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Florida West Coast Section (FWCS)

The SunCoast Signal

The Institute of Electrical and Electronics Engineers, Inc.

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PE Corner

**Art Nordlinger, PE, Senior Member
Shouldn't Someone Be Held Accountable?**

On June 24, the Champlain Tower South condo building collapsed. In the wake of this tragedy questions have been raised publicly in the press and otherwise, directed toward the Florida Board of Professional Engineers, to the tune of, "Shouldn't someone be held accountable?" and "Shouldn't someone lose their engineering license?" It is still very early in the investigation to be able to definitively answer those questions. However, I believe that we can at this point provide some context.

Section 471.033 Florida Statutes, Disciplinary Proceedings, establishes the grounds under which a licensee may be disciplined, resulting in variety of penalties including loss of license, depending on the severity of the offense. Section 61G15-19 Florida Administrative Code, Grounds for Disciplinary Proceedings, sets forth the rules that the FBPE must follow in implementing these statutes. Both of these include a large number of possible violations, most of which are likely not applicable to Champlain Tower collapse. Here are a few that could be.

Possibly the most likely reason for discipline in this case is "negligence". Negligence is defined as "the failure by a professional engineer to utilize due care in performing in an engineering capacity or failing to have due regard for acceptable standards of engineering principles." That is, failing to safeguard the life, health, property and welfare of the public.

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UPCOMING MEETINGS EXCOM

Tuesday, September 7, 2021

Google Meet

Register with vTools

<https://events.vtools.ieee.org/m/278935>

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All material for THE SUNCOAST SIGNAL is due in electronic form by the end of day of the 1st Monday after the 1st Tuesday of the month, i.e. the ExCom meeting, preceding the issue month.
Address all correspondence to: Michael Mayor, 10006 Cross Creek Blvd., PMB 140, Tampa, FL 33647, michael.mayor@ieee.org, (484) 524-3264

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Section 61G15-19(4) says “A professional engineer shall not be negligent in the practice of engineering.” If this is applicable to this situation, exactly who was negligent? We can look back at the original building design. However, the building stood for over 40 years. It has been reported that an engineering evaluation of the building was done several years ago, which reported “major structural damage” and abundant cracking and crumbling of support-bearing columns. The report also explained why extensive repairs were necessary. Was the engineer who produced this report negligent? I’m sure that the report will receive intense scrutiny, but at this time it’s way too early to jump to any conclusions.

Another possibility is to allege “incompetence”. Incompetence in the practice of engineering as set forth in Section 471.033(1)(g), F.S., shall mean the physical or mental incapacity or inability of a professional engineer to perform the duties normally required of the professional engineer.” Again, it would have to be determined who was incompetent in their engineering practice and what actions lead to this conclusion.

Last would be to allege that a professional engineer committed misconduct in the practice of engineering, contributing to the building collapse. Misconduct is defined in 61G15-19.001(6) (a) through (s). Of all of these, the most likely violations would fall in section (b), being untruthful, deceptive, or misleading in an engineering report, or (c), performing an engineering assignment when not qualified by training or experience in the practice area involved.

Though calling for culpability after a disaster may sell newspapers or get lots of website views, before beginning to discuss whether discipline of an engineer is appropriate in this case, or any other, it is necessary to understand the cause of this tragedy and all of the facts in the case. Only after that will it be appropriate to begin to discuss whether a violation of the engineering rules and statutes occurred and whether discipline should be pursued.

Whether you are a PE looking to attain required CEHs, or an engineer looking to learn something new or keep current with the latest trends in the profession, IEEE has seminars that will meet your needs.



Updates and Training on NFPA 70E-2021 Electrical Safety in the Workplace

Date: Friday - September 24th, 2021

Time: 10:00AM – 2:30PM

Location: Northside Lodge; 3325 1st Street, St. Petersburg, FL 33704

Speaker: John Leedy, P.E., President, Engineered Electric Services, LLC (EES), Member, IEEE

Cost: \$150.00 Members, \$100.00 Students, \$300 Non-Members

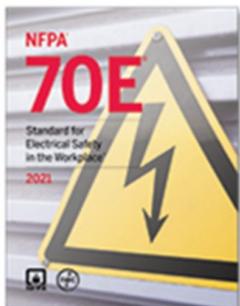
(Non-Members interested will receive a membership in IEEE)

Includes Breakfast, Lunch, and a copy of the “NFPA 70E – 2021,
Standard for Electrical Safety in the Workplace” textbook (an \$82 value)

CEU Credits: Four (4) Continuing Education Units will be awarded. Be sure to enter your name and PE number on the signup website as it appears on your license. Florida exempt provider #00015.

RSVP Online at: <https://events.vtools.ieee.org/m/277060>

Questions: Steve Antman at 813-404-4031 or Steveantman@ieee.org



Your local IEEE PES/IAS Chapter is offering this 4 hour training on Electrical Safety in the Workplace by John Leedy, President of Engineered Electric Services.

This training session will be devoted to the subject of Electrical Safety in the workplace. Topics such as “how does electrical safety and the NFPA-70E apply to the workplace” and “what is required to be compliant with the standards” will be covered. A copy of the standard, NFPA-70E-2021 Standard for Electrical Safety in the Workplace is included in the training costs.

John Leedy graduated from University of Florida in 1982 with a Bachelor of Science in Electrical Engineering with an emphasis in Power Delivery. John worked for Dillard Smith Construction as a protective relay technician. He joined General Electric as a Field Engineer, specializing in Power Substations and DC Electronic Drive Systems in Paper Mills as well as Project Management of Paper Machine Drive System retrofits and substation construction. John left GE to join the family business, Leedy Electric Corp, in 1987. He earned his Professional Registered Electrical Engineering certification for the State of Florida, Georgia and Texas and his Masters in Engineering Management from the University of South Florida in 2002

Along with several other career related certifications earned since being with Engineered Electric Services, (formerly Leedy Electric Corp)., he earned his Certified Power Quality Professional certification and has been working with NFPA 70E regulation since 2002, performing site Arc Flash Hazard Analysis and training management and employees on the standard. EES is located in Mulberry Florida, and has been in business since 1975, specializing in Engineering and Electrical Service for the commercial, manufacturing and industrial industries.



Information Security, Cryptography and Cryptanalysis

Date: Thursday, October 7, 2021

Time: 6:00 PM – 7:30 PM

Location: Google Meet Online - Link will be provided to Registrants

Speaker: Michael A. Mayor, MSE, PE (State of VA)

Cost: No Cost for this Presentation

CEU Credits: No CEU credits for this Presentation

RSVP Online at: <https://events.vtools.ieee.org/m/279528>

Questions: Michael Mayor at 484-524-3264 or michael.mayor@ieee.org

Abstract: The 21st Century has seen an explosion in the use of Digital Data where data containing personal identity, financial information, medical records, corporate business strategy and technical data as well as national defense data is stored and retrieved in digital form and transmitted over wireline and wireless communications links.

Data Collection activities that were once the province of States targeting other Countries are now conducted by States, Private and Criminal Organizations (and even Private Individuals) targeting all sources of private data.

Starting with key concept definitions, proceeding through a brief historical background the presentation gives a survey of overall Information and Communications Systems Security, historical encryption methods and algorithms, data sanitization methods, recovery of erased data, wireline and wireless communications security, low signature RF Systems and future encryption trends and solutions like Artificial Intelligence and Quantum Cryptography.

Biography: Michael A. Mayor is a Consulting Scientist providing services in Secure Information Systems and Secure Telecommunication Networks.

Formerly, he was Vice President / Chief Scientist, Advanced Technology Research, in the Aerospace/Communications Division of ITT Defense Electronics. In this capacity, he conducted Research & Development of Secure Mobile Wireless Communications and Emitter Geolocation Systems. The system components included: Radio Frequency Transceivers, Software Defined and Cognitive Radio Systems, Digital Receivers and Digital Signal Processing Algorithms. This extended to the application of Digital Instrumentation to System Test and Validation.

He authored six patents in Spread Spectrum Communications and Digital Instrumentation. He received the ITT Defense Electronics Engineered for Life Award, for his technical contributions in Secure Communications, Geolocation and Microelectronics.

He is a Senior Member of the IEEE and holds a Master of Science in Engineering (MSE) from the Moore School of Electrical Engineering, University of Pennsylvania. He is a Licensed Professional Engineer in the State of VA, and a member of the National Society of Professional Engineers.



Transmission Planning in the State of Florida

Date: Friday, October 13th and 14th, 2021
Time: Webinar: 1:00PM – 3:00PM (EST/EDT) each day
Speaker: Various Speakers
Location: Online – meeting invitation will be emailed to attendees prior to seminar – Please ensure your email is correct on signup page.
Cost: \$50 Members, \$100 non-Members, \$10 Students
CEU Credits: Two (2) CEU's provided for this event. Florida provider #0003849.
RSVP: Online at: <https://events.vtools.ieee.org/m/279775>
Questions: Robert DeMelo - Robert.demelo@ieee.org

Your local IEEE PES/IAS Chapter has collaborated with IEEE Orlando, the Florida Reliability Coordinating Council, and subject matter experts from utilities throughout Florida to offer the following online event:

This online webinar will cover various topics in the field of electric transmission planning within the state of Florida. The sessions will be broken up into two - 2 hours session from 1pm to 3pm on both October 13th and 14th. Speakers covering the technical topics are considered subject matter experts in their field of transmission planning. Topics will include the following:

- ◆ NERC / FERC / Regulatory Backgrounds
- ◆ NERC Transmission Planning (TPL) Standards and how they relate to Capital projects in Planning and Operations
- ◆ TPL Standards and In-depth Challenges
- ◆ TPL 001-005 Challenges
- ◆ Other NERC Reliability Standards
 - System Operating Limits (SOLs)
 - Operations Planning Standards (e.g., What is required?)
 - PRC – 023 (e.g., What does it mean? Why is it important?)
 - PRC – 026 (Stable Power Swings)
 - CIP – 014 (Physical Security Protection)
 - MOD – 25, – 26, – 27: History / Why its Important / Basics of Testing
 - PRC – 002
 - NERC Remedial Actions Schemes (RAS)
 - Under Frequency
 - ◇ What is UFLS? What is 60 Hertz? What is a rotating outage?
 - ◇ Review of past events

Interconnecting the Grid

- ◆ “How do you connect to the Grid?”
 - Open Access Transmission Tariffs
 - Interconnection Requirements and Agreements
 - Power Purchase Agreements
 - Regulatory Environments
- ◆ Basics of Interconnection Studies (e.g., Load Flow, Short Circuit, Stability, etc.)
- ◆ How are Interconnection Studies factored into Long-Term Studies?
- ◆ Challenges & Lessons Learned with Inverter Based Resources
 - Solar resources do not behave/dispatch like conventional (thermal) units
 - Lack of Inertia (e.g., Why is this important?)
 - Modeling Challenges / Testing
 - Voltage / VAR control
 - How does integrate into long range.
- ◆ Aren't Batteries the Solution?
 - Sizing / Runtime / Charging challenges
 - Regulatory issues with charging / discounts / Federal tax credits
 - Lifespan
 - Fire / Hazardous Materials



College/Early Career – Planning Florida’s High Voltage Transmission System

- Date:** Friday, October 15, 2021
- Time:** Webinar: 1:00PM – 3:00PM (EST/EDT)
- Speaker:** Various Speakers
- Location:** Online – meeting invitation will be emailed to attendees prior to seminar – Please ensure your email is correct on signup page.
- Cost:** Free
- CEU Credits:** No CEU’s provided for this event. Florida provider #0003849.
- RSVP:** Online at: <https://events.vtools.ieee.org/m/279773>
- Questions:** Robert DeMelo - Robert.demelo@ieee.org

Your local IEEE PES/IAS Chapter has collaborated with IEEE Orlando, the Florida Reliability Coordinating Council, and subject matter experts from utilities throughout Florida to offer the following online event:

Are you a college student or a graduate early in your engineering career? This webinar will be a great opportunity to get a peek into transmission planning in the state of Florida as well as a high-level overview of various power system engineering careers.

The way we think about and use electricity is changing daily with the implementation of various cutting-edge technologies such as large scale solar, energy storage, and highly efficient natural gas generation. The way utilities use these technologies and incorporate them into the grid continues to challenge those in the fields of engineering from the lab to the assembly line and from project engineering to construction, and incorporating these technologies into our large and vastly complicated electric distribution and transmission system.

The webinar will cover topics such as:

Power System Engineering Careers

- ◆ What to focus on in College
- ◆ Basics of different aspects of Power Industry:
 - ◆ Manufacturing
 - ◆ Operators (Control Centers and Generation Plants)
 - ◆ Generating Plants
 - ◆ Distribution Systems
 - ◆ Transmission Systems
 - ◆ Operations Planning
 - ◆ Transmission Planning

Basics of Transmission Planning

- ◆ Planning the Power System as a Grid
- ◆ NERC Planning Standards (TPL-001)
- ◆ Capital Planning
- ◆ Mitigation Planning (Long-Term and Operations Planning)
- ◆ Types of system analysis and software tools:
 - ◆ Load flow
 - ◆ Short Circuit
 - ◆ Stability
 - ◆ Energy Management Systems (EMS)

So You Are Not A Senior Member Yet?

We continue to announce to everyone that Senior Member Elevation is a fact of life and that this process is carried out effortlessly given the actual format that we have established allowing for multiple interviews to our candidates who can be assured to have their nomination completed by the end of this meeting. As you know, we provide you your References: one Nominator and two References and because of this, you as the candidate, do not have to do anything at all except attend the Interview meeting for 30 minutes (we will schedule it and let you know) and submit your properly formatted Resume, which must agree with the prescribed format listed in your Eligibility Letter. Just keep your jobs and education listed with Start(mm/yyyy)-End(mm/yyyy) format and include a paragraph titled "Significant Performance" where you address five years of your career, whether sequentially or not, so long as it adds up to five years, also properly formatted.

So why such fuss over these dates? Well, when the time comes for the evaluation of your career Experience at the A&A Review Panel Meeting, they need to be able to accurately judge your time in service so this must be clear to the reviewer.

Now, Let me address an issue that many of you may have seen and questioned, because I have been sending my Letters of Eligibility from my personal address toclos@live.com which may have not brought too much confidence on its content. Outlook365 sends these MailMerge emails from the Microsoft Registered account and even though I have a @IEEE.org domain account, the system does not use it or any other account for that matter. So if you have received or receive a letter from toclos@live.com it is a legitimate letter, but you are welcome to verify it.

Let us not forget our new Senior Member Candidates. We have nominated 51 candidates on July 24th 2021, comprising Life Member Section (31), Young Professionals (6) and FWCS (14) and we are hoping to get them elevated to the rank of Senior member at the upcoming August 14th meeting of the A&A Review Panel. Please join me in congratulating the following new Senior Members of IEEE and extending to them our warmest wishes for a continued successful career under their Senior Member Rank:

See List of Attendees and Approved Candidates in the next page

(Note: All Candidates Were Approved)

It is important to mention that participation by R3 in our Senior Member Program brought us the Life Members to request our assistance. Dr. G. Thomas Bellarmine, R3 Life Member Coordinator wrote to me asking to support the Life Members in their Senior Member Elevation and we just elevated 32 Life Members.

The next meeting of the A&A Review Panel will be on October 2nd, 2021, and I will post information about the Interview Meetings. Meantime, please continue to submit your requests for nomination which I will make sure that they are processed quickly.

*Hermann Amaya, SM and SMEC Chair
hermann.amaya.us@ieee.org*

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An Online Meeting was held on Saturday, August 7 to address the Senior Member Elevation Applications. The following email was received by Hermann Amaya from Mathew Plotner, Sr. Manager, Member Operations, Member and Geographic Activities:

Hello Hermann,

Thank you again for your help this past weekend. There were 566 total applications on Saturday. I manually looked up all of your nominations for your newsletter. Good news, they were all Approved. Notices should be going out shortly.

Thanks again,

Matt

| SECTION | LAST NAME | FIRST NAME | ORG | Approved | SECTION | LAST NAME | FIRST NAME | ORG | Approved |
|----------------------------|---------------|-------------|---------|----------|--------------------------------|------------|------------|-------|----------|
| Florida West Coast Section | Anderson | Robert W. | FWCS | Approved | Memphis Section | Baker | Chad | R3-LM | Approved |
| Broward Section | Arango | Mauricio | FWCS-LM | Approved | East Tennessee Section | Barhen | Jacob | R3-LM | Approved |
| Florida West Coast Section | Astrike | Neil | FWCS-LM | Approved | Florida West Coast Section | Beckwith | Thomas | R3-LM | Approved |
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| Central Tennessee Section | Garrison | Loring M. | R3 - YP | Approved | Orlando Section | Kovalsky | Leonard | R3-LM | Approved |
| R3 - YP | Hamidi | Seyed Ahmad | R3 - YP | Approved | Eastern North Carolina Section | Love | Robert | R3-LM | Approved |
| R3 - YP | Huang | Grant | R3 - YP | Approved | Columbia Section | Lundgren | Carl W. | R3-LM | Approved |
| R3 - YP | Joyner | Michael | R3 - YP | Approved | Orlando Section | Paradis | Richard | R3-LM | Approved |
| R3 - YP | Phanish | Deepa | R3 - YP | Approved | Gainesville Section | Phillips | William | R3-LM | Approved |
| R3 - YP | Zhao | Jiecheng | R3 - YP | Approved | Atlanta Section | Preble | Darel | R3-LM | Approved |
| Charlotte Section | Arnold | Todd | R3-LM | Approved | Central North Carolina Section | Rhodes | Robert | R3-LM | Approved |

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| 3/4 Page | \$110 | \$143 | \$530 | \$663 | \$925 | \$1,110 |
| Full Page | \$140 | \$182 | \$670 | \$838 | \$1,175 | \$1,410 |
| Insert / Sheet | \$200 | \$260 | \$800 | \$1,000 | \$2,000 | \$2,400 |



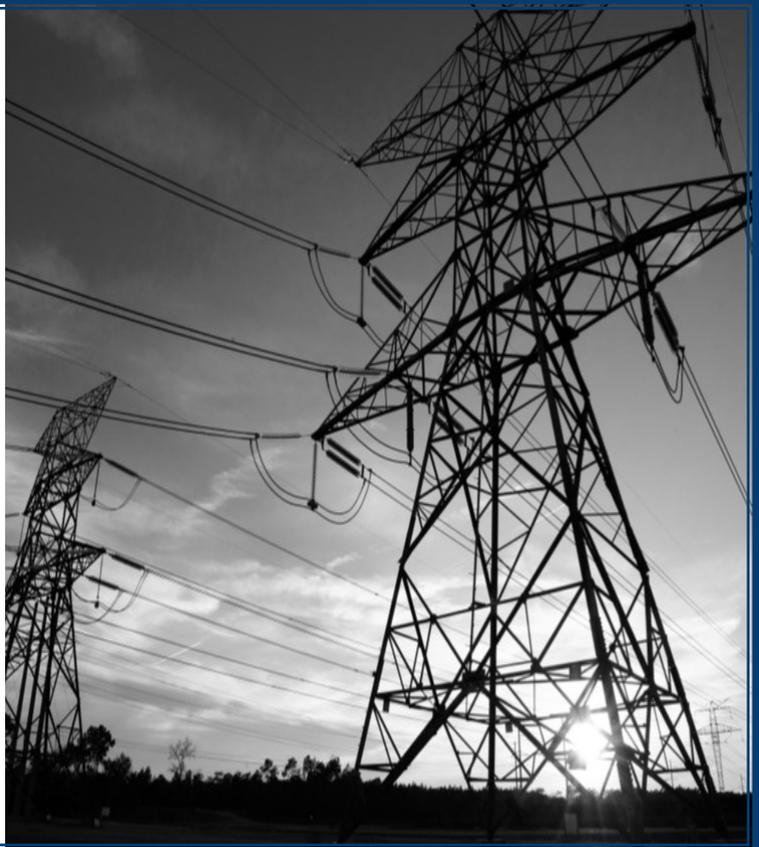
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| September 2021 - Calendar of Events (For more information see "Inside the SunCoast Signal" → Page 1) | | | | | | |
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