



I NSTITUTE OF
E LECTRICAL AND
E LECTRONICS
E NGINEERS, Inc.

The Baton Rouge Section

NEWSLETTER

Newsletter of the Baton Rouge Section of the Institute of Electrical and Electronics Engineers, Inc. March, 2005

1999-05 OFFICERS

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618-4330 (F)

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Monty LaCour

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Monty LaCour

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297-3446 (O)
293-1517 (F)

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Membership Chairman

Monty LaCour

Student Liaison

Vacant

Student Activities

Co-Chairman

LSU- Dr. Ahmed El-Amawy
SU-Dr. Pradeep Bhattacharya

Chairman's Message

The last meeting was in February and had twenty-five people in attendance including three non-members. The presentation was titled Emerson 15 KV cable PD testing. The presenter was Mr. Wally Vahlstrom and he is the Director, Technical Services for Electrical Reliability Services, Inc. I was informed that it was a good meeting and as you can see we had a good response in the turnout. I would have liked to be at the meeting but had other things to take care of.

Would the Student Section at LSU please send me a list of officers for the coming year? Thanks. If you have a meeting schedule, send it to me and I will include it in the newsletter.

Thank you SOUTHERN for sending me the current list of officers. If you have a meeting schedule, send it to me and I will include it in the newsletter.

If any of the Student Sections are planning to attend and compete in the Region 5 meeting in Denver, contact me at your convenience. The Section will be able to assist in providing some funding for the meeting.

The attachment below is concerning the Region 5 Meeting that will be held in Denver. It should be an interesting meeting and anyone who is interested, please contact me or Monty and the Section may be able to assist anyone who is thinking about attending. It is still possible to go to the Region 5 meeting, but we need to know at least at the meeting next Thursday. As I have indicated in the past, these meetings are very good in content and the networking opportunities are there.



2005 Technical,
Professional a...

Also, there is good information concerning student members and activities that you can get by contacting L.Durrett@iee.org and requesting a link to Region 5 Student Newsletter.

UPCOMING AGENDA

- March 24, 2005 Smart Substations
- April 28, 2005 Ethics (should know something at meeting)
- May 26, 2005 ABB presentation subject to be confirmed.

Your input is still/always needed for future programs. Please contact any Section Officer or email me at o.j.brouillette@iee.org. You may call or drop a line to me (see RSVP phone number or return address) with a topic and a potential presenter or point of contact, and we will try to arrange a meeting, which will be of interest to you. We will try to give plenty of advance notice of the meetings so that you can arrange your schedule to attend the meeting(s) that interest you. Remember to attend the meeting and receive a Certificate of Completion for Professional Development Hours (PDH's).

"Your attendance promotes our voluntary efforts."

**O. J.
Section Chairman**

MEETING NOTICE

Date: Thursday, March 24, 2005
Place: Drusilla's Restaurant
3482 Drusilla Lane

Time: Social.....6:00 P.M.
Dinner (\$15.00 members/
\$18.00 non-members)....6:30 P.M.
Speaker Presentation6:30 P.M.

CONTINUING PROFESSIONAL DEVELOPMENT

Joint meeting IAS & IEEE Professional Presentation **The Future of Substations**

ABSTRACT of PRESENTATION

During the 1980's and 1990's, plant process control hardware evolved for pressure, flow and temperature measurement sensing and control. Industrially "hardened" microprocessor control and communications technologies became standard. The industrial substation maintained a constant design, although microprocessor protection and metering was accepted for local devices.

Utility Companies embraced the full power of digital microprocessors. With supervisory control and data acquisition (SCADA), utility substation protection, control, and system response was more reliable. Some SCADA benefits are as follows.

1. Notification is prompt; remote operators were notified immediately of any substation change.
2. Cost is reduced; electricians do not go to remote substations.
3. Safety is improved; switching operations do not require a person in the substation.
4. Data was accessed remotely "on demand".

The Smart Industrial Substation is a "best fit" integration of traditional and modern substation devices with local/remote HMT's, pagers and, cell phones. These are tools the Process and Utility industries have adopted for monitoring, control, and shutdown tasks.

The Smart Industrial Substation shifts electrical technician functions from time consuming tasks in front of substation equipment, to time saving tasks away from the substation. When fully implemented, the Smart Industrial Substation automates substation activities and refines process and electrical control actions.

For the Smart Industrial Substation method to be considered by Operating Companies, it must be cost effective, intuitive, and have increased operator safety.

BIOGRAPHICAL DATA of PRESENTER

Jim Bowen

Current Company and Years of Service:

Powell Electrical Mfg. Co., 5 years of service

Prior Company Information:

18 years with Exxon -- industrial power engineering, maintenance, and start-up experience

3 years with SIP Engineering-- industrial power engineering, and design experience

College Degrees:

B.S.E.E. (1976) from Texas A&M University

Work Background:

During his experience with Exxon he worked in all facets of Electrical Engineering involved with the petrochemical process. He had responsibilities as a maintenance engineer, project design owners engineer, construction follow-up and commissioning engineering activities on several large projects including Co-generation, High Voltage Gas Insulated Switchgear, large variable speed drivers, and

various other grass-root projects. He also held the post of the Regional Engineer for Exxon Chemicals Europe for three years. At Powell Electrical Mfg. Co. Jim holds the post of Technical Director. As Technical Director he provides leadership, training and mentoring in the utilization of equipment rated 38 kV and below. He authors the Powell Technical Briefs a popular 1 to 3 page article addressing technical problems commonly found in the Electrical Power work place. *IEEE/PCIC Contributions:*

Co-Author, Pulp & Paper Conference Paper

A Comparison of IEC and ANSI Switchgear Standards

Author, PCIC

Substation Commissioning Planning

Co-Author, Paper PCIC-98-22

Do You Want To Put All Your Relay "Eggs" in One Basket?

Co-Author, Paper PCIC

Is Selectivity Achieved in Critical Low-Voltage UPS and Standby

Generator Power Circuits? Co-Author, Paper PCIC

Modeling of the Pressure wave associated with Arc Faults

CO-Author, Paper PCIC

Medium voltage Replacement breaker Projects

PCIC Safety workshop presenter:

- Safety by design,

- High resistance grounding

- Arcing Fault

IEEE IAS Safety Workshop

-2003 Registration Chair

-2004 Technical Program Chair

Licenses:

P.E. in Texas

VISIT THE BR SECTION WEBSITE

http://www.ewh.ieee.org/r5/baton_rouge/

Remember...meeting is at Drusilla's Restaurant...

See you there.

The 2004- 05 Officers of the IEEE LSU Branch.

Chair:

Vice-Chair:

Secretary:

Treasurer:

Counselor: Dr. Ahmed El-Amawy

Robotics Committee Co-Chairs:

The 2004- 05 Officers of the IEEE SU Branch.

Chair: Teekia Ford

Vice-Chair: Lanisha Sprull

Secretary: Tuere Davis

Treasurer: Ashley Sensley

Counselor: Dr. Pradeep Bhattacharya

Robotics Committee Co-Chairs: Reginald Cooper

RSVP to 225- 618-4423 by March, 23, 2005

IEEE JOB SITE*

www.ieee.org/jobs

Here's your report on news from around the IEEE by the editors of The Institute. The most current version of The Institute can always be found at <http://www.ieee.org/theinstitute>

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1. Information Free-for-All?

If open access—a movement gaining momentum in academic publishing circles that proposes journal articles be made available online to all readers for free—becomes a reality, the results could dramatically reshape the activities of all scholarly publishers, including the IEEE.

Read more at

<http://boldfish.ieee.org/u/openacc7d/01381052>

- #### 2. Readers' Survey: Thumbs Up for The Institute
- Our readers had good things to say about the changes to format and content recently made to The Institute, according to a survey of IEEE members conducted late last year. Some 79 percent of respondents rate the publication's quality as excellent or good, a jump from the 70 percent who voiced the same opinion in a survey conducted in 2001.

Read more at

<http://boldfish.ieee.org/u/survey7e/01381052>

3. Stepping Up to Senior Member

What does it mean to be a senior member of the IEEE? At the very least it means you've met some basic requirements: working 10 years in the profession, including five demonstrating significant professional performance, and you've received three supporting references from other IEEE senior members or fellows. But this tells only part of the story. Senior members often find their status to be an asset in their careers.

Learn more at

<http://boldfish.ieee.org/u/senior7f/01381052>

- #### 4. Distinguished Career Parallels South Korea's Revival
- IEEE Fellow Jung Uck Seo has played a pivotal role in South Korea's technological development by overseeing the design and installation of telephone and cellular networks that helped lay the foundation for the country's rise in broadband communications—a linchpin of the nation's success. Find out more about his career at <http://boldfish.ieee.org/u/korea7h/01381052>

5. Marketplace of Ideas: Agog Over Blogs

More and more people claim they get their news from the estimated four million Weblogs, or blogs. Do you read blogs? Why? Weigh in at

[<mailto:institute@ieee.org>](mailto:institute@ieee.org)

- #### 6. Half-Year Dues Now Available for Societies, Publications
- Now may be a good time to try out a new society. Dues on new IEEE society memberships are now half price. Or try out a new IEEE publication since rates are now discounted for new subscriptions. To add societies or publications to your existing membership, visit the Add Services link at <http://boldfish.ieee.org/u/dues7i/01381052>

- #### 7. IEEE Opens Search for Executive Director
- The IEEE has initiated its search for a new executive director.

If you have a strong business background with budget and management responsibilities at a senior level, you might want to consider applying for the position. Read a summary of the job description at <http://boldfish.ieee.org/u/exdir7k/01381052>

8. Apply for a Job at Google Through IEEE Job Site The IEEE Job Site now has more than 5200 listings, including 100 positions posted by Google, the Internet search company. The company is looking for people with world-class programming skills who are passionate about their work and want to make a difference in the world, according to the posting. Check out the Google jobs and other listings on the IEEE Job Site at <http://boldfish.ieee.org/u/goo7l/01381052>