

Rice/TMC Open House

Tour Schedule

Three tour buses will rotate through three different stops (Rice, TIRR, Methodist). Buses will hold to the following approximate schedule.

4:30 – Depart from DoubleTree Hotel

5:00-5:45 – First tour stop

6:00-6:45 – Second tour stop

7:00-7:45 – Third tour stop

8:00 – Return to DoubleTree Hotel

Tour/Demo Descriptions

Rice University

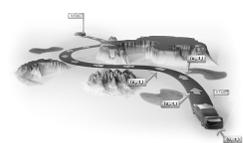
Mechatronics and Haptic Interfaces (MAHI) Lab – See and feel the MAHI EXO-II, a robot designed for rehabilitation of wrist function after stroke, and explore haptic feedback for grasp and lift tasks in smart prosthetic hands. *Located in Ryon Lab, room B10.*



Multi-Robot Systems Lab (MRSL) – The main concern of MRSL is on distributed algorithms for multi-robot systems, with a focus on both algorithm and systems design. Our long-term goals are to understand computation on multi-robot systems in theory and in practice. Especially, we design and build hundreds of low-cost multi-robot system, named "r-one". *Located in Ryon Lab, room B04.*



Kavraki Lab – Sampling-based planning algorithms are effective at planning feasible motions for high-dimensional robotic systems subject to complex constraints. The Open Motion Planning Library is a software library developed by the Kavraki group that contains implementations of many sampling-based algorithms. It is widely used on many different robot hardware platforms. Dr. Mark Moll will demonstrate the capabilities of this library and explain some of the basic ideas behind sampling-based planning. *Located in Ryon Lab, room 112.*



Oshman Engineering Design Kitchen (OEDK) – The OEDK is a space for students to design and prototype solutions to engineering problems. This stop will feature senior design projects related to haptics and robotics, including a device to capture and analyze motion data from cerebral palsy patients and a device to feed back proprioceptive information from a prosthetic gripper via skin stretch.

TIRR-Memorial Hermann Research Center and UT Medical School Dept of Physical Medicine and Rehabilitation

Visit the new TIRR research center and see a motorized stretching device and a neuromodulation equipment demonstration including transcranial magnetic stimulation (TMS) and transcranial direct current stimulation (tDCS).

Methodist Institute for Technology, Innovation, and Education (MITIESM)

The Methodist Institute for Technology, Innovation & Education is a comprehensive, state-of-the-art education and research center at Houston Methodist Hospital. Its educational focus is on helping practicing health care providers acquire new procedural skills and integrate new technologies into their practices. Its research mission is to develop valid measures of procedural competence, advance computer-aided surgery, and foster new medical technologies and techniques.



Finding the Demos

If you get separated from your tour group, use the attached maps to find the tour sites. The following notes will help you find the tours/demos when you arrive on location.

Rice University

Rice demos are located in multiple rooms in two buildings. Feel free to explore the demos at your own pace.

Ryon Lab

Room 112 – Kavraki Lab demo

Room B10 – MAHI Lab and Eagleman Lab demo

Room B04 – Multi-Robot Systems Lab

Room B14 – haptic paddles demo

OEDK

senior design projects

TIRR

Demos are on the third floor of the Research Center. Use the main entrance (from the parking lot, the side opposite Lamar Fleming St.) and take the elevator or stairs up.

Methodist

This is a guided tour. Tours begin at 5:00, 6:00, and 7:00 and last 45 minutes. ****Be on time for this tour, because you will not be able to get upstairs without the tour guide. Tour group meets in the lobby.**

Thanks to our sponsors!



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Tour Locations



Red: tour location

Blue: tour bus stop

Yellow: light rail stop (see next page for directions back to the DoubleTree)

Interactive map available at <http://tinyurl.com/kv3b5qc> or linked from the open house website at <http://2014.hapticssymposium.org/conference/ricetmc-open-house>.

Returning the the DoubleTree Hotel via Light Rail

The tour buses will return to the DoubleTree at approximately 8:00 pm. If you wish to return at a different time, we recommend using the Light Rail.

Take the light rail northbound to Main Street Square Station. Follow the walking map below.

Light rail fare is \$2, payable by cash or credit card at the station.



From Main Street Square Station:
Walk southwest towards McKinney St.
Turn right on McKinney St.
Turn left on Smith St.
Turn right on Dallas St.
DoubleTree Hotel will be on the left.