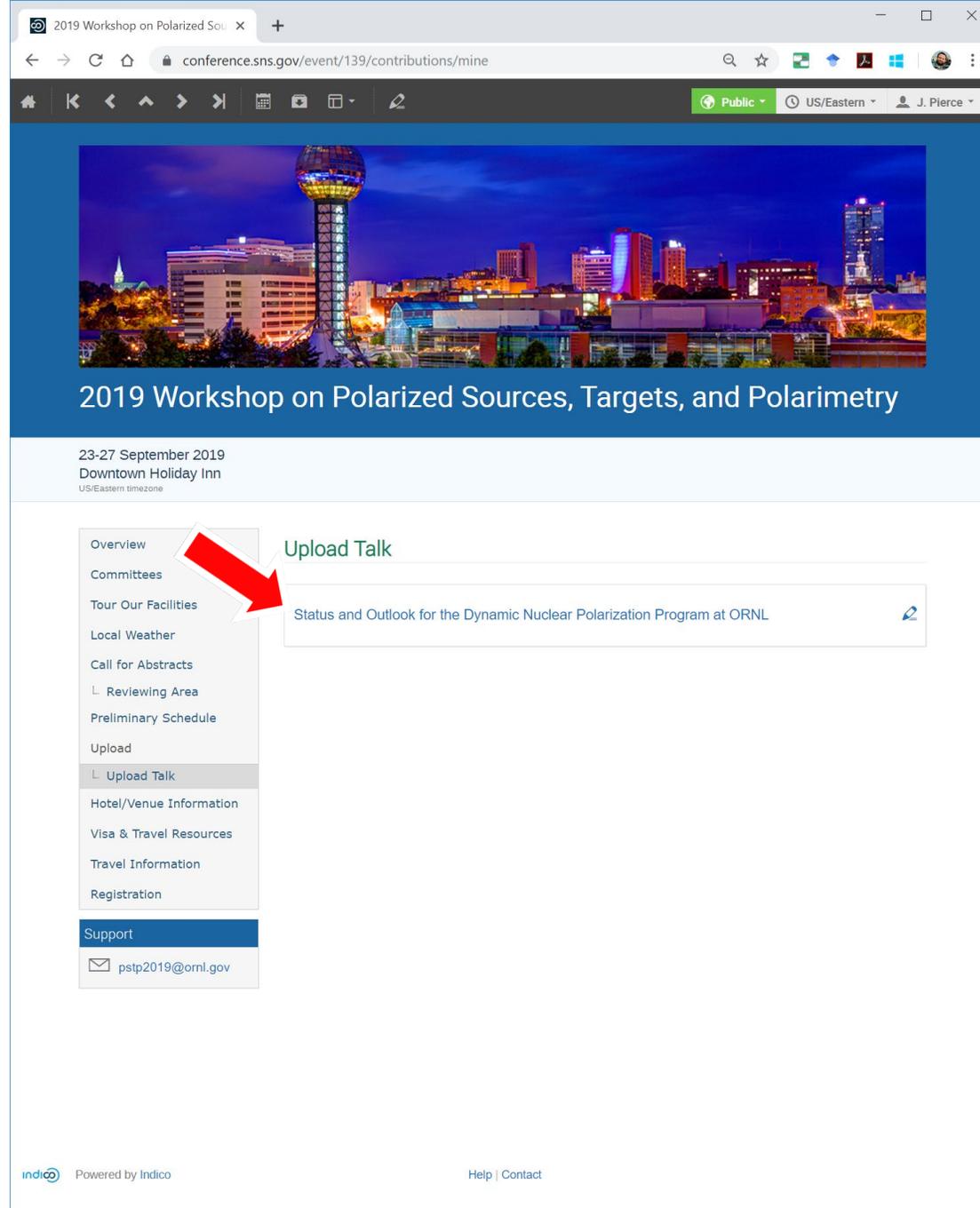
Poster

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pstp2019@ornl.gov

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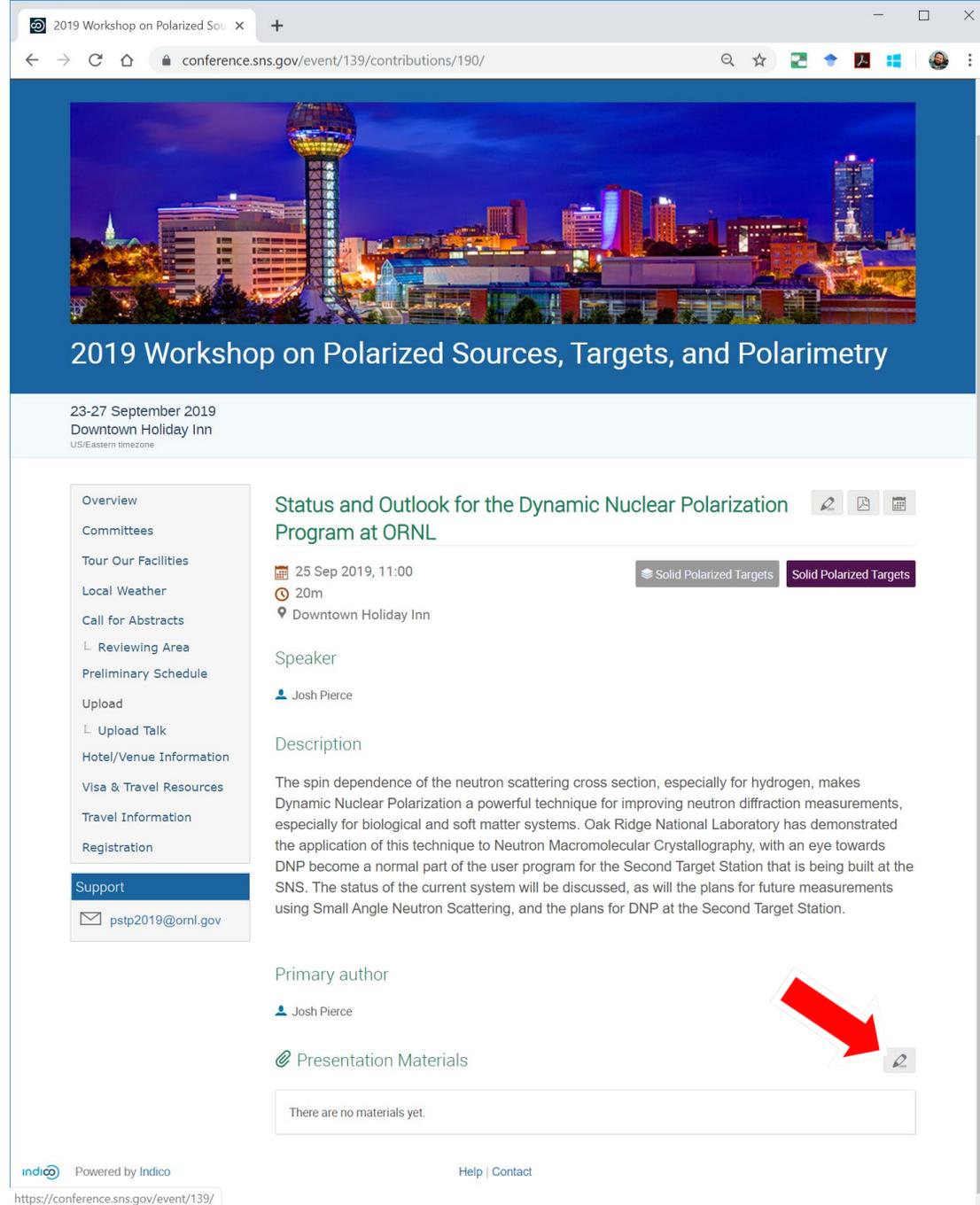
Status and Outlook for the Dynamic Nuclear Polarization Program at ORNL

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✉ pstp2019@ornl.gov

Status and Outlook for the Dynamic Nuclear Polarization Program at ORNL

25 Sep 2019, 11:00
20m
Downtown Holiday Inn

Speaker
Josh Pierce

Description

The spin dependence of the neutron scattering cross section, especially for hydrogen, makes Dynamic Nuclear Polarization a powerful technique for improving neutron diffraction measurements, especially for biological and soft matter systems. Oak Ridge National Laboratory has demonstrated the application of this technique to Neutron Macromolecular Crystallography, with an eye towards DNP become a normal part of the user program for the Second Target Station that is being built at the SNS. The status of the current system will be discussed, as will the plans for future measurements using Small Angle Neutron Scattering, and the plans for DNP at the Second Target Station.

Primary author
Josh Pierce

Presentation Materials

There are no materials yet.

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https://conference.sns.gov/event/139/