Message from IEEE New Orleans Section Chair!

To IEEE New Orleans Section members,

It is time to elect next year’s Executive Committee for your New Orleans Section. The nomination committee has proposed an excellent slate of candidates, so please let your voice be heard by voting. There are still several more meetings coming up in the next few months to get together in both a technical or social setting with your IEEE and New Orleans Section friends. Please check out this edition of the Section Bits and the New Orleans Section website for future planned events.

Thanks to all of you who supported Manufacturers’ Night, it was a huge success. Sponsorship was better than ever, and attendance looked to be close to one hundred and eighty. Please take note of the sponsors listed below and thank them for their support. Thanks to Mike Walcott for organizing the event and thanks to Tammy Lapeyrouse for coordinating with the sponsors!

Cat Wong, PhD, PE, PMP
Recent and Upcoming Events

⇒ Section
  ♦ 11/15: Ethic Night
  ♦ 12/15: Past Chair Night

⇒ Communications Society
  ♦ 10/20: Joint meeting with PES — solar farms system at Entergy by Andrew Owen and James Charboneau

⇒ Industrial Application Society (IAS)
  ♦ 10/12: meeting on Surviving Grid Instability in an Industrial Environment.
  ♦ 11/9: meeting will be presented by WS Nelson
  ♦ 12/14: meeting will be presented by Niagara

⇒ Power and Energy Society (PES)
  ♦ 9/19: Power Systems Cybersecurity by Nathan Wallace
  ♦ 10/20: Joint meeting with PES — solar farms system at Entergy by Andrew Owens and James Charboneau
  ♦ 10/27: Short Couse by John McDonald (6 PDHs)

⇒ Life Member Affinity Group
  ♦ Third Thursday of the month

⇒ Young Professional Affinity Group
  ♦ 10/15: Strike Out for STEM event

⇒ UNO Student Branch
  ♦ 9/22: meet and greet with Excom members

October 2016

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Entergy Solar Project
Patterson Site

20-Oct-2016, the IEEE New Orleans Sections’ PES & Com-Soc Chapters will host this presentation by Entergy's’ Mr. Andrew Owens and Mr. James Charboneau.

Abstract:
The presentation will cover changes in the utility industry, the growing role of Distributed Energy Resources (DERs) with a focus on solar PV’s and information about Entergy’s various renewable efforts and pilot projects including the new solar+battery project at their Patterson site in New Orleans.

Networking 6 PM, dinner/presentation at 7 PM at Porter & Lukes

Admission:
- IEEE Members: $30, (+ $30 one guest)
- IEEE Retired & Student Members: $20, (+ $20 one guest)
- Non-members: $50

RSVP required. Visit:
- http://sites.ieee.org/neworleans/event/solar-farming-pv/

Special Guests
Andrew Owens is Director, Regulatory Research. He provides regulatory support on emerging technology issues to Entergy’s five public utilities.

James Charboneau is Manager of Technology and Innovation and recently served as the Project Manager for Entergy New Orleans’ Solar Power Plant, a new state-of-the-art 1 MWAC single axis tracking solar project with a fully integrated 0.5 MWe battery.
On September 15th, the IEEE New Orleans Section held its Annual Manufacturers’ Night at Southport Music Hall in New Orleans, LA. The event featured boiled crabs, boiled shrimp, and various other food offerings. Additionally, there were presentations given by the two IEEE Presidential Candidates, James Jeffries and Wanda Reder. The event was a great experience for all those in attendance, and it allowed for excellent networking opportunities between local professionals. On behalf of the IEEE New Orleans Section, we would like to thank all those in attendance, our incredible sponsors for funding this event, NOLA Boil for providing delicious food, Southport Music Hall and its staff, Wanda Reder and James Jeffries, and most importantly all of our local IEEE members for making this event possible and successful. We hope and expect the same success at next year’s event and other events in the future!
Thank You to all IEEE New Orleans Manufacturer’s Night Sponsors

**Patron Sponsors:**

- M S Benbow & Associates
  A Professional Engineering Corporation

- AERTKER
  ELECTRICAL MANUFACTURERS’ REPRESENTATIVE

- Power & Energy Systems Engineering

**Gold Sponsors:**

- Automation Control Company, Inc

- CURTIS STOUT
  CONSIDER IT DONE

- MITSUBISHI ELECTRIC
  Changes for the Better

- PREFERRED SALES AGENCY, LTD.
  MANUFACTURERS’ REPRESENTATIVES

- POWER CONNECTIONS, INC.
Thank You to all IEEE New Orleans Manufacturer’s Night Sponsors

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Mahl & Associates, Inc.

Power Sales & Services

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Thank You to all IEEE New Orleans Manufacturer’s Night Sponsors

Silver Sponsors:

- Waukesha
- AECOM
- Nolan Power Group
- Power Engineering Consultants

Bronze Sponsors:

- Ruffin & Associates
- BETA
- PowerGrid Engineering LLC
- POWER EQUIP Sales/Reps
This is to inform you that, according to the IEEE New Orleans Section data, you are eligible for an IEEE “Loyal Member” pin.

The Membership Loyalty pin is a token of our appreciation and recognition of your cumulative years of service and support as an IEEE New Orleans Section member. This pin symbolizes the time you have given to help us pursue our goals, and a token of the part that you have played in making IEEE New Orleans Section what it is today.

I would like to invite you to one of our upcoming events to be recognized and receive your loyalty pin!

Please see our calendar of events by visiting http://sites.ieee.org/neworleans/events/.

Sincerely,

Michael Walcott, Associate Director
IEEE Region 5 New Orleans Section
Email: mwalcot@entergy.com
IEEE PES Meeting

An IEEE PES Meeting was held on 9/19/16 at the Entergy building in New Orleans. The speaker for the event was Nathan Wallace, who gave a presentation titled, “Power Systems Cybersecurity: Why, What Are We Missing, and When Is It Enough?” There was a good turnout for the event which allowed the attendees to learn more about cybersecurity. We hope to have more successful PES Meetings like this one in the future!

IEEE New Orleans Section Upcoming Elections

The New Orleans Section of the IEEE will conduct elections in November for the officers for 2017. The nominating committee has met and nominated the following people to serve on the Section’s Executive Committee next year.

- **Chair**: Dr. Cat Wong
- **Vice Chair**: Dr. Maryclaire Peterson
- **Treasurer**: Mr. Paul Cassingham
- **Secretary**: Mr. George Bartlett
- **Director 1**: Ms. Tammy Lapeyrouse
- **Director 2**: Dr. Chan Wong and Lt. Lawrence Hall
- **Director 3**: Mr. Jason VanHuss and Mr. Mike Walcott

Officers may be nominated by petition also. Any member may nominate a candidate by a petition which must be signed by 1% of the members of the section. Candidates for the position of Chair, Vice Chair, Treasurer, and Secretary must have prior service on the Executive Committee. Candidates for Director need no previous experience on the Executive Committee.

Please submit any nominations by petition to:

**Mr. Stephen Bourg**  
Past Section Chairman 2012  
Nominations Committee Chair 2015 and 2017  
SDBourg2@cox.net
IEEE Annual Elections

The voting membership of IEEE annually elects officers that serve on the top-tier IEEE governing bodies. The candidates are drawn from recommendations made by divisional and regional nominating committees, as well as candidates nominated by petition.

This year, IEEE members selected James A. Jeffries as 2017 IEEE President-Elect. The story from ieee.org can be seen below:

IEEE Members Selected James A. Jeffries as 2017 IEEE President-Elect

7 October - James A. Jeffries, Senior Member has been selected as the 2017 IEEE President-Elect. Pending acceptance of the IEEE Tellers’ Committee report by the IEEE Board of Directors on 20–21 November, Jeffries will begin serving as IEEE President on 1 January 2018. He will succeed 2017 IEEE President Karen Bartleson, Senior Director of Corporate Programs and Initiatives, Synopsys (retired), Mountain View, California, USA. The other candidate for 2017 IEEE President-Elect was Wanda K. Reder, Chief Strategy Officer, S&C Electric Company, Chicago, Illinois, USA (nominated by IEEE Board of Directors).

Of the members who voted, 23,865 selected James A. Jeffries, 23,327 selected Wanda K. Reder.

The race this year was incredibly close with the two candidates, James Jeffries and Wanda Reder, separated by only 538 votes out of a total of 47,192 votes cast.

The IEEE New Orleans Section would like to congratulate James Jeffries on his election and congratulate Wanda Reder on her great campaign. We know it came down to the best two candidates possible, and we are very excited for the future of IEEE with James Jeffries at the helm!
The Tulane School of Science and Engineering is embarking on a new curriculum that will include certificate programs in electrical, mechanical, materials, and computational engineering.

Under the program, students majoring in engineering physics may choose one of the four concentrations, enabling them to graduate with both a bachelor’s degree in engineering physics and a certificate in their specialty area.

“We are very excited about the newly approved certificates, which will allow students to combine the broad foundation of the existing Engineering Physics major with a concentration in a more focused area of engineering,” said Lev Kaplan, chair of the physics and engineering physics department at Tulane.
“The new certificates will further help (students) ... market their abilities for internships, jobs and graduate programs.”

Professor Lev Kaplan

“Many of our graduates are already pursuing master’s or PhD degrees in these areas, or going into industry jobs in these areas, and the new certificates will further help them plan their elective coursework and market their abilities for internships, jobs and graduate programs,” Kaplan said.

Tulane began offering the concentrations at the beginning of the 2016-17 academic year, and each certificate has a pre-approved set of coursework that meets the requirements of that certificate.

Nick Altiero, dean of the School of Science and Engineering, emphasized that the new certificate program is an expansion of engineering that will give students an edge as they apply to graduate school or enter the job market.

“I firmly believe that our integrated School of Science and Engineering is something special,” he said, “and I want us to build engineering programs that take full advantage of our strengths in the sciences.”

IEEE Constitutional Amendment Rejected.

During the IEEE Presidential Election, an amendment to the IEEE Constitution was also voted on and thankfully rejected. Currently, IEEE’s governance is contained in the Constitution. Changes in governance require changes in the Constitution, and those changes have to be approved by the members in the annual election. The purpose of the amendment was to transfer the governance of IEEE from the Constitution to the Bylaws. The IEEE Board of Directors alone controls the Bylaws. If the amendment had passed, the current Board, or any future Board, would have been able to make any changes they feel appropriate without any input of agreement from the members. We as the IEEE New Orleans Section were opposed to this amendment, and we are pleased to see that the majority of the voters felt the same way.
Jimmy the Robot

Article From IEEE Spectrum Robotics News (roboticnews@ieee.mmsend.com)

Disney Robot With Air-Water Actuators Shows Off "Very Fluid" Motions

Like other Disney creations, Jimmy looks rather magical. While humanoid robots can be painfully slow, Jimmy moves with lifelike speed and grace, and it can safely operate near people—even touch them. There's no magic, of course, just beautiful engineering. Jimmy is not powered by bulky electric motors and gears; instead, it relies on a new kind of actuator designed by Disney researchers that consists basically of tubes filled with air and water. And while the current version of the robot requires a human puppeteer to control its movements, Disney hopes that future models will be able to operate autonomously.

6th Annual Strike for STEM Event

The IEEE New Orleans Section co-sponsored the 6th annual Strike for STEM event to benefit Core Element, a non-profit organization promoting quality teaching in science, technology, engineering, and mathematics. This is the fifth year that the IEEE New Orleans Section is co-sponsoring the event. The event was held on October 15th, 2016 at Rock N Bowl in New Orleans and was attended by over 200 STEM students and professionals. Twenty-two IEEE student members, young professionals, and members were in attendance and enjoyed a night of bowling, networking, food and drinks, and live entertainment. Fifteen other professional organizations co-sponsored the event and participated in the Strike for STEM team bowling competition. The IEEE bowling teams had a great time throughout the competition, and one of the IEEE teams won the coveted STEM bowling trophy! We look forward to participating in this event next year!
New Members in Your Section!

The IEEE New Orleans Section is proud to announce 35 new members! We are excited about getting to know them and seeing the contributions they can make to our section. Furthermore, we would like to congratulate all of our new members on joining our IEEE family!

NEW SENIOR MEMBER: We are also proud to announce that Ms. Tammy Lapeyrouse has been elevated Senior Membership in IEEE. Her hard work and continuous contribution to our section have not gone unnoticed, and we greatly appreciate her service. Thank you, Tammy!

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Are you interested in getting more involved with IEEE? If so, there are numerous opportunities where you can volunteer and get involved.

Here are a few ideas to get you started:

- Connect with your local IEEE Section and Chapters
- Participate in a technical society or council
- Help organize IEEE conferences
- Get involved with the IEEE Standards Association

As an IEEE volunteer, you can take pride in participating in activities that interest you, while expanding your knowledge of IEEE, gaining valuable management and leadership skills, and connecting with others in your profession.

For more information, please contact any of the New Orleans Section Executive Committee members or go to: [http://www.ieee.org/about/volunteers/volunteer_index.html](http://www.ieee.org/about/volunteers/volunteer_index.html)
IEEE New Orleans Section 2016 Officers

**Officers:**
- **Chair:** Cat Wong, Ph.D., PE, PMP
- **Vice-Chair:** Maryclaire Peterson, Ph.D.
- **Secretary:** George Bartlett
- **Treasurer:** Paul Cassingham
- **Director 1:** Tammy Lapeyrouse
- **Director 2:** Chan Wong, Ph.D.
- **Director 3:** Jason VanHuss
- **Associate Director:** Michael Walcott
- **vTools Coordinator:** Paul Cassingham
- **Budget Committee:** Paul Cassingham
- **Recent Past Chair:** Mark McCulla

**Chapter / Affinity Group Chairs:**
- **Communications Society:** Steve Bourg
- **Computer Society:** Anastasia Kurdia, Ph.D.
- **Engineering in Medicine & Biology:** Yu-Ping Wong, Ph.D.
- **Industry Applications Society:** Dean Ruiz
- **Power and Energy Society:** Peter Wood
- **Young Professionals:** Paul Scanlon
- **Life Members:** Tom Slack
- **PACE:** Leo Holzenthal

**Student Branches:**
- **Delgado Student Branch:** (vacant)
- **Tulane Student Branch:** Miles Dakin
- **University of New Orleans:** Damian Perrin

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[http://sites.ieee.org/neworleans/](http://sites.ieee.org/neworleans/)

Edited By: Scott Brown, Relay Settings Intern