



*You are cordially invited to participate in a  
National Institute of Standards and Technology Workshop*



## **Dynamic Measurement and Control for Automated Manufacturing**

**Date:** October 10 – 11, 2007 (1 ½ days, second day ends before noon)

**Place:** Loyola College Graduate Center, Columbia, MD  
Directions can be found at <http://www.loyola.edu/columbia>

**Hotels:** Both within walking distance and expected to have discount rates.  
Courtyard by Marriott 410-290-0002  
Extended Stay Suites 410-872-2994

**Cost:** \$50, payable to Loyola College in Maryland

**Contacts:** For more information please contact either:  
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**Attendees:** Manufacturing industry users and potential users of automated equipment; sensor, robot arm and automated guided vehicle system vendors; university and federal government controls experts.

### **Workshop Goals:**



As part of the Manufacturing Engineering Laboratory's goal to develop a general picture of requirements for advanced automation in manufacturing, NIST is holding this workshop to collect community input on requirements for the operation of next generation manufacturing robots, autonomously guided vehicles and intelligent assist devices in dynamic, changing environments. *Specific topics to be considered are perception needs for dynamic visual servoing in autonomous assembly and requirements for the safe and effective operation of robot arms and automated guided vehicles (AGV's) in dynamic environments.*

The workshop will include discussions to develop requirements on the following:

- Dynamic measurements on the shop floor for control of continuous automation.
- Perception needs for next generation robots (NGR) with consideration for human-robot cooperation, safety and flexible operation.
- Safe and effective AGV operation on the shop floor.
- Other topics attendees may deem important to advancing these technologies.



We hope you can join us for this *exciting* workshop where you have input to future federal government manufacturing research towards industry use. Additional details will be sent in future emails. Plan to participate on **October 10 and 11** and stay tuned for more information.