

# Event Diversity for Local IEEE Activities

# Benefits of Event Diversity

- Engage members and non-members who wouldn't otherwise be engaged
- Present an IEEE that addresses a more diverse range of professional and non-professional needs for members
- Create opportunities to serve the profession and broader community

# Atlanta Section Examples (Monthly Events)

To: <bill.marshall@gtri.gatech.edu>

Reply-To: <secretary@ieee-atlanta.org>

**Upcoming IEEE Atlanta Section Meetings**

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**Volunteers Needed!**

We will be holding **Family Science Nights** at two different schools in November.

Nov 7, 5:30 PM: **Hamilton E. Holmes Elementary** School, 2301 Connally Dr, East Point, GA 30344

Nov 14, 6:30 PM: **Evansdale Elementary**, 2914 Evans Woods Dr, Doraville, GA 30340

To volunteer for either event contact Melody Richardson at Richardson.Melody@gmail.com

**Grady High School** is looking for **mentors** for their male students in the **robotics club**. (WTS Transportation YOU is currently providing women mentors to the girls.) To volunteer contact Amy Diaz at amy.diaz@jacobs.com

The organizing committee for **IEEE GLOBECOM needs volunteers** to help during the conference to be held in Atlanta, GA from Dec 8 - 13 2013. Volunteers get a free extra day of conference attendance for every day of help they give to the IEEE. To volunteer contact Francesco Amato at f.amato@gatech.edu

**Computer Society**

November 6, 6:00 PM

**Distinguished Lecturer:** Supervisory Control and Data Acquisition (SCADA) Security and Biometrics related to Access Control

More information: [https://meetings.vtools.ieee.org/meeting\\_view/list\\_meeting/19541](https://meetings.vtools.ieee.org/meeting_view/list_meeting/19541)

**Women in Engineering**

November 7, 6:30 PM

**Fall Mixer: Amy Sharma shares her experiences (good, bad and funny) during a year in Australia with her husband and baby daughter**

More information: [https://meetings.vtools.ieee.org/meeting\\_view/list\\_meeting/20377](https://meetings.vtools.ieee.org/meeting_view/list_meeting/20377)

**Communications Society**

November 7, 6:00 PM

What can physical-layer security do for you?

More information: [https://meetings.vtools.ieee.org/meeting\\_view/list\\_meeting/20839](https://meetings.vtools.ieee.org/meeting_view/list_meeting/20839)

**Power and Energy Society**

November 12, 12:00 PM

Use of Online Frequency Response Analysis Systems in the Monitoring and Evaluation of Substation Transformers and

To: <bill.marshall@gtri.gatech.edu>

Reply-To: <secretary@ieee-atlanta.org>

Upcoming IEEE Atlanta Section Meetings

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## Volunteers Needed!

The section needs people to **staff the IEEE tables during GLOBECOM** to be held at the Atlanta Hilton and Towers from Dec 8 - 13 2013. To volunteer, contact Jeremy Reed at [Jeremy.Reed@gtri.gatech.edu](mailto:Jeremy.Reed@gtri.gatech.edu).

Our next **Family Science Night (FSN)** will be in Roswell at **Mimosa elementary school** on January 23, 2014. To volunteer, contact Melody Richardson at [Richardson.Melody@gmail.com](mailto:Richardson.Melody@gmail.com).

**Future City needs judges** to review papers at home in December and to judge at the Competition at **Southern Polytechnic State University** on January 25. For more information and to register: <http://futurecity.org/engineers>

Signal Processing Society

December 3, 12:00 PM

Adversarial Signal Processing

More information: [https://meetings.vtools.ieee.org/meeting\\_view/list\\_meeting/22213](https://meetings.vtools.ieee.org/meeting_view/list_meeting/22213)

Power Electronics Society

December 4, 11:40 AM

On-Load Tap-Changer (OLTC) for Power Transformers

More information: [https://meetings.vtools.ieee.org/meeting\\_view/list\\_meeting/22209](https://meetings.vtools.ieee.org/meeting_view/list_meeting/22209)

Circuits and Systems Society/Solid-State Circuits Society

December 12, 1:30 PM

60GHz CMOS Transceiver for Ultra High Speed Wireless Communication

To: &lt;bill.marshall@gtri.gatech.edu&gt;

Reply-To: &lt;no\_reply\_enotice@ieee.org&gt;

Upcoming IEEE Atlanta Section Meetings

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## Volunteers Needed!

Our next **Family Science Night (FSN)** will be in Roswell at Mimosa elementary school on January 23, 2014. Both guest science instructors and session assistants are needed for the event. Family science nights bring families together to learn about all aspects of science. Whether it is physical science, engineering, or information technology, family science nights bring in **guest science instructors to lead families in scientific discovery**. Parents and students explore science by participating in hands-on activities and joining in demonstrations and discussions. Guest science instructors lead three identical twenty-five-minute sessions with families that have pre-registered. Sessions begin at 7:30 p.m. and end by 8:30 p.m. You can select your topic and determine the presentation of the content. Or you can lead one of the stock activities, We will forward the instructions and description of the activity and have the supplies waiting in your classroom at FSN. To volunteer, contact Melody Richardson at Richardson.Melody@gmail.com.

## Women in Engineering

January 9, 6:30 PM

Planning Activities for **'Introduce a Girl to Engineering Day'** at Ivy Prep, introduce new Officers and vote on the budget

More information: [https://meetings.vtools.ieee.org/meeting\\_view/list\\_meeting/22759](https://meetings.vtools.ieee.org/meeting_view/list_meeting/22759)

## Industry Applications Society

January 21, 11:45 AM

NEC 2014 Changes

More information: [https://meetings.vtools.ieee.org/meeting\\_view/list\\_meeting/19953](https://meetings.vtools.ieee.org/meeting_view/list_meeting/19953)

## ExCom/AdCom Meeting

January 28, 6:00 PM

Bimonthly administrative meeting

More information: [https://meetings.vtools.ieee.org/meeting\\_view/list\\_meeting/22835](https://meetings.vtools.ieee.org/meeting_view/list_meeting/22835)

IEEE eNotice <enotice@ieee.org>  
To: <bill.marshall@gtri.gatech.edu>  
Reply-To: <no\_reply\_enotice@ieee.org>  
Upcoming IEEE Atlanta Section Meetings

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January 30, 2014 3:06 PM

## Volunteers Needed!

Please join the Women in Engineering for National Engineers Week's "Introduce a Girl to Engineering Day" at Ivy Preparatory Academy in Norcross on Thursday February 20, 2014 from 9am to 11am. We will work with 300 girls in 16 classes to help them design a "dance pad" circuit. It's all about working in teams, design, trial, error and discovery. Anyone with an engineering interest can volunteer, including women, men, IEEE members or not. We'd love to have students from local engineering groups join us. Please share this link with anyone who may be interested. Sign up at <http://www.signupgenius.com/go/70A0844AEAE22A57-girl>

Women in Engineering  
February 6, 6:30 PM

Volunteer Training for the February 20th "Introduce a Girl to Engineering Day" Event  
More information: [https://meetings.vtools.ieee.org/meeting\\_view/list\\_meeting/22761](https://meetings.vtools.ieee.org/meeting_view/list_meeting/22761)

Industry Applications Society  
February 18, 11:45 AM

Engineering Economics of Alternative Power Sources  
More information: [https://meetings.vtools.ieee.org/meeting\\_view/list\\_meeting/19951](https://meetings.vtools.ieee.org/meeting_view/list_meeting/19951)

Computer Society  
February 19, 12:00 PM

Cyber-Physical Systems at Small and Large Scales  
More information: [https://meetings.vtools.ieee.org/meeting\\_view/list\\_meeting/23041](https://meetings.vtools.ieee.org/meeting_view/list_meeting/23041)

Women in Engineering  
February 20, 9:00 AM

Introduce a Girl to Engineering Day" at Ivy Preparatory Academy  
More information: [https://meetings.vtools.ieee.org/meeting\\_view/list\\_meeting/23487](https://meetings.vtools.ieee.org/meeting_view/list_meeting/23487)



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Upcoming IEEE Atlanta Section Meetings

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#### Volunteers Needed!

The **Georgia Science & Engineering Fair (GSEF)** needs at least 300 volunteer judges for the state finals to be held in Athens on Saturday, March 29th. The **Atlanta Section will be awarding two prizes for high school students and two prizes for middle school students.**

To volunteer: <http://www.georgiacenter.uga.edu/sites/default/files/judge-volunteer-form-2014.pdf>

#### Women in Engineering

March 6, 6:30 PM

Thank-you dinner and celebration of "**Introduce a Girl to Engineering Day**"

More information: [https://meetings.vtools.ieee.org/meeting\\_view/list\\_meeting/24375](https://meetings.vtools.ieee.org/meeting_view/list_meeting/24375)

#### Industry Applications Society

March 17, 11:45 AM

Photovoltaic Solar Projects

More information: [https://meetings.vtools.ieee.org/meeting\\_view/list\\_meeting/19949](https://meetings.vtools.ieee.org/meeting_view/list_meeting/19949)

#### Atlanta Section

March 25, 6:00 PM

ExCom/AdCom Meeting

More information: [https://meetings.vtools.ieee.org/meeting\\_view/list\\_meeting/22837](https://meetings.vtools.ieee.org/meeting_view/list_meeting/22837)

#### Engineering in Medicine and Biology Society

March 26, 6:30 PM

Neurostimulation

More information: [https://meetings.vtools.ieee.org/meeting\\_view/list\\_meeting/24379](https://meetings.vtools.ieee.org/meeting_view/list_meeting/24379)

#### Industry Applications Society

April 21, 11:45 AM

Georgia Professional Engineer Rules & Regulations

More information: [https://meetings.vtools.ieee.org/meeting\\_view/list\\_meeting/19947](https://meetings.vtools.ieee.org/meeting_view/list_meeting/19947)



# Atlanta Section Examples ("Special" Events)

## IEEE CS Atlanta - GTRI's Robotics and Automation

You are invited to join us on Wednesday, Feb. 27, for dinner and learning at a meeting of the ATLANTA CHAPTER – IEEE COMPUTER SOCIETY. The event will include several mini-demos highlighting GTRI's robotics and automation research, including unmanned vehicles, robot control, food processing and quality control, worker safety, and audio analysis.

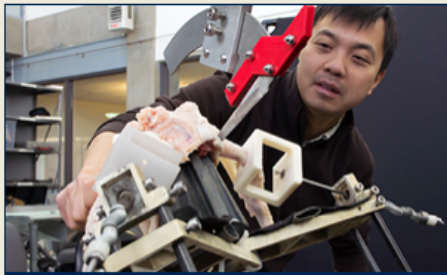
**COST:** IEEE Member: \$5.00 for Dinner (must register and pay by credit card online by 4:00 PM on Feb. 22)  
Non-Member: \$10.00 for Dinner (must register and pay by credit card online by 4:00 PM on Feb. 22)  
Please note that parking is free. Pull up to the guard gate and let them know you are attending the IEEE meeting, then park in the lot across the circle from the gate.

To get to the building, follow the instructions at [www.foodtech.gatech.edu/directions.html](http://www.foodtech.gatech.edu/directions.html)

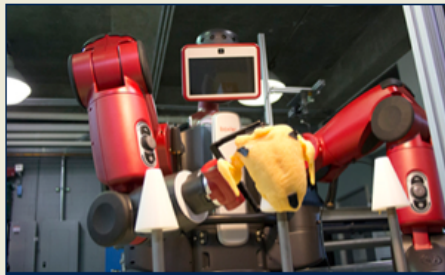
### Location:

#### Robotics & Automation

Robotics and automation research studies focus heavily on integrated, "intelligent" automation systems. These systems offer major opportunities to further enhance productivity in the poultry and food processing industries. They incorporate advanced sensors, robotics, and computer simulation and control technologies in an integrated package and tackle a number of unique challenges in trying to address specific industrial needs.



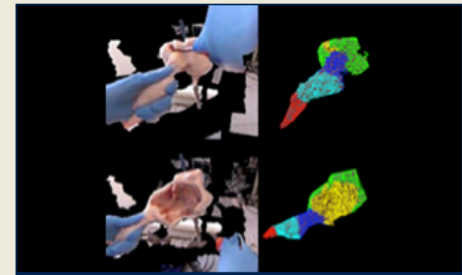
Intelligent Cutting and  
Deboning System



Automated Cone Loading  
with Low-Cost Robot Baxter



Monitoring Animal  
Well-being in a Broiler  
Growout House Environment  
Using Mobile Robotics and  
Sensing



Adaptive Perception During  
Manipulation

## IEEE CS Atlanta - Tour GDOT Transportation Management Center

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You are invited to join us on Tuesday, July 2, for a tour of the Georgia Department of Transportation (GDOT) Management Center (TMC) headquarters in Atlanta to observe TMC and HERO operations. The GDOT Statewide TMC is a nationally recognized leader in Intelligent Transportation Systems (ITS) which operates 24 hours a day/7 days a week. TMC Operators coordinate with the HERO Operators, Georgia State Patrol, Local 911/Law Enforcement Agencies and other emergency management agencies to disseminate travel information to the public.

Attendees will tour the TMC control room during the 6pm-7pm portion of evening rush hour and witness real time operations. The NaviGator system integrates cutting-edge technology in the management of interstates and surface streets, serves as a repository for the evaluation and dissemination of travel information and allows state and local engineers to make decisions that affect traffic in real time.





# Atlanta Mini Maker Faire®

Saturday, October 26, 2013  
10AM-5PM

Georgia Tech

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MEET OUR MAKERS

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## Maker Faire Returns to Atlanta October 26



The third annual Atlanta Mini Maker Faire is scheduled for Saturday, October 26, 2013 at Georgia Tech from 10am to 5pm. Featuring both established and emerging local "Makers," the Atlanta Mini Maker Faire is a free family-friendly celebration featuring speakers, workshops, and exhibits on topics such as robotics, green tech, electric vehicles, vintage computing, 3D printing, textile arts, home fabrication, and much more! Get your TICKETS [here https://atlantamakerfaire.eventbrite.com/](https://atlantamakerfaire.eventbrite.com/)

A Free Family Event Celebrating DIY • [makerfaireatl.com](http://makerfaireatl.com)

Atlanta Mini Maker Faire®

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THE ARTHUR M. BLANK  
FAMILY FOUNDATION



October 26, 2013

Georgia Tech • 10 AM - 5 PM

Ticket Information

Powered by [Eventbrite™](http://Eventbrite.com)

**IEEE Atlanta Section 2010 Banquet**



**Featuring Elizabeth Whitaker, Erica Briscoe and Ethan Trehitt  
of the Georgia Tech Research Institute**

- Program:** "I Spy a Red Balloon"  
**Date:** Thursday, 22-April 2010  
**Location:** Petite Auberge Restaurant  
Toco Hills Shopping Center  
2935 N. Druid Hills Rd.  
Atlanta, GA 30329  
**Reception:** 6:15 to 7:00 p.m.  
**Dinner:** begins at 7:00 p.m.

At the 2010 IEEE Atlanta Spring Banquet you'll hear from members of the Georgia Tech team that finished second in a national competition aimed at quickly locating 10 red weather balloons tethered at locations across the United States. You'll hear about the competition, how the team built a network of more than a thousand helpers, what they did to prepare for the event, what happened on the day of the event, and what social media tools they used to locate the nine balloons during the nine-hour competition.



## IEEE Atlanta Section 2011 Banquet



### **Featuring Rossella Manfrinato**

**Vice President of Motorsport Technology at Sportronix & Race Car Driver/Engineer**

**Program:** "My Life as a Racing Engineer: From Toy Cars to Indy Cars"

**Date:** Wednesday, April 27, 2011

**Location:** Petite Auberge Restaurant

Toco Hills Shopping Center, 2935 N. Druid Hills Rd. Atlanta, GA 30329

**Reception:** 6:15 to 7:00 p.m.

**Dinner:** begins at 7:00 p.m.

At the 2011 IEEE Atlanta Spring Banquet you'll hear from Rossella Manfrinato. Rossella will tell her story -- as one of the first women in motorsport -- from her Italian roots to her American dream. She will detail how she started by working with a professional team and gained experience working for one of the world's biggest race car manufacturers. She will also describe the opportunities she's had to work as an engineer in sports car and Formula racing series, both on oval and road/street courses, in sprint and endurance races.



# ***The IEEE Atlanta Section Announces Our 2012 Banquet on Wednesday, April 18***

***Featuring Dr. Ayanna Howard, named a 2003 “Top 35 Innovators Under 35” by MIT Technology Review***

## **Intelligent Robotics for Assistive Healthcare and Therapy**

Learning from interaction, whether through teleoperation or physical demonstration, has shown to be a successful technology for engaging people with robotic systems. Through human interaction, even complex humanoid robots have learned to perform a variety of challenging tasks, such as retrieving common household objects for their human companions. Yet, there are still open areas of need that these robotic systems can address in the home environment. Through robotic interaction, quality of life for older adults and/or people who experience disabling circumstances could be improved, by, for example, executing grasping, pick-and-place, and fetch-and-carry tasks. It could similarly aid clinicians and healthcare professionals providing treatment to children. There are numerous challenges though that must be addressed - determining the roles and responsibilities of both human and robot, developing interfaces for humans to interact with robots that does not require extensive training, and developing methods to allow the robot to learn from their human counterparts. In this talk, I will discuss research

### **Schedule**

6:15-7:00 Reception  
7:00-8:00 Dinner  
8:00-8:15 Announcements  
8:15-9:15 Main Program



Re planning. Member discounts are available, but advance payment is necessary for member rates to apply:

\$25/person for IEEE members and guests

\$10/person for IEEE *student* members and guests

\$75/person for non-members and guests (includes \$445





# *The IEEE Atlanta Section Announces Our 2013 Banquet on Tuesday, April 2*

*Featuring Dr. Alstair Dove, Director of Research and Conservation*

## **“Engineering the World’s Largest Aquarium”**

Most guests who visit Georgia Aquarium do so blissfully unaware of the scale of the engineering required to present them with exhibits featuring such challenging species as whales, manta rays and whale sharks. From standard water treatments like physical filtration, to more exotic devices like sulfur autotrophic denitrification bioreactors and granular ferric oxide reactors, Aquarium operators bring to bear a whole range of approaches to maintaining optimal life support conditions for a collection of over 800 marine species, 400 miles from the ocean. Dr. Dove will explore the engineering behind the glass (and OF the glass too, for that matter), from a non-engineer’s perspective. **Then he will go off on a crazy tangent to discuss the animals**

Sche engineer’s perspective. **Then he will go off on a crazy tangent to discuss the animals themselves, because natural selection has produced some pretty interesting bits of engineering in the animal kingdom.**



GEORGIA AQUARIUM

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