

## **CE 890 Graduate Seminar**

**SPEAKER:** Yuki Mamiya (Dr. Esmaeily's Distance Learning M.S. student)

**TOPIC:** "Motor Vehicle Crash Accident and Trends in the USA and Japan by Teenage Drivers"

**DATE:** September 2, 2009

**TIME:** 4:00 p.m. (refreshments at 3:45 p.m.)

**PLACE:** 2144 Fiedler Hall

### **ABSTRACT**

Teen Drivers are always the highest risk factor upon studying the traffic accident. This is a common problem in the world. American and Japanese cars have dominated and lead the world in the car industry for a long time. Their cars are improved every single year and make people comfortable and safe to ride in. With developing computer technology over the last decade, the remarkable progress has been made and cars have become more reliable and safer more than ever, however, the number of car accidents hasn't decreased in both countries yet. Especially, teenage drivers have the highest crash risk of any group. Why do they always have the highest crash risk of any age group? In order to review of these trends and risk factors for young drivers in both countries, it will be demonstrated if there are any common characteristic in the behavior of the youngsters.

Fatality Analysis Reporting System (FARS) data was used for USA and Institute for Traffic Research and Data Analysis (ITARDA) data was used for Japan. Drivers were divided into 2 age strata: 16 - 24 years (USA) and 18 - 24 years (Japan). Comparisons were made based on rates of driver involvement in fatal motor vehicle crash death, rate of wearing seat belt, the percentage of driver involvement in fatal motor vehicle by time and weekday and the percentage of fatally injured passenger vehicle teen drivers with BACs > 0.08.