

Meeting #2

IEEE Robotics and Automation Society Chapter (Washington Section)

October 04, 2007

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&

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Outline

- Joint Chapter
- RAS Chapter Website
- Office Bearers: Treasurer
- Events
- Useful IEEE Info.
- FIRST (Janet Lathan)
- **Guest Speaker Series Kickoff @ 7:00 PM**
- *Please add name, email, and signature on the signup sheet*



Joint Chapters with Other Sections

- **Joint RAS Chapter**

NoVa (http://ewh.ieee.org/r2/no_virginia/)

Chuck Sisung (NOVA Chair)

&

Baltimore (<http://www.ewh.ieee.org/r2/baltimore/>)

Dr. William Semancik (Baltimore Chair)



Chapter Website <http://ewh.ieee.org/r2/washsec/ras>



The screenshot shows the homepage of the IEEE Robotics & Automation Society Washington D.C. Chapter. The header features the IEEE RAS logo on the left, the text "IEEE ROBOTICS & AUTOMATION SOCIETY" in the center, and "Washington D.C. Chapter" on the right. Below the header is a navigation bar with buttons for HOME, NEWS, PEOPLE, CALENDAR, ACTIVITIES, PUBLICATIONS, CONTACT US, and JOIN US. The main content area has a red heading "The IEEE Robotics and Automation Society" followed by two paragraphs of text. The first paragraph defines the society's interests in applied and theoretical issues in robotics and automation. The second paragraph describes the scope of robotics and automation, including applications in medicine, defense, space, and underwater exploration. Below the text is a large 3D graphic of the IEEE RAS logo. At the bottom, there is a copyright notice: "© Copyright 2007. Powered by: IEEE RAS Washington D.C. Chapter".

IEEE ROBOTICS & AUTOMATION SOCIETY
Washington D.C. Chapter

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The IEEE Robotics and Automation Society

The Society is interested in both applied and theoretical issues in robotics and automation. Robotics is here defined to include intelligent machines and systems used, for example, in space exploration, human services, or manufacturing; whereas automation includes the use of automated methods in various applications, for example, factory, office, home, laboratory automation, or transportation systems to improve performance and productivity.

Robotics and Automation involves designing and implementing intelligent machines which can do work too dirty, too dangerous, too precise or too tedious for humans. It also pushes the boundary on the level of intelligence and capability for many forms of autonomous, semi-autonomous and teleoperated machines. Intelligent machines have applications in medicine, defense, space and underwater exploration, service industries, disaster relief, manufacturing and assembly and entertainment.

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Office Bearers

- **Treasurer (Dr. Jason Gorman)**
 - Maintain finances via *IEEE Concentration Banking*
 - *Concentration Banking* program offers IEEE Geographic Units and Conferences a bank account with unlimited check writing privileges, which pays a higher rate of interest than traditional business checking accounts
 - <http://www.ieee.org/portal/pages/services/financial/treasury/concentration.html/>
- **Newsletter Editor (TBD)**



Events

- **RAS New Initiatives Competition Funded!**
 - Starting this year (deadline was June 1st); *initiative has to be completed and the funds spent in CY2007*
 - *Advancing Robotic Research through an Open Source High-Fidelity Simulation Framework and Competition (Pls: Stephen Balakirsky, Raj Madhavan, Chris Scrapper)*
 - Manufacturing Automation Regional Competition (*one of the 10 proposals that was funded out of 33 submitted*)
- 7 teams have been selected
 - Morgan State, GWU, UM Eastern Shore, GMU, Hood College
 - Faculty: 7 & Students: 11
 - Workshop to be held at NIST Oct. 18th & 19th
- ICRA'08 Robot Challenge (Demo) & ICRA'09 Competition



Events

- **Courses, Tutorials, Workshops**
 - National Tournament of the Science Olympiad
<http://scienceolympiad.gwu.edu/> May 30-31, 2008
Middle and High School students across the United States
15-person team competition covering biology, chemistry, physics, robotics, engineering,
Contact: Prof. Edward A. Caress caressea@gwu.edu/703-256-3665
 - IROS'07 Full-day Workshop on *Performance Evaluation and Benchmarking for Intelligent Robots and Systems*
<http://www.crim.ncsu.edu/iros2007/> November 2nd, San Diego, CA
Organizers:
Angel del Pobil, UJI (Spain),
Raj Madhavan, ORNL/NIST &
Elena Messina, NIST
 - Performance Metrics for Intelligent Systems (PerMIS'07)
IEEE WS-RASC Technical Co-sponsorship
http://www.isd.mel.nist.gov/PerMIS_2007/ August 28-30, Gaithersburg, MD
General Chair: Elena Messina, NIST
Program Chair: Raj Madhavan, ORNL/NIST



Useful IEEE Info.

- **IEEE Expert Now**

- *IEEE Expert Now selects the best IEEE educational courses and tutorials from conferences and workshops around the world. Delivered in a series of engaging and highly interactive, one-hour online learning courses, these courses have been developed by recognized experts in a wide range of engineering and research technologies.*
- http://www.ieee.org/web/education/Expert_Now_IEEE/
- SLAM--Simultaneous Localization and Mapping
Christensen, Henrik

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- **IEEE TV**

- <http://www.ieee.org/web/membership/IEEEtv/about.html>



Community Outreach

- **Judge for Robotics Competitions**
 - Montgomery County Public Schools Career, Engineering, and Technology Student Challenge
 - FIRST (For Inspiration and Recognition of Science and Technology) Robotics Competition
www.usfirst.org/robotics/ Contact Janet Rhodes Lathan
FIRST Senior Mentor-Washington, DC Metro Area
janetlathan@comcast.net
 - LEGO League Robotics Competition
- **IEEE Washington DC High School Clubs**
 - McKinley Tech. & Roosevelt Washington DC: Mentors
 - Contact Debi Siering Vice-Chair EMBS siering@ieee.org



Discussion

- Questions/Suggestions
- ...

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- Guest Speaker Series Kickoff
 - Prof. Henrik Christensen

