ORS Spring Kickoff Event— January 15, 2008

**What:** House Warming Party (Okay, Office Warming!!)

**When:** Tuesday, January 15, 2008
11am-2pm (Stop by anytime)

**Where:** Your new ORS meeting space!!! Van Leer 472

Come join us as we celebrate the new ORS meeting space!! We will have juice and doughnuts on Tuesday in the new space, Van Leer 472, which is part of the ORS office suite. Please stop by to check out the space, say “hello” for the New Year, and grab a snack. With a few strategic negotiations from Jill, we have secured a quaint meeting space that is available for use by all ORS participants. This space can be used to have ORS group meetings, study groups, or just as a place to pass time between classes. We are excited about this addition to the program and hope it will aid in maintaining support to the ORS community.

**ORS Website Coming Soon!!**

After much anticipation, the ORS website is nearing completion. The purpose of the website is to give an overview of the ORS program, highlight the current and past ORS participants, give information on ORS activities, and give current participants access to a centralized database of important ORS documents.

In our efforts to finalize the website and offer complete up to date information, we need your help!! If you have not already responded to the requests for the information below, please do so ASAP:

- Headshot photo (Please email Adrianne a headshot photo or stop by her office to have one taken)
- Any personal or research awards, honors, or recognition (email these to Adrianne)
- Photos from any ORS function from this year or previous years (email these to Adrianne)

We are excited about the website and would like for it to accurately showcase our students!!

**Welcome New OSP Participants!!**

This Spring semester we are excited to have two returning scholars from the 06-07 program year to the ORS Program!!

**Returning Scholars**
Ashley Gray
Arpon Gosh
Announcements and Reminders

ORS Group Monthly Lunches
ORS Mentor, please make sure to take advantage of the monetary allowance for monthly group lunches. Take your scholars to lunch each month. These lunches allow groups a chance to interact outside of the research environment and get a break from the hectic Georgia Tech grind.

Paid Internship Opportunity (JUNIORS and SENIORS):
The American Society for Engineering Education (ASEE) is administering The Naval Research Enterprise Intern Program (NREIP) sponsored by the Office of Naval Research (ONR).

NREIP is a ten week summer research opportunity for undergraduate Juniors & Seniors, and Graduate students, under the guidance of a mentor, at a participating Navy Laboratory (list of participating universities is available at http://www.asee.org/nreip). The stipend amounts for the program are $5,500 for undergraduate students and $6,500 for graduate students. U.S. citizenship required; Permanent residents accepted at certain labs.

Application Deadline: January 14, 2008
To learn more about the program, you can visit http://www.asee.org/nreip. Direct any questions to nreip@asee.org.

Freshman Progress Meetings

• Over the next few weeks, we will be having individual meetings with the freshman scholars in the ORS Program. The purpose of the meetings will be to discuss issues and accomplishments from the Fall semester and to get up to speed for the Spring semester.

• Due to the overwhelming number of freshmen taking ECE 2030 and CS 1371, ORS will begin to offer weekly study group sessions for these courses. Be on the lookout for and update on dates and times for these sessions.

ORS Timesheet Submission Update

It is time to start the Spring semester off right by making the New Year’s resolution to turn in timesheets at each pay period! Scholars, make sure to turn in completed timesheets signed by both you and your mentor at each pay period. If you have not worked any hours during the pay period, you must notify Adrianne and explain why no work has been done.

January 16, 2008
January 30, 2008
February 13, 2008
February 27, 2008
March 12, 2008
March 26, 2008
April 9, 2008
April 23, 2008
May 7, 2008
May 21, 2008

Please remember to drop off timesheets to Adrianne on each timesheet due date. You may also leave them in her ECE mailbox.

"The aim of education should be to teach us rather how to think, than what to think - rather to improve our minds, so as to enable us to think for ourselves, than to load the memory with thoughts of other men."

-- Bill Beattie
I am a 4th year Electrical Engineering student at Georgia Tech who transferred from Savannah State this semester. I hope to graduate and have my undergraduate degree by May 2009. I am from Eastman, a small town in middle GA. I am a recovering athlete who loves to play sports, games, and relax with my friends. I am a very social and approachable person who enjoys talking to and getting to know new people.

The research that I am doing focuses on frequency measurements using analog filters and modulation techniques. The frequency of a voltage/current transient has to be determined. Techniques like FFT that require the sampling of the signal are not applicable since the frequency of the signal is too high. The objective of this project is to find a strategy to measure the frequency and/or the frequency spectrum of the transient using analog filters.

Different techniques, that are either found in literature or developed within this project, have to be analyzed, compared and tested.

I previously did research with Georgia Tech in Savannah, GA with Dr. Ashraf Saad. We worked with Lego’s Mindstorm to build robots and see how they interacted with each other. When I grow up I hope to have a decent job, house and family that I love and care for.

**Interesting Fact:** Charles Goolsby was president of his scholarship organization at Savannah State University. The organization was called MAGEC-STEM which stands for Minority Access to Graduate Education and Careers in Science, Technology, Engineering and Mathematics.

### Upcoming Events:

- A Glimpse into Industry: Special Guest Elise Wilder of Rockwell Collins, Inc.
- Graduate Student Panel
- Community Service Activity
- Creating a Scientific Research Poster Workshop: Conducted by Christina Bourgeois
- ECE Fair and Poster Competition
  - Abstract due date: March 24, 2008
  - Competition Date: April 11, 2008
- ORS Poster Competition

### Program Sponsors

The Opportunity Research Scholars Program would not be possible without the generous support of our sponsors. This year we are pleased to have the Intel Corporation returning as a major sponsor and we are excited to have additional research groups supported by our new sponsor, Rockwell Collins, Inc. We are also pleased to have additional support from Dr. Greg Durgan’s and Ron Harley’s National Science Foundation grant. Along with the support of our outside sponsors, we depend on the assistance of Georgia Tech ECE staff to keep the OSP running effectively.