



# TOYOTA Production Systems Laboratory

Industrial and Systems  
Engineering

Fall 2008.

## First Anniversary of the Lab



Since its inception in March 2007, there have been a number of developments in the lab. Some are summarized in this newsletter.

The staff of the Lab visited several Toyota plants in Kentucky and Indiana, as part of during two different trips. They also visited some suppliers and received training on TPS fundamentals and problem solving at TEMA.

Two new courses that make extensive use of the facilities

were developed and offered in this year. The new "Design and Analysis of Production Systems" is mandatory for all undergraduate students, while "Contemporary Production Systems" is a graduate elective. Both of these courses emphasize TPS and Lean concepts, such as: line balancing, factory physics, problem solving, production leveling, jidoka, kanbans, pull, and standard work. In addition, two new courses are in the works. A 1-credit hour

## Toyota continues to hire ISE Students.

With its continuing presence in the RIT campus, Toyota Motor Manufacturing has been able to attract some of the best students from the ISE department. This includes Carlos Briceno (who was part of the Lab staff since its in-

ception) and Julie Marinello who are now part of the EIT training program at Toyota. Also, some of the students who took classes in the lab have been interacting with Toyota. This includes the following coop students: Erika

Lean Practicum will be open to the entire RIT community, and an advanced course ("Production Systems Management"), focused on Heijunka and Production Control, will be offered to graduate students. During the upcoming year, some of the efforts will be focused on developing Heijunka-based setups and exercises

Finally, John Kaemmerlen joined the Toyota Lab staff after more than 30 years with Kodak. He brings extensive experience with TPS and lean. The current staff members are: Andres Carrano, Jacquie Mozrall, and John Kaemmerlen (faculty), as well as the following students: Ainoa Mazeika, Keshav Simhadri, and Rohita Kotagiri.

We hope that you find this bi-annual update useful and interesting. Please let us know your comments or questions by emailing us at the address below.

Soltis, Brian Lindquist, Eric Albanese, Barrett Zeinfeld, Jimmy Ichihana, Yi Xie, Julie Coggshall and Phillip Davenport. They join a strong number of RIT alumni who are already working at Toyota.

## NEWS

- THE LAB HOSTED WOMEN IN ENGINEERING SUMMER CAMPS IN JULY. THE GIRLS (GRADES 4-10) RANKED THE ASSEMBLY EXERCISES IN THE LAB AS THE "TOP ACTIVITY" (OVER A CHOICE OF 20 ACTIVITIES).
- A SHORT VIDEO THAT SHOWS STUDENTS ENGAGED IN LAB ACTIVITIES WAS DEVELOPED. THIS VIDEO CAN BE SEEN AT: [WWW.RIT.EDU/KGCOE/ISE](http://WWW.RIT.EDU/KGCOE/ISE).
- TOYOTA SPONSORED THE 2008 "WE'RE IN MOTION" PROGRAM FOR INCOMING FRESHMAN WOMEN WITH EVENTS IN THE LAB.

## QUICK FACTS

NUMBER OF GIRLS (GRADES 4-10) THAT PARTICIPATED IN SUMMER CAMPS.	<b>78</b>
NUMBER OF UNDERGRADUATE AND GRADUATE STUDENTS THAT TOOK CREDIT COURSES IN THE LAB	<b>158</b>
NUMBER OF INCOMING FRESHMAN WOMEN THAT PARTICIPATED IN THE TOYOTA-SPONSORED "WE'RE IN MOTION PROGRAM"	<b>72</b>
NUMBER OF COURSES THAT MAKE SIGNIFICANT USE OF THE LAB	<b>3</b>
NUMBER OF INTERNATIONAL STUDENTS (TURKEY AND DOMINICAN REPUBLIC) THAT PARTICIPATED IN LAB ACTIVITIES	<b>27</b>