**Minutes: 6/21/2011**

There were 5 IEEE members and 8 guests present

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| George Schott | RAS Chairman | Sean Denny | RAS Secretary |
| Jim Melton | RAS | Ken Fiallos | RAS Vice Chairman |
| Yun Lin | Guest Speaker | William Pence | Guest Speaker |
| Shelley Kappler | Guest | Juanita Andrews | Guest |
| Roberto Guerra | Guest | Steve Kowski | IEEE |
| Stan Kowski | Guest | Jason Doolittle | Guest |
| Indika Pathirage | Guest |   |   |

**IEEE ROBOTICS AND AUTOMATION SOCIETY (RAS)**

Location: DeVry University at 5540 W. Executive Drive, Tampa, FL 33609
Room: 210
Date: June 21, 2011
Time: 6:30pm to 8:30pm

\* The June 2011 Meeting of the RAS Society was called by Chairman George Schott.  It was a discussion of Robotics between 6:30 pm and 8:30 pm.  George reminded that participants need to RSVP via an email to the Chairman.

\* George Schott mentioned one correction to the May Minutes: 7 IEEE members and 6 guests present. Jim Melton motioned to accept the minutes with the correction, seconded by Steve Kowski.

\* Treasurer Reijo Hiltunen was not present therefore no report this month.

\* Several members were congratulated for the following reasons: Jim Melton just joined the IEEE-RAS Society Standards Committee; Ken Fiallos volunteered at Seminole High for a Solar Sprint Demonstration; George Schott judged a robotics fair at Middleton High School.

The following are the main topics from that meeting:

\* First order of business was to invite two doctoral candidates from USF at our next meeting: “Motion and Force Learning from Demonstration by Yun Lin” and “Autonomous Mobility and Manipulation of a 9-DoF WMRA by William Pence.”

\* First Speaker, Yun Lin discussed “A Force Control System for Fingernail Imaging Training” which was a High Dimensional Math application.A robot records the force, distance, position, and fingernail color of a human hand picking up an object and then mimics the actions.

\* Second Speaker, William Pence gave a presentation on “Autonomous Mobility and Manipulation of a 9-DoF WMRA.They work with the VA hospital in Tampa.A robotic arm attached to a wheelchair, is programed to use color to pick up objects through motion analysis.There is one systemboard with 16 bit serial interfaces on a Windows XP system.They used Visual C++ to precompute the trajectories.He mentioned they go through 2 to 3,000 lines of code.He offered the possibility of touring their student lab in the future.

\* Vice Chairman Ken Fiallos spoke on the ElectrathonOfTampaBay.ORG’s event at the FL State Fairgrounds in Tampa the Green STEM Electrathon Festival event on May 21st.They had many teams and had news coverage.

\* Steve Nies was not present; therefore no report.

\* Under Old Business, George Schott discussed the RAS grant of $2,000 for next year.We need to fill out the application, bid for the request, and allot $500 per Lego Robotics teams.We can draw up a proposal to create a STEM Robotics club and pitch it to the School Boards.

\* Under New Business, Shelley Kappeler, FIRST LEGO LEAGUE Coach invited everyone to Lomax School in Tampa at 4200 N. 26th Street on October 1, 2011.She mentioned that High Technec is releasing sensors for FIRST Robotics to track images using a camera.

\* Sean Denny invited anyone to volunteer for the Professional Study Days in August to help out IEEE Engineer Ralph Painter.Only Hillsborough and Pinellas have scheduled events.Pinellas will be August 16 at Seminole High School.

\* Jim Melton explained the Information on the IEEE RAS Glossary/Ontology for Robotics Working Group Standards Committee is:

*The objective of the working group is to identify, develop, and document salient terms and their definition so that they can serve as a common reference for the robotics and automation community.*

*Our goal for this working group is to take a broad look at the knowledge representations and terminology that are out there and leverage the group's expertise in developing a standard that will ensuring common understanding among members of the community. This will allow for timely decision-making, minimizes potential confusion, and facilitate more efficient data integration and transfer of information among systems.*

The meeting dispersed around 8:30pm with a motion to adjourn by Ken Fiallos and Seconded by Jim Melton.  The next meeting is July 19, 2011 at 6:30pm.

Respectfully submitted by

Sean Denny,

Tampa Bay IEEE RAS Chapter Secretary

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