

TOUCHTOMORROW

A FESTIVAL OF SCIENCE, TECHNOLOGY, AND ROBOTS

June 8, 2019
10 am–4 pm

FESTIVAL PROGRAMMING

Events are subject to change. For the latest information, please refer to the *TouchTomorrow* app or website.

MAIN STAGE ON THE QUAD

10:30 am, 2:30 pm | Kosmic Kelly: Spectacular Science Show

Exciting, educational, and interactive fun featuring all of the best experiments! Fizzy rainbow volcanoes, elephant toothpaste, “flying things,” gaseous bubbling beakers, giant bubble snake, and more!

12:00 pm, 1:00 pm | Animal Adventures:

Animal Encounter Show

A live experience with exotic animals! Hear interesting stories and get up close to animals such as a snake, alligator, lemur, owl, armadillo, and African bush baby!

MAIN STAGE IN THE RUBIN CAMPUS CENTER, ODEUM

11:00 am | Woodie Flowers: FIRST Executive Advisory Board Co-Chair and Distinguished Advisor

Access to “facts” is ubiquitous, but knowing how to recognize truth is important. Knowing what to do with facts is ascendant. In a decade or so, uniquely human talents and skills—empathy, creativity, leadership, judgment, ethics acumen—will be essential to staying in the game. To help people in their quest, the education system and the students should accelerate change. The presentation will discuss the difference between education and training, present some delightful examples of progress, and celebrate nerd epistemology and humanistic meta-cognition.

12:30 pm | Lisa May: Deputy Space Exploration Architect, Lockheed Martin

At Lockheed, Lisa May develops concepts for human exploration of the Moon and Mars. Earlier, as CEO of Murphian Consulting, she worked in such technology fields as nuclear, forensics, space, and transportation. She also consulted to the UAE Space Agency on their Mars mission: Hope. Before starting her firm, she worked at NASA headquarters managing the Mars Exploration Program and chairing the International Mars Exploration Working Group.

2:00 pm | Paul Ventimiglia: Multiple-time BattleBots Winner and WPI alumnus

GATEWAY PARK | 60 PRESCOTT STREET PRESENTATION ROOM

10:30 am, 11:30 am, 12:30 pm, 1:30 pm, 2:30 pm | First Light: Celebrating 20 Years of Chandra X-Ray Observatory

Join us for an exciting MA film premiere! In the past two decades, NASA’s Chandra X-ray Observatory has made profound discoveries and contributed invaluable information about the cosmos and the wondrous objects within it. This short film touches upon the challenges of creating the technology behind Chandra, as well as some of the most exciting science as a result of that endeavor. (20 minutes) 10:30 & 12:30 viewings include Q&A time with a NASA scientist!

FULLER LABS | LOWER PERREAULT HALL

11:00 am, 12:30 pm, 2:00 pm | Inventing Tomorrow

In this riveting documentary film, you will meet passionate teenage innovators from around the globe who are creating cutting-edge solutions to confront the world’s environmental threats. Journey with them as they prepare their projects for the largest convening of high school scientists in the world, the Intel International Science and Engineering Fair (ISEF). (60 minutes).

WPI RESEARCH EXHIBITS, TOURS, AND ACTIVITIES: SCHEDULED EVENTS

You’ll find some 50 faculty and student research laboratories and exhibits across campus! Download the *TouchTomorrow* app or visit the website for a full listing, more details on each activity, and locations.

The following activities have scheduled demonstrations or shows. Some will require advanced registration on June 8, as they have limited availability.

Alden Memorial

Music Perception and Robots | Spaulding Recital Hall (lower level)
Performances at 10:00 am, 11:00 am, 1:00 pm, 2:00 pm

Bartlett Center

Home Network Security: An Expert Perspective | Presentation Room
Presentations at 11:30 am, 12:30 pm, 1:30 pm

Discovery Crossing

The Energy Boom: Learn How Fuel Cells Turn Hydrogen and Oxygen into Energy
Interactive demonstrations start every half hour, 10:00 am to 4:00 pm

Foisie Innovation Studio

Are You Positive It’s Positive? The Powerful Math of Bayer’s Formula | Room 205
Shows every half hour, 10:00 am to 4:00 pm

What Can You Learn From Making a Sandwich? | Diamond Lounge
Interactive presentation on the socio-technical system
11:30 am, 1:30 pm, 2:30 pm

Tour the Fitzgerald Prototyping Lab

15- minute tours start at 10:30 am, 11:00 am, 11:30 am, 12:00 pm, 1:30 pm, 2:00 pm, 2:30 pm, 3:00 pm, 3:30 pm | Limited to 15. Sign-up required.

Gateway Park - 50 Prescott Street

Fire Protection Engineering Lab Tours | First Floor
Sign up in the lobby. Space limited to 25.
Tours at 10:30 am, 11:30 am, 12:30 pm, 1:30 pm, 2:30 pm, 3:30 pm

Gateway Park - 85 Prescott Street

Robot Teleoperation, Soft Snakelike Robot, Swarming Robots
45-minute demos begin at 11:00 am, 1:00 pm, 3:00 pm

GODDARD HALL

Experience Biochemistry: Glowing Reactions | Room 109
Sign-up required. Space limited to 15. Offered at 10:00 am, 11:00 am, 12:00 pm, 1:00 pm, 2:00 pm, 3:00 pm

Experience Chemistry: Make a Raspberry-Flavored Solar Cell | Room 110
Sign-up required. Space limited to 15. Offered at 10:00 am, 11:00 am, 12:00 pm, 1:00 pm, 2:00 pm, 3:00 pm

HIGGINS LABORATORIES

Keeping Things Cool in Space | Room 248
Tours every hour on the hour. Space limited.

OLIN HALL

A Virtual Tour of the Universe | Room 107
40-minute presentation. Shows for all ages at 10:00 am, 1:00 pm, 3:00 pm
Shows geared for younger ages at 11:00 am, 2:00 pm

WASHBURN SHOPS

Living in Our Materials World | Room 113
Demos at 10:00 am, 10:30 am, 11:00 am, 11:30 am, 12:00 pm

Meet WARNER: WPI’s Tall, Dark, Humanoid Robot

Shows at 15 minutes past each hour, at the garage door between Washburn and the Project Center. WARNER selfies inside between half-past and the top of each hour. Enter at Freeman Plaza entrance.

WPI YOUNGER SCIENTISTS

GATEWAY PARK

Float My Boat
Forensic Chromatography
Helicopters
Life Cycle of a Star

ON THE QUAD

Geodesic Domes
Geometry
Kaleidoscope
Nano Films
Nanotechnology
Pneumatic Machine
Skittles Math
Slime
Space Lander
Stress Balls

Sponsored by WPI Pre-Collegiate Outreach Programs.

Download Our App!



Get detailed information about exhibits and activities, create your schedule, navigate the campus, and more. Search “TouchTomorrow” in the app store.



Connect to the WPI network “TouchTomorrow”



Add a TouchTomorrow filter to your Snapchat

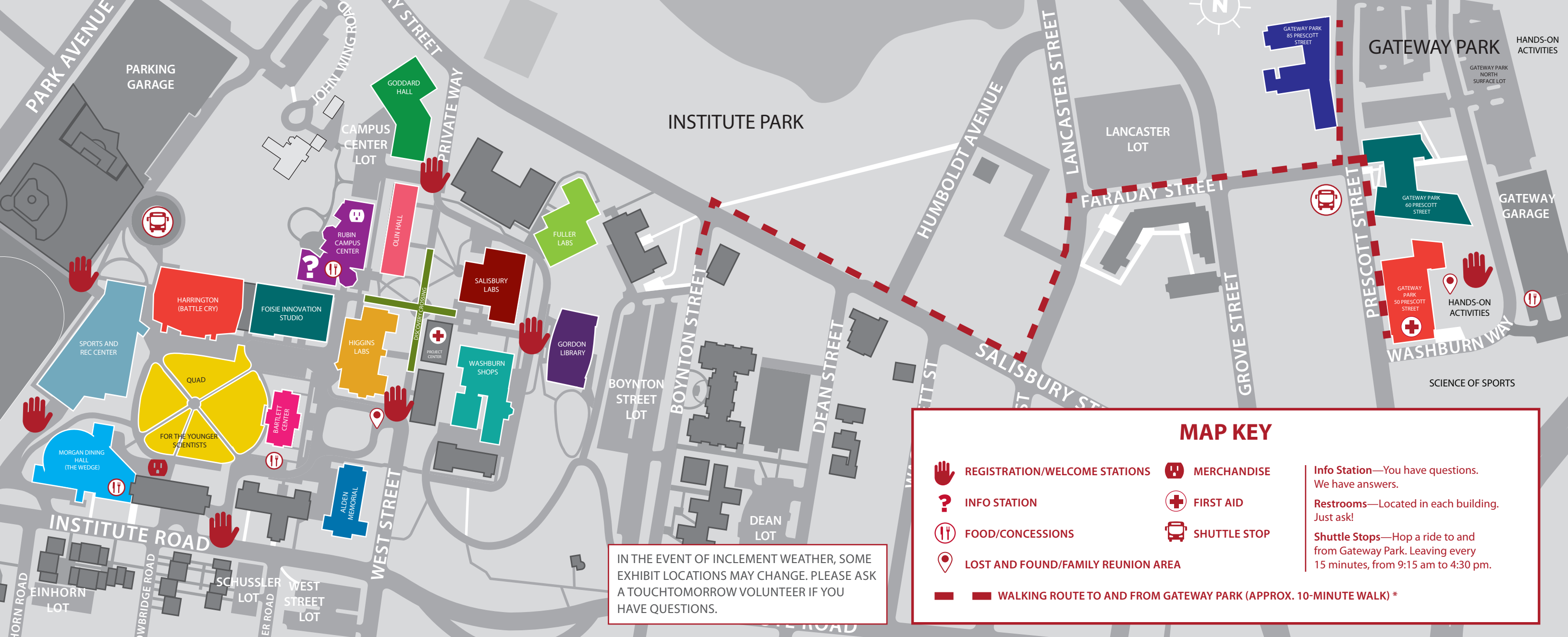


#TOUCHTOMORROW #WPI

WPI works diligently to assure the safety and welfare of our guests. At TouchTomorrow, our security personnel will conduct random checks of camera bags, backpacks, and other large items during the festival. We appreciate your understanding as we undertake this security measure.

THANK YOU TO OUR PARTNERS AND EXHIBITORS





IN THE EVENT OF INCLEMENT WEATHER, SOME EXHIBIT LOCATIONS MAY CHANGE. PLEASE ASK A TOUCHTOMORROW VOLUNTEER IF YOU HAVE QUESTIONS.

MAP KEY

	REGISTRATION/WELCOME STATIONS		MERCHANDISE
	INFO STATION		FIRST AID
	FOOD/CONCESSIONS		SHUTTLE STOP
	LOST AND FOUND/FAMILY REUNION AREA		
	WALKING ROUTE TO AND FROM GATEWAY PARK (APPROX. 10-MINUTE WALK) *		

Info Station—You have questions. We have answers.
Restrooms—Located in each building. Just ask!
Shuttle Stops—Hop a ride to and from Gateway Park. Leaving every 15 minutes, from 9:15 am to 4:30 pm.

TOUCHTOMORROW 2019 FESTIVAL ZONES FULL LIST OF ACTIVITIES AVAILABLE ON THE WEBSITE AND THE APP (SEE REVERSE FOR INSTRUCTIONS ON HOW TO DOWNLOAD THE APP)

WPI EMERGENCY ALERTS
 Visitors to WPI for TouchTomorrow & BattleCry may choose to temporarily register for emergency alerts on their cellphone. Alerts on this system will be for emergencies only — no messaging of general TouchTomorrow & BattleCry information. To register, simply text "TT2019" to 67283. Registration will expire after one day.

SPORTS & REC CENTER – Educational, hands-on, interactive demonstrations and activities for all ages from our generous community partners.

MORGAN DINING HALL – Enjoy lunch in the dining hall!

QUAD – Main Stage (see reverse for schedule), food tent, activities for younger scientists, and more!

BARTLETT CENTER – Learn more about WPI's programs, certificates, and degree offerings through the Offices of Pre-Collegiate Outreach, the Massachusetts Academy for Math and Science, Undergraduate Admissions, Graduate Admissions, Foisie Business School, Corporate and Professional Education, and Career Development Center. Also, learn about best practices for securing your home network.

HARRINGTON AUDITORIUM – Check out BattleCry@WPI! More than 50 high school FIRST teams share their love of robots in a competition that showcases their skills and technical know-how.

FOISIE INNOVATION STUDIO – See robots making robots, learn about tomorrow's smart and connected world, see soft robots in action, learn about cyphers and powerful math, explore design thinking, find out about additive manufacturing and cutting-edge materials, delve into the implications of genetic surveillance, tour the Fitzgerald Prototyping Lab.

GODDARD HALL – Experience hands-on activities in biology, chemistry, biochemistry, and biomedical engineering.

RUBIN CAMPUS CENTER – Check out the Main Stage programming upstairs (see schedule on back). Try an intelligent tutoring system. See a solar house designed by WPI students. Build a spaghetti structure and change the landscape in an augmented reality sandbox. Learn all about sustainability.

OLIN HALL – Take a virtual tour of the universe and get a preview of WPI's new photonics facility (sign up for tours on Discovery Crossing).

HIGGINS LABORATORIES – Learn how engineers keep things cool in space.

ALDEN MEMORIAL – In the Great Hall, WGBH is here with exciting activities from Curious George, PLUM Landing, Peep and the Big Wide World, NOVA, and Design Squad Global! You can also get up close and personal with high school robotics teams! Downstairs, learn about WPI research on music perception and robots.

DISCOVERY CROSSING – Learn about fuel cells; play with a non-Newtonian fluid and learn about research on active materials; experience the physics of motion; meet students who are developing technology and games for learning; make a splash and learn about buoyancy and capillary attraction.

SALISBURY LABS – See how scientists are using technology to help students learn math. Free Workshops for Educators, offered by WPI's STEM Education Center, are also available; registration is required.

WASHBURN SHOPS – Learn about materials properties and experience advanced manufacturing. See WARNER the humanoid robot in action and take a WARNER selfie.

FULLER LABORATORIES – Demo and view computer games and animations designed by students; *Inventing Tomorrow* movie viewings.

GORDON LIBRARY – Learn about astronomy as you create the core and outer crust of your favorite planet and learn planet facts with flip charts and color graffiti boards.

GATEWAY PARK – 50 PRESCOTT STREET – Tour WPI's Fire Protection Lab, the largest research lab in the U.S. Learn how the Worcester Fire Dept. uses technology to keep firefighters safe, learn how smoking/vaping impacts your health with UMass Memorial Health Alliance; be a scientist with MilliporeSigma, and explore plant adaptations for survival with Tower Hill Botanical Garden.

GATEWAY PARK – 50 PRESCOTT STREET LAWNS – Learn about the science of sports with the Worcester Bravehearts, Mass Pirates, Worcester Railers, the PawSox/Worcester Red Sox, and Fun on America. Meet the coach of WPI's football team and a researcher who studies the biomechanics of concussions. Chat with representatives of the Boston Museum of Science, make your own camera-free photograph with DuPont, check out how the city of Worcester uses a rover unit to inspect its sewer lines, and clean up oil spills with the U.S. Coast Guard. Discover more activities for younger scientists.

GATEWAY PARK – 50 PRESCOTT STREET LOT – Grab a snack from the Gateway Park food vendors, see radio station WXLO broadcast live from Touch Tomorrow, and navigate a robot with the MA National Guard.

GATEWAY PARK – 60 PRESCOTT STREET – Meet WPI researchers conducting cutting-edge research in biomedical engineering. Meet and do an activity with a scientist from NASA's Chandra X-Ray Observatory, then take in a short film highlighting the challenges of creating Chandra and the exciting science that has resulted from this endeavor!

GATEWAY PARK – 85 PRESCOTT STREET – Robot central. See surgical and assistive robots, swarm robots, a soft robotic snake, robot teleoperation, bio-inspired and wearable robots, and a robot tour guide.

* Your safety is our primary concern. Please note that the walking route to Gateway Park follows busy public roads adjacent to campus. Please use caution when crossing the street, or use the free shuttle bus provided. Thank you.