Welcome to the 64th Westinghouse Science Honors Institute (WSHI)

Sponsored By: Westinghouse Electric Company
Safety Brief

- We do not anticipate there will ever be an emergency but we want you to be prepared just in case. Your safety is very important to us.
- You will be asked to leave the auditorium in an orderly fashion.
- You will also be given instructions on where to gather—most likely the parking area right outside the main entrance doors.
- The exit doors of the auditorium are at the rear. You will then turn right to exit the building.
- After you exit the building, please wait for further instructions.
- Please be especially mindful in the parking lot when you arrive and depart. There will be a lot of activity with people and cars and we don’t want anyone to get hurt or cars to get wrecked.
Safety Brief

A Safe Halloween is a Happy Halloween!
Halloween Safety On and Off the Road

Kids love the magic of Halloween: Trick-or-treating, classroom parties and trips to a neighborhood haunted house. But for moms and dads, often there is a fine line between Halloween fun and safety concerns, especially when it comes to road and pedestrian safety.

In 2017, 7,450 pedestrians died in traffic or non-traffic incidents, according to Injury Facts. Non-traffic incidents include those occurring on driveways, in parking lots or on private property.

NSC research reveals almost 18% of these deaths occurred at road crossings or intersections. Lack of visibility because of low lighting at night also plays a factor in these deaths.

Here's a scary statistic: Children are more than twice as likely to be hit by a car and killed on Halloween than on any other day of the year. In 2017, October ranked No. 2 in motor vehicle deaths by month, with 3,700. July is No. 1, with 3,830 deaths.
Halloween Safety

Costume Safety

To help ensure adults and children have a safe holiday, the American Academy of Pediatrics has compiled a list of Halloween safety tips. Before Halloween arrives, be sure to choose a costume that won’t cause safety hazards.

- All costumes, wigs and accessories should be fire-resistant
- Avoid masks, which can obstruct vision
- If children are allowed out after dark, fasten reflective tape to their costumes and bags, or give them glow sticks
- When buying Halloween makeup, make sure it is nontoxic and always test it in a small area first
- Remove all makeup before children go to bed to prevent skin and eye irritation
Halloween Safety

When They're on the Prowl

- A responsible adult should accompany young children on the neighborhood rounds
- If your older children are going alone, plan and review a route acceptable to you
- Agree on a specific time children should return home
- Teach your children never to enter a stranger’s home or car
- Instruct children to travel only in familiar, well-lit areas and stick with their friends
- Tell your children not to eat any treats until they return home
- Children and adults are reminded to put electronic devices down, keep heads up and walk, don't run, across the street
Halloween Safety

Safety Tips for Motorists

NSC offers these additional safety tips for parents – and anyone who plans to be on the road during trick-or-treat hours:

- Watch for children walking on roadways, medians and curbs
- Enter and exit driveways and alleys carefully
- At twilight and later in the evening, watch for children in dark clothing
- Discourage new, inexperienced drivers from driving on Halloween
Cell Phones

• Cell phones must be silenced during morning announcements and lectures.
• Texting is not permitted except for messaging parents, transportation, or emergencies.
• We expect you silence your cell phone during the lecture. It is distracting to students sitting around you and is disrespectful to the speaker.
Overview of WSHI

- Contacts
- Email Addresses
- Rules and Requirements
- Schedule and Breakfast
- Lectures (Presentations and videos)
- Breazeale Nuclear Reactor tour at Penn State University
WSHI Contacts

• Contact Us
  – westinghousesciencehonorsinstitute@westinghouse.com.

• Westinghouse Science Honors Institute Leaders
  – Andy McIlree
  – Carl Schwartz
  – Tim Crede
  – Melanie Joseph
  – Amy Miller
Email Addresses of Students

- WSHI will be sending announcements and updates via email, including information about the lecture notes.
- It is preferred that each student provide a non-school assigned email. We are have issues with emails being undeliverable.
  - We will not share your email address and will only send emails regarding WSHI.
- If you do not provide an email, you will not receive information about lectures and other possible announcements.
- If you have not completed the online registration form (or have not communicated with WSHI directly) please use the WSHI email address to complete your registration.
WSHI Rules

• Cameras or video cameras are permitted only with prior approval of the WSHI leaders
• Your access at Franklin Regional Middle School is limited to the entrance hall, cafeteria, auditorium, rest rooms, and parking lot ONLY.
• No food or beverages, including containers or bottles of water, are to be taken into the auditorium.
• Clean up your trash when you leave the cafeteria.
• WSHI is grateful that Franklin Regional Middle School allowed us to use their facilities. Be respectful of their property. Anyone who defaces, damages, or destroys Franklin Regional Middle School property or buildings will be prosecuted.
• No smoking, weapons, illegal drugs, or alcohol.
WSHI Rules (continued)

• Be quiet during the lecture or you will be asked to leave and you will not be given credit for attending the lecture.
• Be respectful to the speakers, other students, and WSHI Leadership.
• Cell phones must also be silenced, except for emergencies.
• The speakers are volunteering their time to be here and we expect you to be courteous and respectful.
• Talking and active cell phones are also distracting to others nearby who are trying to listen and pay attention to the lecture. If you are carrying on extended conversations, looking at or texting on your cell phone, and not paying attention to the speaker, you will be asked to leave.
WSHI Rules (continued)

• Any violation of the WSHI rules may result in expulsion from WSHI. The decision of the WSHI staff is final.

• In prior years students have been expelled for inappropriate behavior. Letters were sent to their parents, teacher or guidance counselor who nominated them, and principal. Save yourselves that embarrassment by behaving as responsible young adults.
Weather Cancellations

• On rare occasions, lectures need to be rescheduled due to the weather.
• Cancellation notices will be sent via email.
• Make sure that we have your correct email!
Requirements for Certificate

• Attend at least seven lectures OR six lectures and one trip to Penn State. It is our hope that you attend as many lectures as you can—not just the minimum number for obtaining a certificate. We will NOT make an exception so please plan accordingly while it is early in the program.

• Obey WSHI’s rules, including being respectful to the speakers, other students, and WSHI Leaders.

• AGAIN, NO EXCEPTIONS WILL BE MADE TO THESE REQUIREMENTS.
Requirements for Attendance

• You are free to leave when the speaker has finished the formal part of their presentation, typically around 11:00 AM.

• However, if you must leave **BEFORE** 11:15 AM and the speaker is still giving their presentation:
  – Be quiet as you are departing so you do not disrupt the other students still listening to the lecture.

• If you must be absent for any lectures, there is **NO** need to notify the WSHI staff in advance.
Schedule

• Arrive between 8:30 and 9:30 AM in order to check in. Students should be checked in and seated in the auditorium by 9:45 AM.

• A WSHI leader will scan your ID badge each time you are in attendance so you can be checked in. Your ID badge should be visible the whole time you are attending WSHI.

• We expect you to remember your ID badge each time you attend. If you lose your ID badge, please email WSHI and we will issue you another badge via email.
Schedule (continued)

• If you would like morning refreshments, allow enough time to get through the check-in line and eat before the lecture starts.

• Lectures begin at 9:45AM and generally end around 11:15AM.
  – Speakers remain available after their lecture for questions and answers.

• Parents are also welcome to listen to the lectures in the auditorium but we request they sit in the back so the seats in the front are occupied by the students.

• Students **MUST** be picked up by noon at the latest.
Breakfast

• Free breakfast refreshments and beverages will be available in the cafeteria each morning there is a lecture. Parents are also invited to enjoy the breakfast refreshments.

• If the cafeteria gets crowded and you are finished with your refreshments, you are permitted to wait in the auditorium until the lecture begins. You are NOT permitted to go anywhere except the cafeteria, auditorium, and restrooms.

• Food and beverages, including bottles and containers of water, and including food and beverages you may have brought yourself, are NOT permitted in the auditorium. This applies to both students and parents. This is a clear and easy rule to follow.

• We are very grateful that the Franklin Regional School District permits us to use their auditorium and we will be respectful of their property. You may leave bottles and containers of water at the check-in table before entering the auditorium.

• Place your garbage in one of the trash cans before you leave the cafeteria. Clean up after yourselves!

• If there are any left-over refreshments, we will put them on the check-in table and you are free to help yourselves at the conclusion of the lecture.
Lecture Series

• Variety of topics for students considering careers in science, engineering and medicine.
• Topics:
  – Nuclear power production
  – Future human exploration of the solar system
  – Adventures in Engineering: Lasers and mechatronics
  – Crime Scenes: Science and Engineering
  – What is Bioengineering?
  – Searching for the missing 96% of the universe
  – End of the age of dinosaurs in Antarctica
  – The Potential of Adipose tissue and adipose-derived stem cells
  – AI and Robotics for Agriculture
  – MAYA Design topic - TBA
  – Anatomic ACL reconstruction – A Changing Paradigm
Lecture Notes

- Two to three days before the talk, lecture notes will be available on the WSHI internet site for you to print, if you would like to do so. To find the lecture notes, go to Resources, For Students, and click on 2019-2020 Schedule. Then click on the title of the talk and the lecture notes will come up.
  
  [http://www.westinghousenuclear.com/wshi](http://www.westinghousenuclear.com/wshi)

- You will be notified by email when the lecture notes are available, as long as you have registered an active email address.

- Printing of the lecture notes is optional. We post the lecture notes which our speakers provide, which are often copies of their presentations.
Videos of the Lecture Series

• Each lecture is recorded and will be uploaded to YouTube
• The videos will be distributed via a secure link
• The contents of the videos may NOT be copied, and will be available until March 2020
  – This was included in the waiver and consent form
• All login information and instructions will be provided with the first lecture link
Penn State Reactor Tour – Overview

• Westinghouse Electric Company is sponsoring two trips to Penn State to visit the Radiation Science and Engineering Center’s Breazeale nuclear reactor.
• As stated in the information packet and emails, the bus trips were filled as the completed application forms were received.
• If you signed up for a trip and space was available when your application was received, you should have received a notification email or been alerted while picking up your badge.
• The October 26 trip still has some seats available. Please let WSHI know via email if you have interest in attending.
• The February 1 trip is currently filled to capacity so we have a waiting list in the event of cancellations.
Penn State Reactor Tour – Overview

• If you are scheduled for a Penn State trip and now find you can’t attend, please email **WSHI as soon as possible**.
• Students are not permitted to switch trip dates themselves with other students.
• Although we realize things can come up shortly before the trips, indicating a student is not going to attend the trip the night before is not sufficient. This does not allow us time to contact the next student on the waiting list and offer them the open space. Also in the past some students simply do not show up for the trip and never notify us. This leaves empty spaces that other students could fill. Please be respectful of the other students and notify us as soon as you know you are not going to attend.
Penn State – Schedule

- Buses will start to load around 5:45 AM and will depart Franklin Regional Middle School around 6:00 AM.
- You need to come into Franklin Regional Middle School to check in at the front table so you get credit for being present.
- Morning and afternoon snacks and water will be provided on the bus, and Westinghouse will pay for your buffet lunch at Penn State.
- We anticipate arriving back at Franklin Regional Middle School between 5:30-6:15 PM. Students must be picked up by 6:15 PM at the latest.
- We are NOT able to accommodate requests to pick students up or drop them off at locations other than Franklin Regional Middle School.
- If you prefer to meet us at Penn State instead of riding the bus, please have your parents send an email to WSHI and we will determine if your request can be accommodated.
Penn State – Schedule (continued)

- We will be walking outdoors part of the time so please listen to the weather forecast and dress appropriately.
- Penn State requires that you wear closed-toe shoes.