Who Are We?

1. PURPOSE - To foster engagement and knowledge sharing among power system professionals globally to enable the sustainable provision of electricity for all.

2. MISSION - We contribute to the betterment of power systems by enhancing the expertise of the people within it.

3. VISION - To be universally recognized as the leading global organization for all aspects of electric power systems.
USNC General Meeting

Agenda

1. USNC President’s Opening Remarks
   D. Roop
2. CIGRE International Update
   M. Heyeck
3. Awards & Recognition
   K. Lindsey / E. LaRose
4. Nominations & Appointments
   C. Root / D. Novosel
5. Treasurer’s Report
   C. Kelly
6. Administrative VP Report
   D. Russell
7. Membership
   J. Hogan
8. Women in Engineering
   B. LaRose
9. Next Generation Network
   C. Mertz
10. Technical Activities Report
    J. McDonald
11. Future CIGRE and USNC Meetings
    D. Roop
12. Other Business & Discussion
    USNC Members
Business Actions

1. Approval of minutes from 8/6/2019 Annual meeting
2. Approval of Bylaw changes recommended for CIGRE USNC
CIGRE Organization 2020-2022

1. Officers
   • President
     o Michel Augonnet (FR)
   • VP Finance (Treasurer)
     o Mike Heyeck (USA)
   • VP Technical Council Chair
     o Marcio Szechtmam (BR)
   • Secretary General
     o Philippe Adam (FR)

2. US Representative on Administrative Council & Steering Committee
   • Mike Heyeck
International Activities

1. 2021 Paris Centennial Session – August 20-25
   • Register for low rate at CIGRE-USNC.org until December 31, 2020; Increases in 2021
   • If Cancelled by CIGRE - Full Refund
   • If Member Cancels – 120 Euro fee in 2020, and 240 Euro fee in 2021
   • Hybrid MAYBE with SOME Virtual Elements

2. 2022 Paris Session Preferential Subjects Finalized

3. US #2 in Membership in 2019 behind China, but we fell to #3 in 2020 as Japan leaps ahead
• Signature publication is now digital
• electra.cigre.org
• We will promote it throughout this year and next
• No login for now but from October use your e-cigre details
• Newsletters continue..
  • PowerTalk (Events, News)
  • Leadership Circle (C-Suite)
  • Future Connections (E2E Grid Visioning)

“digital delivery for our 2nd century”
Awards & Recognition Committee

2. Elizabeth LaRose – Vice Chair – GE Power
3. Dick Wakefield – Vice Chair – Consultant
4. Clark Gellings – Consultant
5. Mike Heyeck - Consultant
6. John McDonald – GE Grid Solutions
7. Rana Mukerji – New York ISO
8. Chris Root – VELCO
9. B. Don Russell – Texas A&M University
10. Virginia Sulzberger - Consultant
Attwood Associate Award

– Citation –

“To honor the contributions and memory of Frederic Attwood of the USA, who, with J. Tribot Laspiere of France, foresaw the need for an international organization in the field of power engineering and who became the first Chairman of the U.S. National Committee upon the founding of CIGRÉ in the year 1921.”
1. Paul Myrda
USNC
Attwood Associate Awards – 2020

1. Paul Myrda
2. John Randolph
USNC
Attwood Associate Awards – 2020

1. Paul Myrda
2. John Randolph
3. Galen Rasche
1. Paul Myrda
2. John Randolph
3. Galen Rasche
4. David W. Roop
USNC
Attwood Associate Awards – 2020

1. Paul Myrda
2. John Randolph
3. Galen Rasche
4. David W. Roop
5. Chris Root
USNC
Attwood Associate Awards – 2020

1. Paul Myrda
2. John Randolph
3. Galen Rasche
4. David W. Roop
5. Chris Root
6. Dr. Jason Taylor
USNC
Philip Sporn Award — 2020

— Citation —

“For career contributions advancing electric power systems in theory, design and/or operation for the benefit of society in the United States, and for aspiring to Philip Sporn’s “Locus of Discontent” approach; i.e. always challenging the status quo to advance technology for the betterment of society.”
USNC
Philip Sporn Award – 2020

Dale Douglass
USNC
Outstanding Collective Member Award — 2020

“For outstanding leadership and continuing managerial, technical, and financial support of the activities of the U.S. National Committee and CIGRE over an extended period of time.”
USNC
Outstanding Collective Member Award — 2020
Nominations & Appointments Committee

- Chris Root – Chair – VELCO
- Damir Novosel – Vice Chair - Quanta Technology
- Chris Kelly – National Grid
- Mark McGranaghan – EPRI
- John McDonald – GE Grid Solutions
USNC Vice Presidents
(Chairs of USNC Committees)

Nominations for Term Ending (TE) Through 2021:

1. James Hogan / Allen Xi (Burns & McDonnell) – VP, Marketing & Membership
2. Chris Mertz (Dominion Energy) - Next Generation Network (NGN)
USNC Officers

Term Ending (TE) Through 2022:

1. Chris Root (VELCO) - President
2. David Roop (DWR Associates LLC) – Immediate Past President USNC
3. Mike Heyeck (Grid Group LLC) – USNC Administrative Council Rep & CIGRE Steering Committee, CIGRE International Finance (Treasurer), Past President USNC
4. Don Russell (TAMU) – Secretary; VP, Administration - Secretariat
5. Chris Kelly (National Grid) - VP, Treasurer
6. John McDonald (GE Grid Solutions) – VP, Technical Activities
7. Beth LaRose (GE Power) – VP, Awards & Recognition
8. Damir Novosel (Quanta Technology) – VP, Nominations
9. Amanda Olson (Burns & McDonnell) – Women In Engineering (WIE)
<table>
<thead>
<tr>
<th>Executive Committee Members at Large - Term Ending 2021</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Robert W. Bradish</strong> (American Electric Power)</td>
</tr>
<tr>
<td><strong>Shay Bahramirad</strong> (Commonwealth Edison)</td>
</tr>
<tr>
<td><strong>Samuel Barnes</strong> (Commonwealth Associates, Inc.)</td>
</tr>
<tr>
<td><strong>Bill Bojorquez</strong> (Hunt Power, L.P.)</td>
</tr>
<tr>
<td><strong>Robert Carritte</strong> (MPR Associates Inc.)</td>
</tr>
<tr>
<td><strong>Clem Clayton</strong> (Tennessee Valley Authority)</td>
</tr>
<tr>
<td><strong>Adrienne Collins</strong> (Southern Company Services Inc.)</td>
</tr>
<tr>
<td><strong>Jaime De La Ree</strong> (Virginia Polytechnic Institute)</td>
</tr>
<tr>
<td><strong>Ronald Duckstein</strong> (Sediver, USA)</td>
</tr>
<tr>
<td><strong>Randy Grass</strong> (POWER Engineers)</td>
</tr>
<tr>
<td><strong>Jim Hogan / Allen Xi</strong> (Burns &amp; McDonnell)</td>
</tr>
<tr>
<td><strong>Adam Keech</strong> (PJM Interconnection, LLC)</td>
</tr>
<tr>
<td><strong>Chris Kelly</strong> (National Grid)</td>
</tr>
<tr>
<td><strong>Robert D. Kirkland</strong> (Leidos)</td>
</tr>
<tr>
<td><strong>Tomas Leander</strong> (Hitachi ABB Power Grids)</td>
</tr>
<tr>
<td><strong>Keith E Lindsey</strong> (Lindsey Manufacturing Company)</td>
</tr>
<tr>
<td><strong>Arron Lewis</strong> (Black &amp; Veatch Corporation)</td>
</tr>
<tr>
<td><strong>Mark McGranaghan</strong> (Electric Power Research Institute)</td>
</tr>
<tr>
<td><strong>Rana Mukerji</strong> (New York Independent System Operator, Inc.)</td>
</tr>
<tr>
<td><strong>Sean Murphy</strong> (PingThings, Inc.)</td>
</tr>
<tr>
<td><strong>Damir Novosel</strong> (Quanta Technology)</td>
</tr>
<tr>
<td><strong>Tim Qualheim</strong> (S&amp;C Electric Company)</td>
</tr>
<tr>
<td><strong>David W. Roop</strong> (DWR Associates, LLC)</td>
</tr>
<tr>
<td><strong>Chris Root</strong> (VELCO)</td>
</tr>
<tr>
<td><strong>Sergo Sagareli</strong> (ConEdison)</td>
</tr>
<tr>
<td><strong>Werner Schweiger</strong> (Eversource Energy)</td>
</tr>
<tr>
<td><strong>Richard Shaheen</strong> (Bonneville Power Administration)</td>
</tr>
<tr>
<td><strong>Mariko Shirazi</strong> (University of Alaska – Fairbanks)</td>
</tr>
<tr>
<td><strong>Cliff Thompson</strong> (North American Substation Services)</td>
</tr>
<tr>
<td><strong>Demetrios Tziouvaras</strong> (Schweitzer Engineering Laboratories)</td>
</tr>
<tr>
<td><strong>Bill Webb</strong> (CTC Global)</td>
</tr>
<tr>
<td><strong>David Wojtczak</strong> (American Transmission Company)</td>
</tr>
</tbody>
</table>
## Executive Committee Members at Large - Nominated for Term Ending 2022

<table>
<thead>
<tr>
<th>Name</th>
<th>Organization</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kevin Curtis</td>
<td>Dominion Energy</td>
</tr>
<tr>
<td>Terrence Donnelly</td>
<td>ComEd</td>
</tr>
<tr>
<td>Johan H. Enslin</td>
<td>Clemson University</td>
</tr>
<tr>
<td>Tom Eyford</td>
<td>Oracle Utilities</td>
</tr>
<tr>
<td>Mike Heyeck</td>
<td>CIGRE(Grid Group LLC)</td>
</tr>
<tr>
<td>Elizabeth LaRose</td>
<td>GE Power</td>
</tr>
<tr>
<td>Yilu Liu</td>
<td>University of Tennessee and Oak Ridge Lab</td>
</tr>
<tr>
<td>John D. McDonald</td>
<td>GE Grid Solutions</td>
</tr>
<tr>
<td>Amanda Olson</td>
<td>Burns &amp; McDonnell</td>
</tr>
<tr>
<td>John Paserba</td>
<td>Mitsubishi Electric Power Products</td>
</tr>
<tr>
<td>Dave Poska</td>
<td>First Energy Corporation</td>
</tr>
<tr>
<td>Stewart Ramsay</td>
<td>Vanry &amp; Associates</td>
</tr>
<tr>
<td>Gregory Reed</td>
<td>University of Pittsburgh</td>
</tr>
<tr>
<td>Joe Rostron</td>
<td>Southern States, LLC</td>
</tr>
<tr>
<td>Paul Roskilly</td>
<td>Siemens Energy Management</td>
</tr>
<tr>
<td>B. Don Russell</td>
<td>Texas A&amp;M University</td>
</tr>
<tr>
<td>Eric Stein</td>
<td>PECO Energy</td>
</tr>
<tr>
<td>Gordan Van Welie</td>
<td>ISO New England</td>
</tr>
</tbody>
</table>
USNC – 2019 Finances

• **Revenues:**
  – Individual Memberships $97,125.00
  – Collective Memberships $109,500.00
  – Corporate Sponsorships $130,000.00
  – Conference Income $101,470.00

Grid of the Future

Annual Mtg., & Grid of the Future

$438,095.00

• **Expenses:**
  – Dues to Paris Office $98,986.18
  – Administration/Operations $137,754.68
  – Conference Expenditures $140,365.87
  – Travel $22,930.46
  – Marketing $3,384.75

$403,421.94
USNC – Financial Summary – 2019

(audited and closed)

<table>
<thead>
<tr>
<th></th>
<th>Budget</th>
<th>Actual</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revenues</td>
<td>$ 488,000.00</td>
<td>$ 438,095.00</td>
</tr>
<tr>
<td>Expenses</td>
<td>$ 443,267.00</td>
<td>$ 403,421.94</td>
</tr>
<tr>
<td>Net Income</td>
<td>$ 44,733.00</td>
<td>$ 34,673.06</td>
</tr>
</tbody>
</table>

Investments:

Certificates of Deposit: $ 287,472.76
2019 Expense Breakdown

- Conference Expenses - $140,365.87
- Conference Member Fees - $98,986.18
- Administration & Operations - $137,754.68
- Officer and Staff travel - $22,930.46
- Marketing - $3,384.75
### USNC Membership

<table>
<thead>
<tr>
<th></th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
<th>2019</th>
<th>2020*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Individual</td>
<td>525</td>
<td>608</td>
<td>548</td>
<td>622</td>
<td>839</td>
<td>840</td>
</tr>
<tr>
<td>Collective</td>
<td>45</td>
<td>57</td>
<td>55</td>
<td>51</td>
<td>53</td>
<td>48</td>
</tr>
<tr>
<td>Principal</td>
<td>(27)</td>
<td>(29)</td>
<td>(26)</td>
<td>(25)</td>
<td>(24)</td>
<td>(24)</td>
</tr>
<tr>
<td>Sustaining</td>
<td>(5)</td>
<td>(5)</td>
<td>(8)</td>
<td>(8)</td>
<td>(10)</td>
<td>(9)</td>
</tr>
<tr>
<td>Patron</td>
<td>(8)</td>
<td>(9)</td>
<td>(8)</td>
<td>(5)</td>
<td>(6)</td>
<td>(6)</td>
</tr>
<tr>
<td>Educational</td>
<td>(4)</td>
<td>(14)</td>
<td>(13)</td>
<td>(13)</td>
<td>(13)</td>
<td>(9)</td>
</tr>
</tbody>
</table>

* 2020 Data as of October 1, 2020
<table>
<thead>
<tr>
<th>Patron Members (6)</th>
<th>Sustaining Members (9)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hitachi ABB Power Grids</td>
<td>Burns &amp; McDonnell</td>
</tr>
<tr>
<td>Dominion Energy</td>
<td>ConEdison</td>
</tr>
<tr>
<td></td>
<td>National Grid USA</td>
</tr>
<tr>
<td></td>
<td>S&amp;C Electric Co.</td>
</tr>
<tr>
<td></td>
<td>AEP Service Corporation</td>
</tr>
<tr>
<td></td>
<td>Commonwealth Associates, Inc.</td>
</tr>
<tr>
<td></td>
<td>Eversource Energy</td>
</tr>
<tr>
<td></td>
<td>Lindsey Manufacturing Co.</td>
</tr>
<tr>
<td></td>
<td>New York ISO</td>
</tr>
</tbody>
</table>
Collective – Members 2020 (to date)
Principal Members (24)

American Transmission Co. (ATC)  Black & Veatch
Bonneville Power Administration  Commonwealth Edison
CTC Global  First Energy Corp.
Hunt Power  Leidos
Mitsubishi Electric Power Products  MPR Associates, Inc.
North American Substation Services  PECO Energy
PingThings  PJM Interconnections
POWER Engineers, Inc.  Power Systems Consultants
Quanta Services  Schweitzer Engineering Laboratories
Sediver USA  Siemens Energy, Inc.
Southern Company  Southern States LLC
Vanry + Associates  VELCO
Collective – Members 2020 (to date)

Educational Members (9)

Clemson University
Kansas State University
Missouri University of Science & Technology
Texas A&M University
University of Alaska-Fairbanks
University of Pittsburgh
University of Tennessee
USACE Technical Library
Virginia Polytechnic Institute and State University
Membership Approach

- Experienced Members
- Younger Members
- Collective Members
Younger Member Strategy

1. Utilize IEEE Student Chapters
2. Propose CIGRE Ambassador Role
   • Promotes CIGRE at Colleges & Universities
   • Creates Leadership Positions
   • Encourages attendance at GOTF & Paris Session
   • Support from industry with Speakers, Presentations, and Tours
3. Engage NGN to drive initiative
4. Support from Collective Members
**Collective Membership Strategy**

1. Engage Executive Committee
   - Identify Companies
   - Assign Champion
2. Provide Collateral
3. Provide Talking Points

**Experience Workforce Strategy**

1. Encourage from Collective Members
2. Use existing network to promote membership
   - Professional Societies
   - Webinars and Conferences
   - Social Media
Marketing Strategy

1. Author Papers
2. Present Conferences
3. Sponsor Webinars
4. Promote on Social Media
US National Committee WiE

• Integrated into US Grid of The Future events:
  - 2019 Breakfast panel highlighting diversity
  - Engagement survey:
    o Focus on career challenges and retention
    o 81% of companies have organized, diversity, inclusion or affinity networks
    o Flexible work arrangements are highly desired
    o Work challenge, ability to innovate and the impact to society are why people stay in the power industry

• Promoting diversity with the Next Generation Network → ~45% of US NGN executive committee are women!

• US Women in CIGRE
  • ~10% of US Executive Committee
  • ~32 Experts hold 46 SC/WG/NGN positions; 4 WG Conveners
• Contact: Beth LaRose, Elizabeth.larose@ge.com

Adrianne Collins-Southern Company Services (right) and Mark McVey-Dominion Energy (left) moderated a panel with (l-r) Elizabeth Chu, GE Renewable Energy, Tricia Breeger, Mitsubishi Electric Power Products and Chris Root, Vermont Electric Power Co.
Next Generation Network (NGN)
# USNC NGN Executive Committee

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Chair</strong></td>
<td>Chris Mertz</td>
</tr>
<tr>
<td><strong>Events</strong></td>
<td></td>
</tr>
<tr>
<td>Grid of the Future, international colloquium</td>
<td>Alyssa Blumenthal</td>
</tr>
<tr>
<td><strong>International Collaboration</strong></td>
<td>Anthony Giacomoni, Natalie Tacka, Cam VanLeuven</td>
</tr>
<tr>
<td><strong>Marketing</strong></td>
<td>Jenny Erwin, Joseph (JJ) Petti</td>
</tr>
<tr>
<td>External Focus</td>
<td></td>
</tr>
<tr>
<td><strong>Membership</strong></td>
<td>Mallory Droge, Morgan Hoffmann</td>
</tr>
<tr>
<td>Internal Focus</td>
<td></td>
</tr>
<tr>
<td><strong>Mentoring</strong></td>
<td>David Roop</td>
</tr>
<tr>
<td>Working group correspondence</td>
<td></td>
</tr>
<tr>
<td><strong>Professional Development</strong></td>
<td>Travis Heintzelman</td>
</tr>
<tr>
<td>Paper competition</td>
<td></td>
</tr>
<tr>
<td><strong>Professional Development</strong></td>
<td>Hassaan Idrees</td>
</tr>
<tr>
<td>Webinars</td>
<td></td>
</tr>
<tr>
<td><strong>Social Media</strong></td>
<td>Rebecca Hilderbrand</td>
</tr>
<tr>
<td><strong>Members-At-Large</strong></td>
<td>Amanda Olson, Deepak Ramasubramanian</td>
</tr>
</tbody>
</table>
Current Projects

What we are presently working on!
- Social Media Outreach
- Student Membership Initiative
- Paper Competition
- Webinars

Areas for International collaboration:
- Professional development events
  (Technical Sessions/Trainings/Webinars)
Challenges:

Keeping members engaged.
Challenges:

NGN member tracking.
Challenges:
NGN member tracking.
Challenges:

NGN member tracking.
Upcoming Projects

In the project pipeline!

• Two Webinar Series
  – Focus on Professional Development
  – Focus on Technical Development

• Explore Conventional Mentorship Program

• USNC Leading Effort on Coordinating the 2021 NGN Presentation Showcase for the 2021 CIGRE Centennial Session
Technical Activities Committee

- USNC Representatives to CIGRE Study Committees & Appointment Dates
- USNC Synopses Selection Process
- GOTF Paper Submission and Evaluation
- Working Groups/Task Forces Member Selection Process
- CIGRE WG and Convener Origins
- Ladies in CIGRE WGs Origins
- Ladies WG Convener Origins
U.S. Representatives to CIGRE Study Committees & Appointment Dates

• A1-Bill Moore (EPRI) - 2014
• A2-Mike Lamb (Dominion Energy) – 2018
• A3-Albert Livshitz (CE Power) – 2018
• B1-Rusty Bascom (Electrical Consulting Engineers, P.C.) – 2020
• B2-Erik Ruggeri (POWER Engineers, Inc.) – 2020
• B3-George Becker (POWER Engineers, Inc.) – 2020
• B4-Neil Kirby (GE Grid Solutions) – 2018
• B5-Rich Hunt (GE Grid Solutions) – 2016
U.S. Representatives to CIGRE Study Committees & Appointment Dates

• C1-Jeff Palermo (PJP Consulting) – 2016
• C2-Todd Ramey (MISO) – 2018
• C3-Randy Grass (POWER Engineers) - 2020
• C4-Theo Laughner (PowerGrid-RX Inc.) - 2014
• C5-Adam Keech (PJM Interconnection) - 2014
• C6-Jason Taylor (EPRI) – 2016
• D1-Luke Van der Zel (EPRI) – 2018
• D2-Chen-Ching Liu (Virginia Tech) – 2020
U.S. Additional Members to CIGRE Study Committees & Appointment Dates

• A1-Hugh Zhu (Consultant) - 2018
• A2-None
• A3-Brian O’Neil (RMS Energy Co., LLC) - 2020
• B1-Mohammad Pasha (United Illuminating) - 2014
• B2-Doug Proctor (Proctor Engineering) – 2018
• B3-None
• B4-David Roop (MEPPI) – 2020
• B5-Mladen Kezunovic (Texas A&M University) – 2018
U.S. Additional Members to CIGRE Study Committees & Appointment Dates

- C1-None
- C2-None
- C3-None
- C4-Gaurav Singh (EPRI) - 2020
- C5-Jeff Bladen (MISO) - 2020
- C6-Sundar Venkataraman (GE Power) – 2018
- D1-Bill Larzelere (Evergreen High Voltage) – 2018
- D2-None
2020 Synopses Selection Process

1. 75 Abstracts Received and Forwarded to USNC Study Committee Reps for their Advisory Committee Review (47 Received for 2018; 48 Received for 2016)

2. Abstracts Reviewed and Scored with Following Criteria:
   • Relevance to SC Preferential Subjects
   • Technical Content
   • Clarity of Synopsis
   • Avoid Commercialism

3. Abstract Recommendations Combined and Overall Ranking Created with the Following Criteria:
   • Balance Between SCs and Preferential Subjects
   • Highest Recommendations of Reviewers
   • International, National and Additional Commitment Allotments Requirements

4. 60 Synopses Submitted to Paris (Acceptance Notification on October 15)

5. Historical Acceptance Rate: 27/30 (90%) Accepted for 2018, 93% for 2016, 87% for 2014, 83% for 2012
CIGRE USNC 2021 Grid of the Future (GOTF) Paper Process

• Call For Papers
  – Theme: Technology for the 21\textsuperscript{st} Century Electric Utility
• No Abstract Step – Full Papers Only
• Use Paper Preparation Template
GOTF Paper Evaluation Process

• Submitted Papers forwarded to USNC Study Committee Reps for their Advisory Committee Review

• Evaluation Criteria
  - Novel and Innovative Technical Content (Concept with Implementation Results)
  - Clarity of Paper
  - No Commercialism
  - Adherence to Required Formatting (Use Paper Preparation Template)
Working Groups/Task Forces
Member Selection Process

• Interested candidates must have Individual Member dues paid and send CV
• Obtain email address for new WG Convener and submit candidates’ CVs directly to Convener
• Request Convener to confirm candidates’ membership
• If no USNC candidates interested in a new WG, will ask new WG Convener for knowledge of US experts, and will contact them to see if they are interested in joining
• If more than two candidates are interested in same WG, set up a “Shadow or Mirror WG” within the USNC
Synthesis of the 2018 Review

20 first countries

Experts

WG positions
Working Group Conveners’ Origins

On Jan. 1, 2019

33 countries provide WG Conveners
Place of Women in CIGRE

Ladies in CIGRE WGs

25 first countries

Experts F  Positions F  Rate ladies/total country experts
Place of Women in CIGRE

Ladies Conveners

FR  US  CN  DK  DE  GB  IE  NL  BE  ES  FI
Future CIGRE Meetings

2020 Webinar Academy Events USNC

- CIGRE Academy Webinar, October 14, 2020, Impact of High Penetration of Inverter-based Generation on System Inertia of Networks, 11a.m. – 1 p.m. (CDT)
- CIGRE Academy Webinar, October 21, 2020, Part I, Accelerating AI on the Grid: PMU Fundamentals, noon – 2 p.m. (EDT)
- CIGRE Academy Webinar, October 28, 2020, Part II, Accelerating AI on the Grid: Intro to AI, Noon – 2 p.m. (EDT)
- CIGRE Academy Webinar, November 5, 2020, Session 1, Enabling Distributed Intelligence with the Open Field Message Bus (OpenFMB) Framework, Introduction to Standards, Business Drivers, and Industry Landscape, Noon – 2 p.m. (ET)
- CIGRE Academy Webinar, November 12, 2020, Session 2, Enabling Distributed Intelligence with the Open Field Message Bus (OpenFMB) Framework, OpenFMB Implementation Approach: Current Developments and Technology Stack, Noon – 2 p.m. (ET)

REGISTER AT
cigre-usnc.org
Free to USNC members!!
REGISTER AT
cigre-usnc.org

CIGRE Centennial Session
Paris, France, August 20 – 25, 2021
What Can You Do?

1. **Become active in Working Groups!**
   - Need Distribution Expertise as we expand in this area

2. **Invite a colleague to Join!**

3. **Join us for Webinars!**

4. **Become a Collective Member**

5. **Become a SPONSOR**
   - GOTF
   - Paris
Big thank you!

Sharon Loe
Jessica Meadors
Krista Beams

“The voice of CIGRE to our membership”