

June 9, 2018
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 | Meet Alli Ross

WPI Class of 2020, who competed on the *Jeopardy!* 2018 College Championship.

11:00 am | Mad Science FUN-TASTIC FORCES

Sir Isaac Newton has never been so much fun since an apple hit him on the head! Newton's laws of motion are demonstrated using spinning platforms and more! Thrill as logic is defied with the Mad Science "Bed of Nails." Watch as water pressure and the concept of nucleation create a 10-foot soda fountain!

12:30 pm, 1:15 pm | Animal Adventures

A live experience with exotic animals and adventure guides from Animal Adventures. Hear interesting stories and get up close with animals such as a snake, alligator, skunk, chinchilla, ferret, hedgehog, degus, lizard, and tortoise. Stick around for special appearances by the Kinkajou and Fennec Fox!

2:00 pm | Mad Science SPIN, POP, BOOM!

This show illustrates several very visual scientific effects. Witness experiments that demonstrate the effect of centripetal force. Glass flasks are dropped and "magically" saved by the principle of angular momentum. Chemical reactions create a genie-in-a-bottle and an eruption of foam! Heat and pressure are used to create a rainbow effect in a series of flasks. We discuss sound and resonance and produce cool sounds in our versions of the Didgeridoo and an awesome Mad Science pipe organ!

MAIN STAGE IN THE RUBIN CAMPUS CENTER, ODEUM

10:30 am | Using Artificial Intelligence to aid science: Explorations from Mars to Medicine – Thomas Boucher, PhD

Learn from the experiences of Thomas Boucher, a computer scientist who worked on NASA's *Curiosity* rover team to use lasers and artificial intelligence (AI) to analyze Mars. He is currently using similar AI methods in his research to help create new personalized treatments for cancer.

12:00 pm, 3:00 pm | Cryogenics – Darryl Baynes, PhD

Many people have seen the movie *Terminator II* where the T-1000 terminator becomes frozen in liquid nitrogen. In this "chilling program," we will explore what would happen if the liquid nitrogen fell on us. Enjoy experiments that look at a variety of industrial uses for liquid nitrogen and other cryogenic techniques and examine everyday uses of very cold material. Brought to you by Interactive Science Programs.

1:30 pm | What Does a Scientist Look Like?

– Loree Griffin Burns, PhD, WPI Class of 1991

Drawing on the content of published books, Loree will explore our vision of a scientist, opening young minds to the idea that scientists come in a wide variety of shapes and sizes and sexes (they're not all men with wild Einstein hair!)—they work in a variety of locations (think outside the laboratory box!), and with a surprising variety of tools (plastic ducks, anyone?). By the end of the hour, participants will realize they have all the tools they need to be scientists themselves.

BARTLETT CENTER, PRESENTATION ROOM

12:00 pm, 1:00 pm, 2:00 pm | WGBH Space Events

Join WGBH Director of STEM Education Rachel Connolly for an exciting presentation on upcoming space events to explore with your family. Rachel will cover what is going on with the Earth's moon, stars, planets, meteors and NASA events in the coming year. Take home a Star Map and guide to encourage your family to look up at space!

FULLER LABS, LOWER PERREAULT THEATRE

11:00 am, 12:30, 2:00 pm | Dream Big: Engineering Our World – Jeff Bridges, narrator

Dream Big: Engineering Our World will transform how you think about engineering. From the Great Wall of China and the world's tallest buildings—to underwater robots, solar cars and smart, sustainable cities—*Dream Big* celebrates the human ingenuity behind engineering marvels big and small, and reveals the heart that drives engineers to create better lives for people around the world.

HIGGINS LABS, ROOM 116

10:45, 11:45, 12:45, 1:45, 2:45 | Converge Theatre Project

The Converge Theatre Project is a collaborative and interdisciplinary community composed of artists, scientists, educators, and researchers. Through its commitment to social justice, the project uses the power of theatre in education to create and produce new theatrical works that get youth excited about and confident in their participation in the sciences. 45-minute shows.

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 9, as they have limited availability.

Atwater Kent Laboratories

Can You Solve the Monty Hall Problem? | Newell Hall (Room 116)
Shows as 10, 10:30, 11 am and 1, 2, 2:30 pm

3-D Magic of Biomolecules | Newell Hall (Room 116)

Shows at 12, 3 pm

Discovery Crossing

The Energy Boom: Learn How Fuel Cells Turn Hydrogen and Oxygen into Energy

Interactive demonstrations start every half hour, 10am to 4pm

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, 11:30 am, 12:30, 1:30, 2:30, 3:30 pm

Biomedical Engineering Lab Tours | Assemble in the Lobby

Tours offered continuously between 10 am and 4 pm;

each limited to 10.

Gateway Park – 85 Prescott Street

Autonomous Vehicles, Robotic Nurse, Swarming Robots

45-minute demos begins at 11 am, 1, 3 pm

Goddard Hall

Experience Biochemistry: Glowing Reactions | Room 109

Sign-up required. Space limited to 15. Offered at 11 am, 12, 1, 2, 3 pm

Experience Chemistry: Make a Raspberry-Flavored

Solar Cell | Room 110

Sign-up required. Space limited to 15. Offered at 11 am, 12, 1, 2, 3 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 am, 1, 3 pm

Shows geared to younger ages at 11 am, 12 pm

SALISBURY LABORATORIES

The Choice is Yours

Sign-up required. Space limited to 12.

45-minute programs begin at 10, 11 am, 1, 2, 3 pm

WASHBURN SHOPS

Living in Our Materials World | Room 113

Demos every 15 minutes between 10 am and 12 pm

FOR YOUNGER SCIENTISTS

DISCOVERY CROSSING

Physics in Motion
Bio Inspired Robots
Mining Mars
The Energy Boom

ON THE QUAD

Geodesic Domes
Soda Straw Rockets
Slime
Float My Boat
Arteries
Nanotechnology
Kaleidoscope
Life Cycle of a Star

SPORTS &

REC CENTER

S'mores Packaging
Geometry
Space Lander
Motion Critters

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"



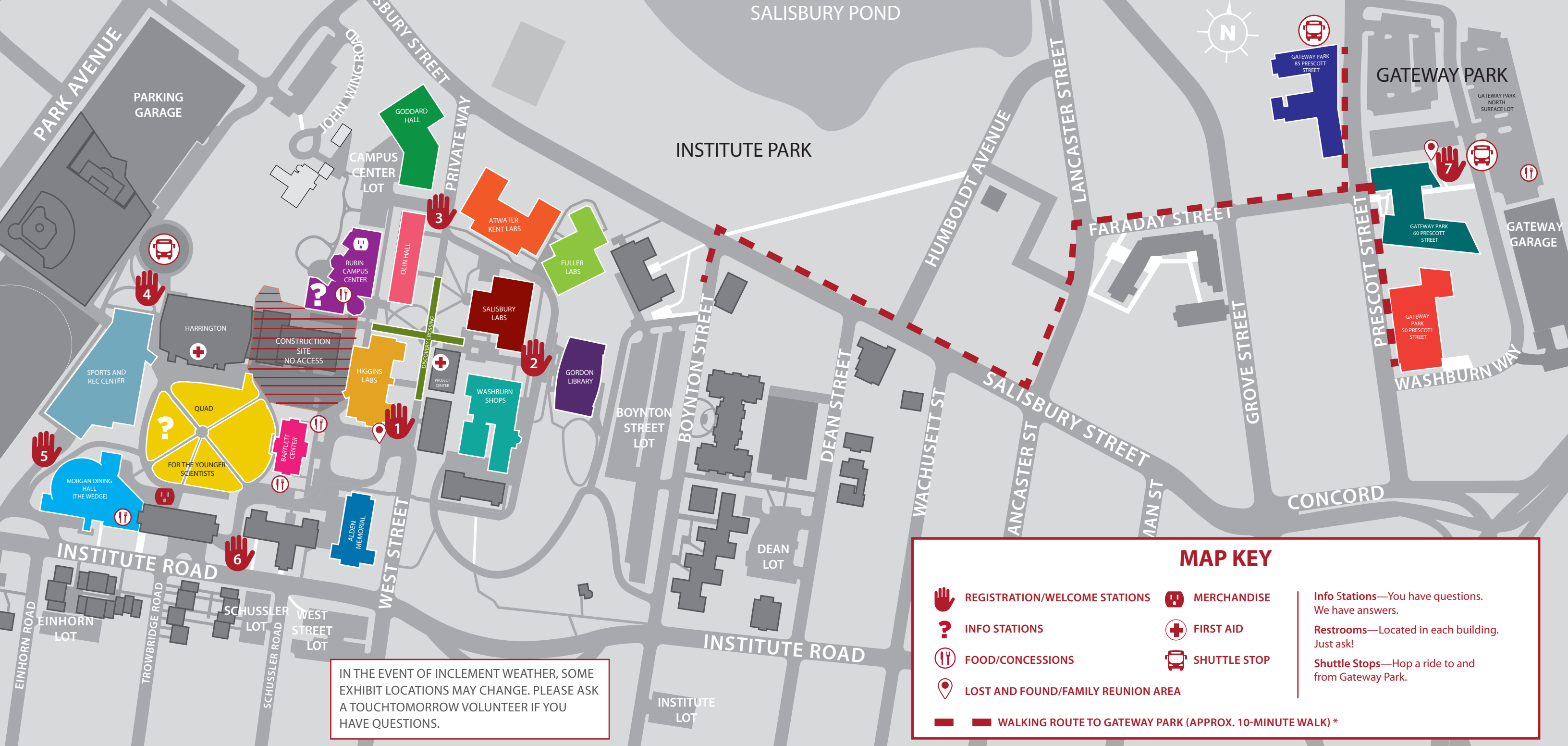
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#TOUCHTOMORROW #WPI

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

Info Stations—You have questions. We have answers.
Restrooms—Located in each building. Just ask!
Shuttle Stops—Hop a ride to and from Gateway Park.

TOUCHTOMORROW 2018 FESTIVAL ZONES

SPORTS & REC CENTER – Educational, hands-on, interactive demonstrations and activities for all ages from WPI Pre-Collegiate Outreach Programs and community partners.

MORGAN DINING HALL – Enjoy lunch in the dining hall!

QUAD – Main Stage (see reverse for schedule), BBQ food tents, activities for younger scientists, see a Mars mining robot, and more!

BARTLETT CENTER – WGBH@TouchTomorrow is here with an exciting presentation on upcoming space events to explore with your family, Design Squad challenges, NOVA, and more! Take home a Star Map and guide to encourage your family to look up at space.

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

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

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.

OLIN HALL – Take a virtual tour of the universe.

HIGGINS LABORATORIES – Learn how engineers keep things cool in space, see the Converge Theater Project.

ALDEN MEMORIAL – Meet local robotics teams and operate their robots.

DISCOVERY CROSSING – See bioinspired robots, learn about fuel cells, experience the physics of motion, and meet WARNER, the humanoid robot.

ATWATER KENT LABORATORIES – Learn about soft robots, biomolecules, cybersecurity, and virtual reality; see robots designed by WPI students.

SALISBURY LABS – See how scientists are using technology to help students learn math and study economic decision making. Educator workshops for pre-registered participants.

WASHBURN SHOPS – Learn about material properties and see advanced manufacturing tools in action, including a 3D printer.

FULLER LABORATORIES – Demo and view computer games and trailers designed by students and try the TouchTomorrow Smartphone Scavenger Hunt; *Dream Big* viewings.

GORDON LIBRARY – Learn about astrogeology as you create the core and outer crust of your favorite planet and learn planet facts with flip charts and color graffiti boards. Grade K–5.

GATEWAY PARK – 50 PRESCOTT STREET – Tour the only state-of-the-art fire research lab located at a university.

GATEWAY PARK – 60 PRESCOTT STREET – Tour WPI's Biomedical Engineering Labs and learn about cutting-edge work in tissue engineering, regenerative medicine and neuroscience.

GATEWAY PARK – 85 PRESCOTT STREET – Robot central. See surgical and assistive robots, swarm robots, a teleoperated robot nurse, and the robotic underpinnings of autonomous vehicles.

GATEWAY PARK – NORTH SURFACE LOT – Engineer a robot and navigate through an obstacle course with MA Army National Guard; experience the life-saving technology firefighters use daily through demonstrations and hands-on activities by the Worcester Fire Department. *Grab a snack at the Gateway Park food trucks, also on North Surface Lot near the shuttle stop!*

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