



# TOYOTA Production Systems Laboratory

Industrial and Systems  
Engineering

Fall 2010.

## TPS Lab has a Busy and Successful Spring and Summer

This 5th edition of our newsletter summarizes activities and events from the past six months. There have been a number of exciting developments as we continue our journey toward being a leading provider of state of the art production systems concepts.

### Staffing

Ainoa Mazeika moved on to new challenges after 2 years of excellent work in the lab. Manuel Sosa is starting his 2nd year, and is joined by Abbey Donner, Niranjana Damle, and Janel Cardona.

### Toyota Visit

Andres Carrano, John Kaemmerlen, Jacquie Mozrall, and Manuel Sosa visited Toyota for two days in July. They spent time at the Georgetown, Kentucky plant (TMMK), TEMA, and the training center (NAPSC). The visit included experiencing training in the Powertrain building and the NAPSC training cen-



ter, which were eye opening in terms of the attention paid by Toyota to safety and thoroughly learning key skills. Also, in the month of June, the TPS lab hosted 18 visitors from Toyota while they were in Rochester for the Mini-Baja race.

### Awards

The TPS lab was awarded a significant grant from the Toy-

ota Foundation USA for a program intended to significantly enhance RIT's efforts in enabling better K-12 education in math and science. We also received a Provost Learning Innovation Grant, which is being used to develop exercises in the lab for deaf and hard-of-hearing students enrolled in the "Engineering Fundamentals" course in National Technical Institute for the Deaf at RIT.

## Lab Capabilities and Operations

### New Assemblies for Labs

We have received more subassemblies from Toyota which we are using to develop new lab activities, and to present a broader variety of parts for students to use in existing labs. One of the assemblies is a lid assembly (see photo) which we have successfully "beta tested" in lab exercises

we performed with the incoming freshmen women engineering students. We have also been provided subassemblies that are a portion of cooling systems.

### International Visitors

We hosted 14 students from the Korea University of Technology and Education who

were at RIT in a 2 week internship program. They spent a full day in the lab learning about production systems and lean principles and tools as a part of this experience.

### Lab Operations

We continue to improve our use of A3 thinking to better plan and execute 5S practices

and continuous improvement activities. We kaizen'd our 5S auditing process (twice), set up a shared folder to collect our standard work documents for labs, tours, and summer camps, are developing a training manual for students new to the lab assistant role, and are planning a fixture standardization project.

## NEWS

- THE LAB HOSTED 6 WOMEN IN ENGINEERING SUMMER CAMPS IN JULY, STUDENTS FROM MARSHALL HS, AND STUDENTS FROM THE KOREA UNIVERSITY OF TECHNOLOGY AND EDUCATION
- THE LAB ALSO HOSTED 22 FACULTY FROM LATIN AMERICA AND 18 VISITORS FROM TOYOTA
- NEW WEBSITE ADDRESS:  
[www.rit.edu/ToyotaLab](http://www.rit.edu/ToyotaLab)

## QUICK FACTS

NUMBER OF GIRLS (GRADES 5-10) THAT PARTICIPATED IN SUMMER 2010 CAMPS	<b>47</b>
NUMBER OF INCOMING FRESHMAN WOMEN THAT PARTICIPATED IN "WE'RE IN MOTION" TPS LAB EXERCISES	<b>30</b>
NUMBER OF OTHER HIGH SCHOOL AND COLLEGE STUDENTS THAT PARTICIPATED IN LAB PROGRAMS	<b>61</b>