

Welcome to PSTP2109

Josh Pierce

Neutron Technologies Division

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



U.S. 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

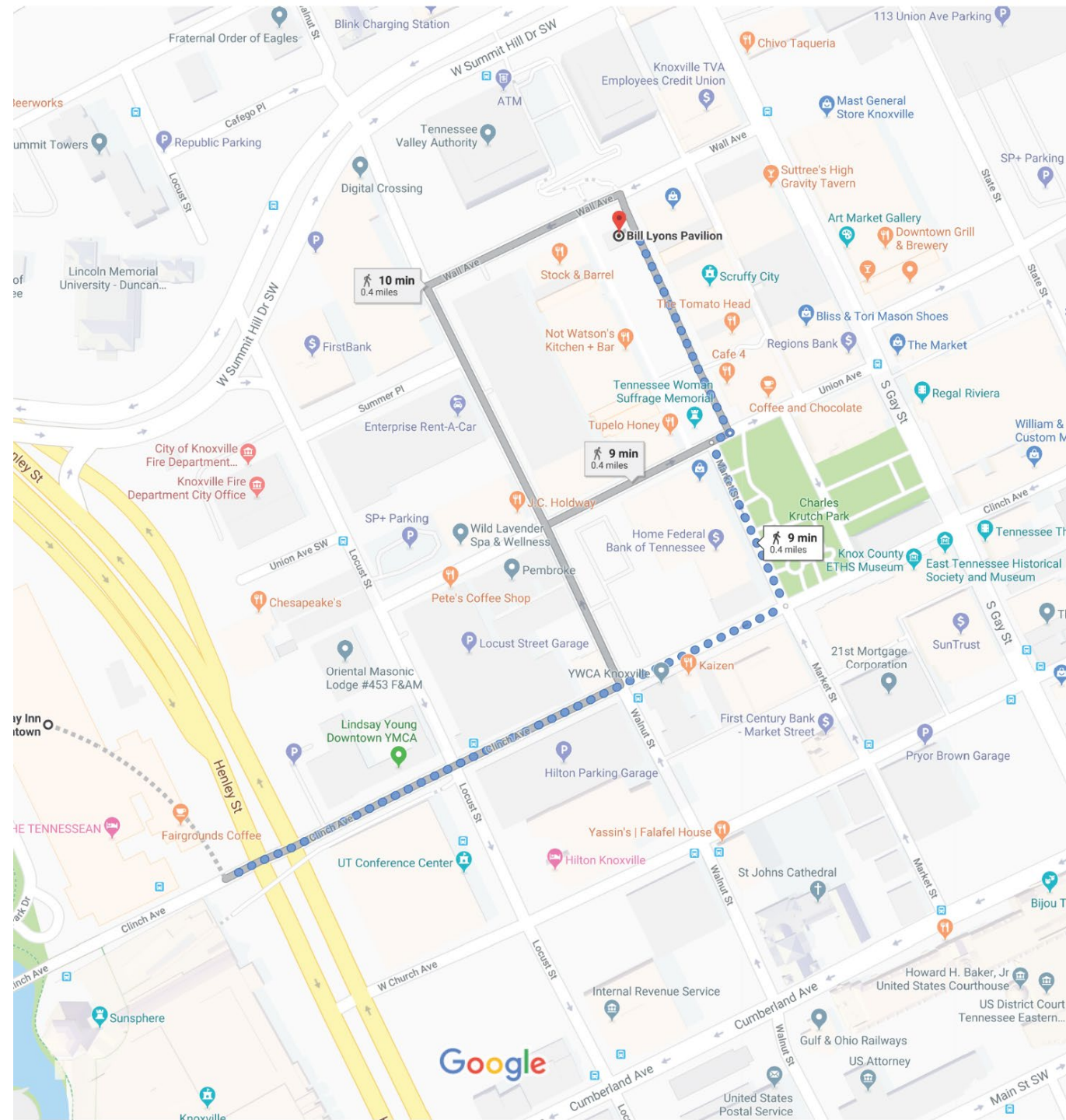
Previous episode: [A Fish Called Selma](#)

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!**

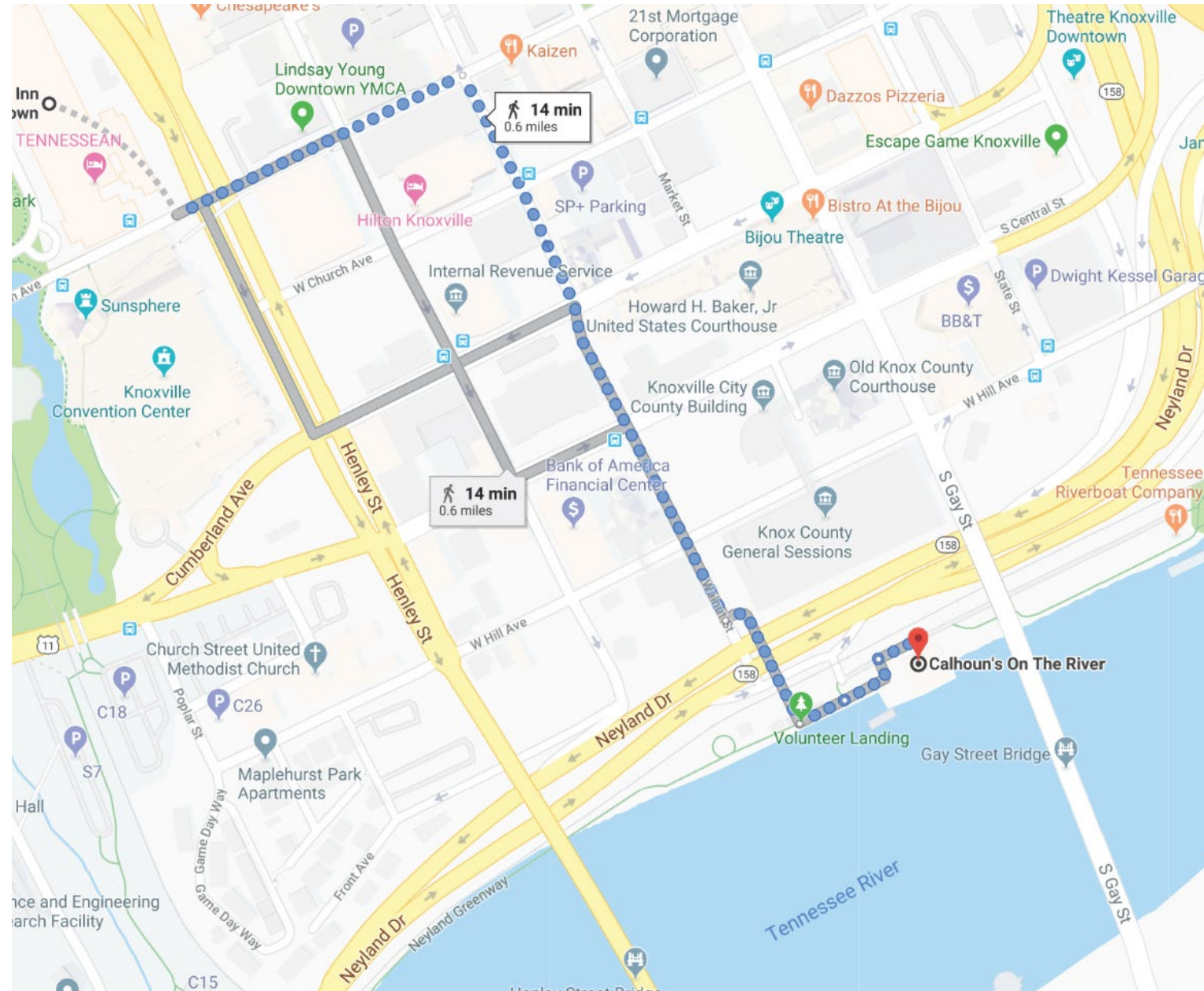


ORNL Tour

- 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

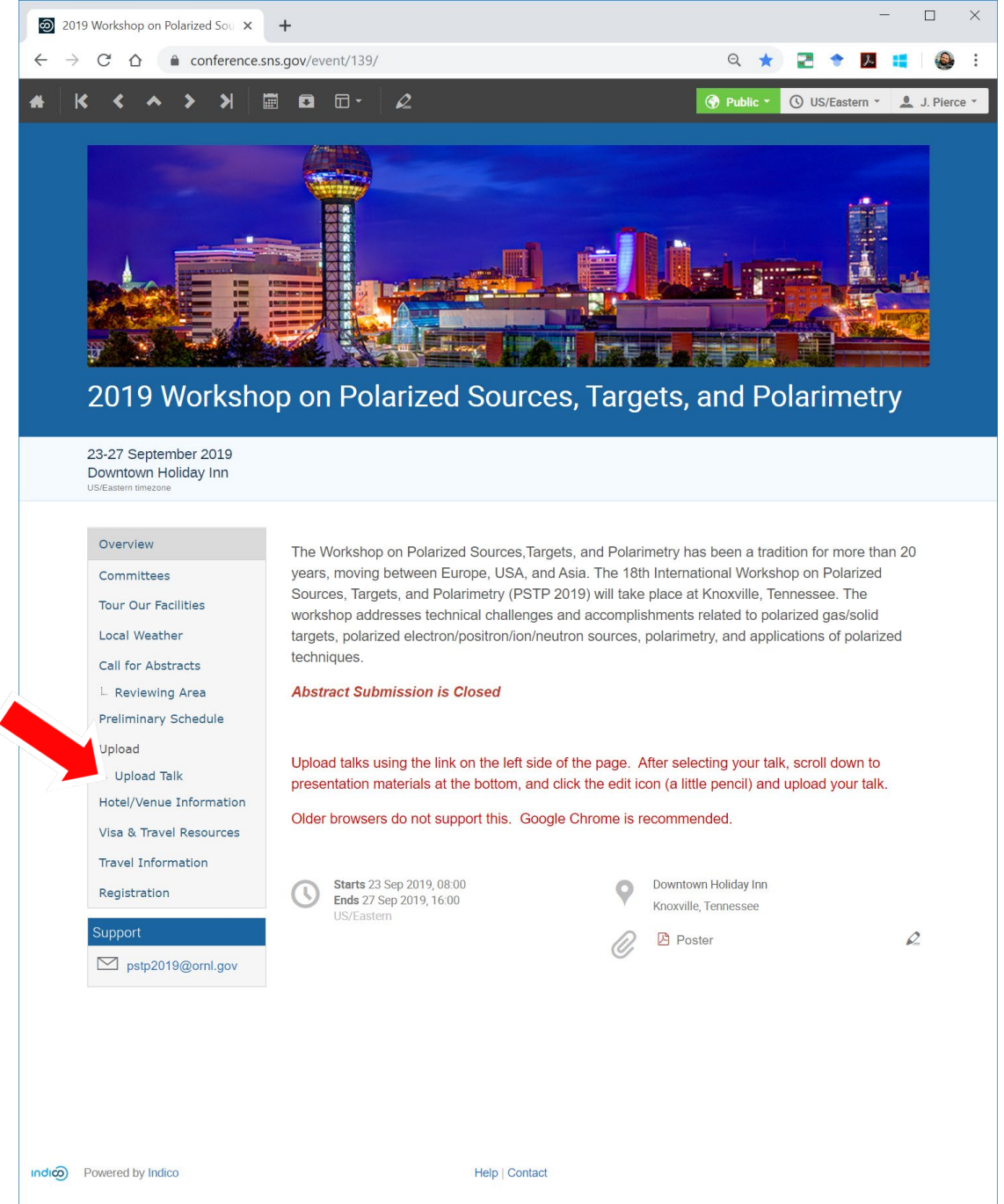
- Wednesday (after tour)
- Callhoun's on the Tennessee River
 - ~0.6miles on foot
 - **Hotel Shuttle Available**
- Bar is available at 5:30pm
- Dinner starts at 6:00pm
 - Ends at 8:00pm



[illegible]

Talk Upload

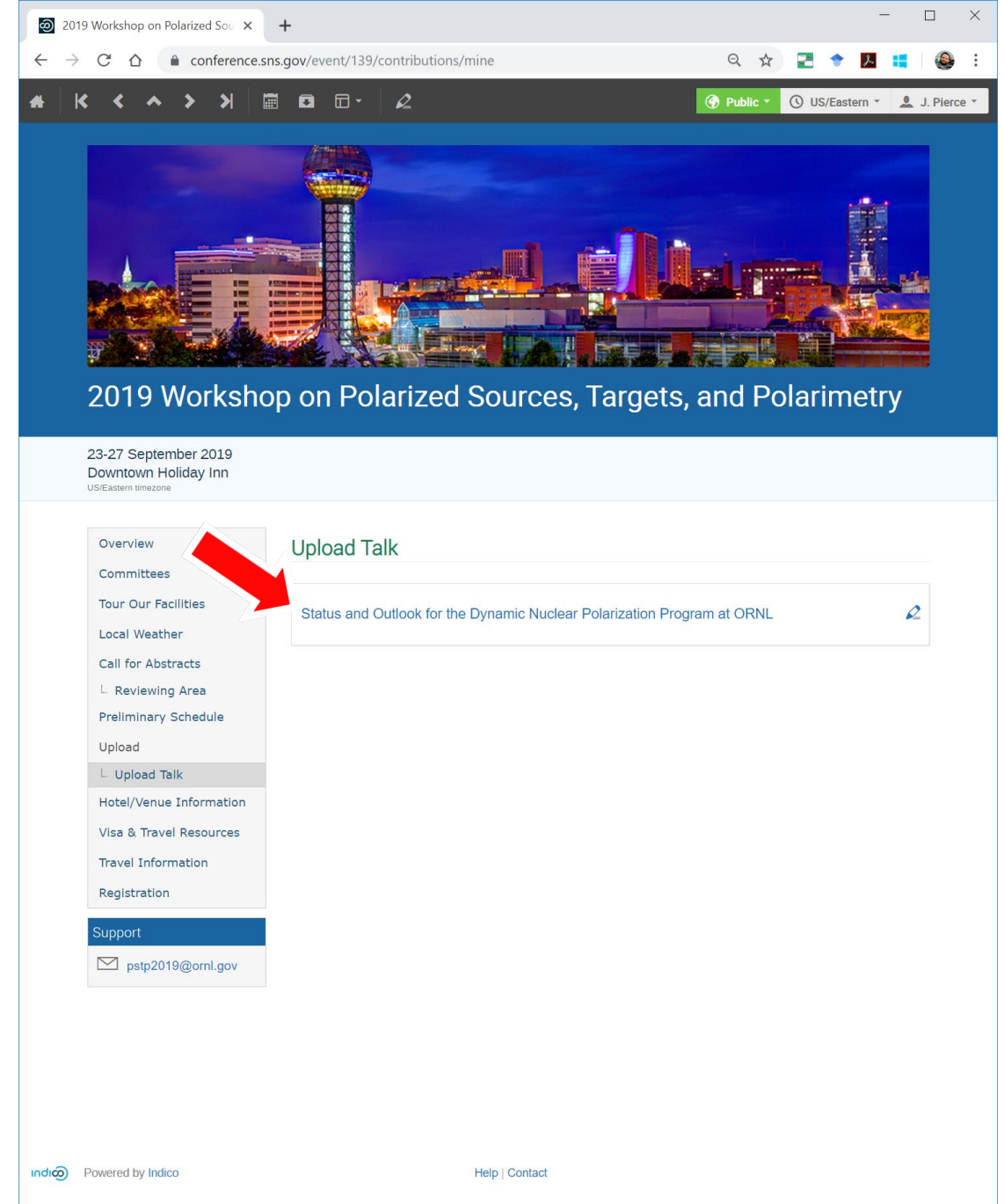
- Powerpoint or PDF
- Browser Compatibility
 - Reported problems with Internet Explorer
 - Chrome and Safari seem to work fine
- If you have trouble...
 - Josh or Talia can help or upload for you



The screenshot shows a web browser displaying the conference website. The browser's address bar shows the URL `conference.sns.gov/event/139/`. The page features a header with a city skyline image and the title "2019 Workshop on Polarized Sources, Targets, and Polarimetry". Below the header, the dates "23-27 September 2019" and the location "Downtown Holiday Inn" are listed. A left sidebar contains a menu with items like "Overview", "Committees", "Tour Our Facilities", "Local Weather", "Call for Abstracts", "Reviewing Area", "Preliminary Schedule", "Upload", "Upload Talk", "Hotel/Venue Information", "Visa & Travel Resources", "Travel Information", "Registration", and "Support". A red arrow points to the "Upload Talk" link. The main content area includes a paragraph about the workshop's history, a red notice "Abstract Submission is Closed", and instructions for uploading talks. It also displays the event schedule: "Starts 23 Sep 2019, 08:00" and "Ends 27 Sep 2019, 16:00" in US/Eastern time, and the location "Downtown Holiday Inn, Knoxville, Tennessee". At the bottom, there is a footer with the "indico" logo and the text "Powered by Indico", along with "Help" and "Contact" links.

Talk Upload

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2019 Workshop on Polarized Sources, Targets, and Polarimetry

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

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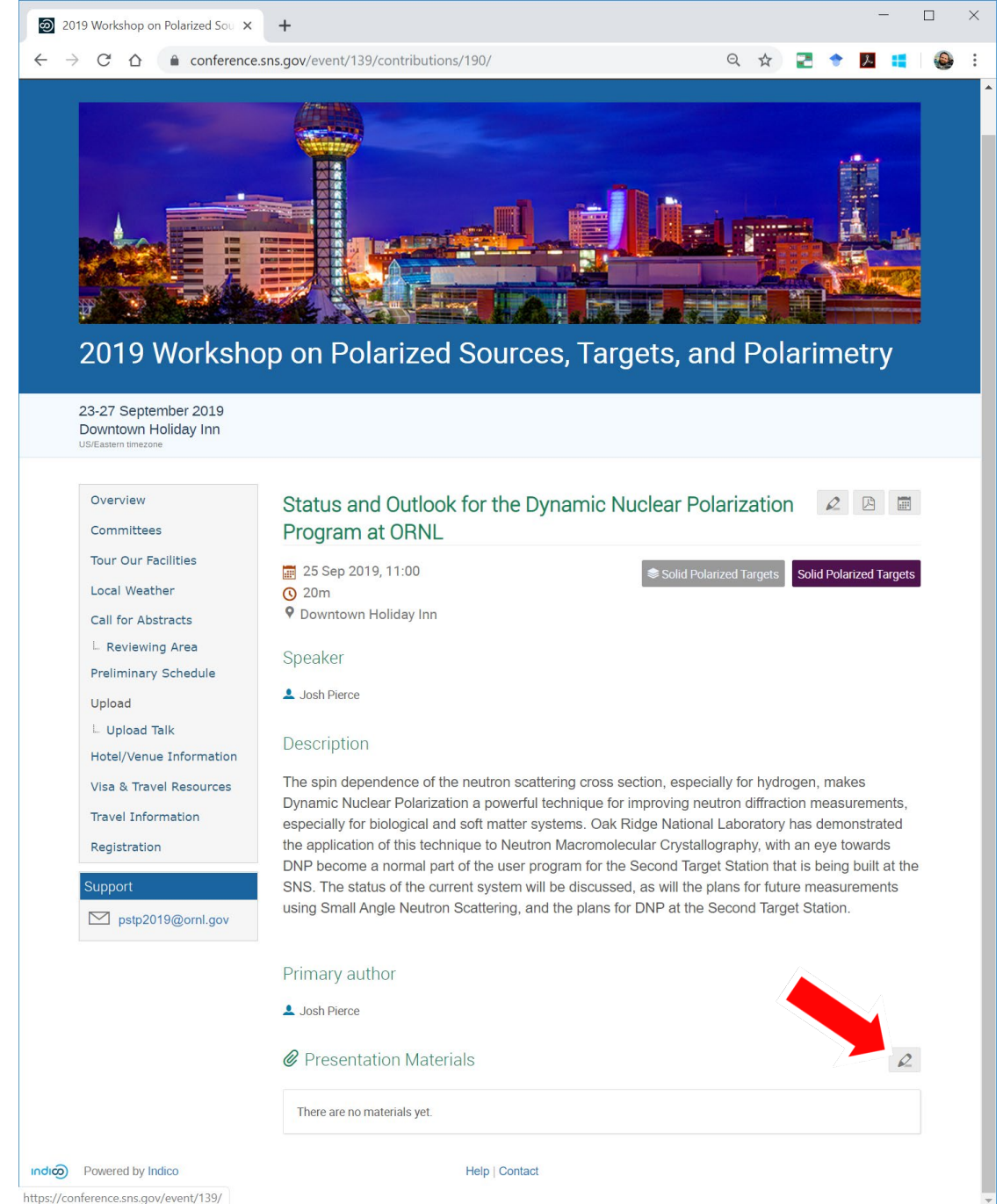
Status and Outlook for the Dynamic Nuclear Polarization Program at ORNL

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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/