

# SCIENCE SEMINAR

FRIDAY, FEBRUARY 6

KNOTT HALL B01

3PM

## SKYNET AT LOYOLA: ENABLING ROBOTS TO TAKE OUR JOBS

ROGER EASTMAN  
LOYOLA COLLEGE IN MARYLAND

DR. EASTMAN WILL TALK ABOUT HIS RECENT RESEARCH AT THE NATIONAL INSTITUTES OF STANDARDS AND TECHNOLOGY (NIST) FOR THE ESTABLISHMENT OF STANDARDS FOR ROBOTS IN MANUFACTURING. THE OBJECTIVE OF THIS WORK IS TO GIVE MANUFACTURERS LIKE FORD AND GM TECHNIQUES TO VALIDATE ROBOTS FOR ON-THE-FLY ASSEMBLY, WHERE ROBOTS WOULD BE ABLE TO GRASP AND MANIPULATE PARTS ON THE ASSEMBLY LINE WHILE STILL IN MOTION. VIRTUALLY ALL ROBOT INSTALLATIONS IN GENERAL MANUFACTURING ASSEMBLY CURRENTLY REQUIRE PARTS AND ASSEMBLIES TO COME TO A HALT BEFORE BEING MANIPULATED, AND DYNAMIC ON-THE-FLY ASSEMBLY WOULD ENABLE LESS EXPENSIVE, MORE FLEXIBLE ROBOTIC WORK CELLS. CLOSER TO HOME, DR. EASTMAN WILL ALSO TALK ABOUT THE NEW ROBOT LAB AT LOYOLA AND VARIOUS STUDENT PROJECTS USING THE EQUIPMENT.

**REFRESHMENTS WILL BE SERVED**