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| Newsletter of the Baton Rouge Section of the Institute of Electrical and Electronics Engineers, Inc May, 2024 |

**2024 BR**

**SECTION CONTACTS**

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**Newsletter Editor**

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**IAS Chapter Chair**

Charles Darnell

**Professional Activities**

Dennis M. Kates

**WIE Affinity Group Chair**

Vacant

**Student Branch Counselors**

LSU- TBD

SU – Dr.Fred Lacy

# Chairman’s Message

The April meeting was a joint meeting with IAS, ISA and WIE; held in person with a total of twenty-three (23) in attendance. Twenty (21) were IEEE members and two (2) guests. Those in attendance included five (5) IEEE IAS, one (1) WIE, three (3) ISA members and six (6) IEEE student members.

The April meeting topic was “Utilizing Cable Bus in High Current Applications” presented by Robert Sorbet with Stafford Electrical Sales LLC. Cable Busway Systems have been in use for about 60 years, originated in Canada with maple tree cutouts used as the first blocking systems. Components of Cable Busing include tray, cover, blocks, supports, insulated conductors, & non-magnetic hardware. These systems are generally used and most economical for ratings over 2000 Amps. Cable bus systems must be specifically engineered for the application due end to end design (ie: transformer and/or generator to main gear), and the nature of the separate system components.

Although there is no specific IEEE Cable Bus System standard, there are current standards by others that apply to the components of the system. The Cable Tray Institute (CTI) standards, NEMA VE-1 and NEMA VE-2 apply to the tray system. NEMA VE-1 Metal Cable Tray Systems which provides technical requirements for metal cable tray systems and NEMA VE-2 installation with support requirements for metal cable tray systems. Canadian Standards Association (CSA) standards are currently the most rigorous in defining Short Circuit Current Rating & Heat Rise Ratings. UL tray & cable bus listings only define the grounding & bonding between tray sections. The National Electric Code (NEC) articles related to covered and free air cable ratings cover the cables. These systems are specifically designed, tested and warrantied by the respective manufacturer for the application.

Cable bus systems are commonly used in the ever-increasing density of Data Centers expanding throughout the US.

Look forward seeing you at the next Baton Rouge Section IEEE meeting:

**May 09, 2024**

**LaContea Italiano Ristorante**

**Presentation Starts At 6:30pm**

To RSVP to meeting click on link below

[https://events.vtools.ieee.org/event/register/419624](https://events.vtools.ieee.org/event/register/419624%20)

Your RSVP for the meeting is important as this is an **in-person meeting**.

The sign-in list is typically published based on those that registered as of midday Wednesday (about 12 noon).

**UPCOMING AGENDA**

* May 9 ,2024 – Surge Product Technology and NEC Code: Shawn Johnson/Eaton
* June 13, 2024 – UPS Systems: Jeff Cloud Pantech/Ametek
* July 11, 2024 – To Be Determined: Hugh Wager Crescent Power/Southern States
* August 8, 2024 – To Be Determined David Smith/Triad
* September 12, 2024 – To Be Determined; Karen D. Morton, PE

If you want to volunteer or have ideas for improvement… Please let me know.

 Thanks.

  Robert Walker

### MEETING NOTICE

 Date: Thursday May 09, 2024 Time: Social……………….6:00pm

Place: LaContea Italiano Ristorante Speaker Presentation………6:30pm

Dinner: **Cash or Check only ($20 members/ $30 non-members/ Free IEEE students members)**

**AGENDA:** Meeting Sign-in include if member of IEEE, IAS, ISA, WIE or student.

* IEEE Region 5
	+ Updates
* BR Section 2024:
	+ What should be the three highest priorities for the section for 2024?
	+ Is there a topic you would like Region 5 to 'bring in the experts' to teach and work with your section on?
* Other
	+ 2024 IEEE IAS PCIC Conference, Sept 16-19 Orlando, FA
* **CONTINUING PROFESSIONAL DEVELOPMENT** Presentation

**“Surge Product Technology and NEC Code”**

**Presented by:** **Shawn Johnson**

# ABSTRACT of PRESENTATION

This presentation will be” Surge Product Technology & NEC Code”

With increasing emphasis on reliability and sustainability of electrical equipment and systems, the NEC has made advances in their requirements to increase the performance of designed electrical distribution systems.

The purpose of this presentation to review surge events, the technologies used to mitigate them, and how the NEC changes affect the design and performance of electrical distribution systems.

**BIOGRAPHICAL DATA of PRESENTER**

Shawn Johnson, P.E. has over 30 years’ experience, including assignments in consulting, utility distribution engineering, reliability engineering in petro-chemical environment, and ultimately sales of engineered distribution assemblies.

Shawn has been working with Eaton since 2013, and presently is an Application Engineer for the gulf district of Eaton Corporation, covering the south of the state of Louisiana. Shawn has a degree in Electrical Engineering, an MBA, and Masters in Engineering Management, all from the University of New Orleans.

Shawn Johnson, P.E.

Application Engineer

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**Ramblings and** **etc.**

* **Meeting notices are emailed each month.**
* Please RSVP thru the link. If you cannot RSVP thru the link or have questions, please email, or call Robert Walker or one of the other officers.

# VISIT THE BR SECTION WEBSITE

**Working on updating the BR IEEE section website**

**2023-2024 Officers of the IEEE LSU Branch**

**President** – Jadon Bijou jbijou2@lsu.edu

**Vice President** – Noah Fontenot nfont26@lsu.edu

**Secretary/Treasurer** – TBD

**Coordinator -**Chandler Pumford cpumfo1@lsu.edu

**Advisor:** TBD

**2023-2024 Officers of the IEEE SU Branch**

**Southern Branch Officers list is being updated****.**

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**MemberChair:** Keyonna Brown keyonna.brown@sus.edu

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| **RSVP (Non-Members and Members) via the link BEFORE May 09, 2024** **If you have issues, please email robert.walker@ieee.org**  |