US National Committee
2019 Annual Meeting of Members
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  D. Roop for M. Heyeck
3. Awards & Recognition  K. Lindsey
4. Nominations & Appointments  C. Root
5. Treasurer’s Report  C. Kelly
6. Administrative VP Report  D. Russell
7. Next Generation Network  C. Mertz
8. Technical Activities Report  J. McDonald
9. Future CIGRE and USNC Meetings  D. Roop
10. Other Business & Discussion  USNC Members
CIGRE Organization (2019-2020)

1. Officers
   • President
     o Rob Stephen (SA) to August (Paris) 2020
   • VP Finance (Treasurer)
     o Michel Augonnet (FR) to August (Paris) 2020
   • Technical Council Chair
     o Marcio Szechtman (BR) to August (Paris) 2022
   • Secretary General
     o Philippe Adam (FR) On-Going

2. US Representative on Administrative Council & Steering Committee
   • Mike Heyeck to August (Paris) 2020
Paris 2018
Released new brand positioning and image
International Activities

1. Branding & Communications Project - On-Going
   • Paris 2018 Inauguration with New Logo, Web Content, Responsive to Tablet/Phone, And More
   • Targeted Promotions
     o Summer 2019: E2E (End-to-End) Power System Expertise
     o Fall 2019: NGN Promotion
     o Spring 2020: WIE Promotion

2. Electra Renewal Digital Platform - April 2020
   • PDF Version in 2019 (300,000 Euros/Year Savings to Fund Project) – New Platform April 2020
   • New Section (June) >> Global Connections >> Invited Authors and CEO interviews
   • New Electra Editorial Board – Mike Heyeck, Convener
Example of Electra Platform April 2020

Device responsive easy access
- Limited free
- Membership full
- Subscriber full (not e-cigre)
International Activities

3. Global Newsletters With Added Focus
   - General Newsletter (Now PowerTalk – 6 per year)
   - Leadership Circle (CEO Audience – 3 per year)
   - Future Connections (For Members – Sept 2019 – Future Grid Articles – 3 per year)
   - Global Briefs (2-Page Articles with Newsletters)

   - Paris 2020 Theme - Past and Prelude to CIGRE’s 2nd Century
   - Paris 2022 Theme - CIGRE’s 2nd Century
   - Themes Not Final
Distributed energy resource saturation an issue?

CIGRE has the real world proven solutions you need, find out more: cigre.org/endtoend
CIGRE Membership in 2018 (30 first NCs)

US # 2 !
CIGRE Student Memberships in 2018

2018 CIGRE Student Members (top 30)

US Needs to Improve from # 10
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
USNC
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.”
USNC
Attwood Associate Awards – 2019

1. Michael Beehler
2. Neil M. Kirby
3. Amanda Olson
4. Stewart M. Ramsay
5. Harley W. Wilson
“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.”
1. Mladen Kezunovic
2. Willis S. White
USNC
Outstanding Collective Member Award — 2019

“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 — 2019

Texas A&M University
College of Engineering
USNC
Outstanding Collective Member Award — 2019

PJM Interconnection, LLC
Nominations & Appointments Committee

1. Chris Root – Chair – VELCO
2. Chris Kelly – National Grid
3. Damir Novosel – Quanta Technology
4. Mark McGranaghan – EPRI
5. John McDonald – GE Grid Solutions
USNC Vice Presidents
(Chairs of USNC Committees)

Nominations for Term Ending (TE) Through 2021:

1. Keith Lindsey (Lindsey) - Awards & Recognition
2. James Hogan (Burns & McDonnell) - Marketing & Membership
3. Chris Root (VELCO) - Nominations & Appointments
4. Chris Mertz (Dominion Energy) - Next Generation Network
USNC Officers

Term Ending (TE) Through 2020:

1. David Roop (Dominion Energy) - President
2. Mike Heyeck (USNC) - Past President
3. Don Russell (TAMU) – Secretary; VP, Administration - Secretariat
4. Chris Kelly (National Grid) - VP, Treasurer
5. John McDonald (GE Grid Solutions) – VP, Technical Activities
# Executive Committee as Members at Large - Term Ending 2020

<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Khalid Al-Olimat</td>
<td>Ohio Northern University</td>
</tr>
<tr>
<td>Clark W. Gellings</td>
<td></td>
</tr>
<tr>
<td>Elizabeth LaRose</td>
<td>GE Power</td>
</tr>
<tr>
<td>Andrew Phillips</td>
<td>Electric Power Research Institute</td>
</tr>
<tr>
<td>Efrain O’Neill-Carrillo</td>
<td>University of Puerto Rico-Mayaguez</td>
</tr>
<tr>
<td>Dr. R. Ramakumar</td>
<td>Oklahoma State University</td>
</tr>
<tr>
<td>Kevin Rapp</td>
<td>Cargill</td>
</tr>
<tr>
<td>Paul Roskilly</td>
<td>Siemens Energy Management</td>
</tr>
<tr>
<td>Terrence Donnelly</td>
<td>ComEd</td>
</tr>
<tr>
<td>Mike Heyeck</td>
<td>CIGRE</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>Ramsay Stewart</td>
<td>Vanry &amp; Associates</td>
</tr>
<tr>
<td>Gregory Reed</td>
<td>University of Pittsburgh</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>
</tbody>
</table>
## Executive Committee as Members at Large - Nominated for Term Ending 2021

<table>
<thead>
<tr>
<th>Name</th>
<th>Company/Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Robert W. Bradish</td>
<td>American Electric Power</td>
</tr>
<tr>
<td>Samuel Barnes</td>
<td>Commonwealth Associates, Inc.</td>
</tr>
<tr>
<td>Jeanine Bowl</td>
<td>Power Systems Consultants, Inc.</td>
</tr>
<tr>
<td>Clem Clayton</td>
<td>Tennessee Valley Authority</td>
</tr>
<tr>
<td>Jaime De La Ree</td>
<td>Virginia Polytechnic Institute and State University</td>
</tr>
<tr>
<td>Randy Grass</td>
<td>POWER Engineers</td>
</tr>
<tr>
<td>Chris Kelly</td>
<td>National Grid</td>
</tr>
<tr>
<td>Tomas Leander</td>
<td>ABB Inc.</td>
</tr>
<tr>
<td>Arron Lewis</td>
<td>Black &amp; Veatch Corporation</td>
</tr>
<tr>
<td>Damir Novosel</td>
<td>Quanta Technology</td>
</tr>
<tr>
<td>Robert O’Connell</td>
<td>University of Missouri</td>
</tr>
<tr>
<td>Tim Qualheim</td>
<td>S&amp;C Electric Company</td>
</tr>
<tr>
<td>David Wojtczak</td>
<td>American Transmission Company</td>
</tr>
<tr>
<td>Werner Schweiger</td>
<td>Eversource Energy</td>
</tr>
<tr>
<td>Mariko Shirazi</td>
<td>University of Alaska–Fairbanks</td>
</tr>
<tr>
<td>Shay Bahramirad</td>
<td>Commonwealth Edison</td>
</tr>
<tr>
<td>Bill Bojorquez</td>
<td>Hunt Power, L.P.</td>
</tr>
<tr>
<td>Robert Carritte</td>
<td>MPR Associates Inc.</td>
</tr>
<tr>
<td>Adrianne Collins</td>
<td>Southern Company Services Inc.</td>
</tr>
<tr>
<td>Ronald Duckstein</td>
<td>Sediver, USA</td>
</tr>
<tr>
<td>Jim Hogan</td>
<td>Burns &amp; McDonnell</td>
</tr>
<tr>
<td>Robert D. Kirkland</td>
<td>Leidos</td>
</tr>
<tr>
<td>Keith E Lindsey</td>
<td>Lindsey Manufacturing Company</td>
</tr>
<tr>
<td>Mark McGranaghan</td>
<td>Electric Power Research Institute</td>
</tr>
<tr>
<td>Sean Murphy</td>
<td>PingThings, Inc.</td>
</tr>
<tr>
<td>Rick O’Callahan</td>
<td>First Energy Corporation</td>
</tr>
<tr>
<td>________________________________</td>
<td>______________(PJM Interconnection, LLC)</td>
</tr>
<tr>
<td>David W. Roop</td>
<td>Dominion Energy</td>
</tr>
<tr>
<td>Sergio Sagareli</td>
<td>ConEdison</td>
</tr>
<tr>
<td>Richard Shaheen</td>
<td>Bonneville Power Administration</td>
</tr>
<tr>
<td>Chris Root</td>
<td>VELCO</td>
</tr>
</tbody>
</table>
## USNC – 2018 Finances

<table>
<thead>
<tr>
<th><strong>Revenues:</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Individual Memberships</td>
<td>$89,550.00</td>
</tr>
<tr>
<td>Collective Memberships</td>
<td>$117,000.00</td>
</tr>
<tr>
<td>Corporate Sponsorships</td>
<td>$182,500.00</td>
</tr>
<tr>
<td>Conference Income</td>
<td>$410,590.00</td>
</tr>
<tr>
<td><strong>Total Revenues</strong></td>
<td><strong>$799,640.00</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Expenses:</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Dues to Paris Office</td>
<td>$93,941.86</td>
</tr>
<tr>
<td>Administration/Operations</td>
<td>$140,802.75</td>
</tr>
<tr>
<td>Conferences</td>
<td>$486,730.95</td>
</tr>
<tr>
<td>Travel</td>
<td>$52,349.91</td>
</tr>
<tr>
<td>Marketing</td>
<td>$11,636.72</td>
</tr>
<tr>
<td><strong>Total Expenses</strong></td>
<td><strong>$785,462.19</strong></td>
</tr>
</tbody>
</table>
USNC – Financial Summary – 2018

(audited and closed)

<table>
<thead>
<tr>
<th></th>
<th>Budget</th>
<th>Actual</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revenues</td>
<td>$ 776,725.00</td>
<td>$ 799,640.00</td>
</tr>
<tr>
<td>Expenses</td>
<td>$ 727,359.29</td>
<td>$ 785,462.19</td>
</tr>
<tr>
<td>Net Income</td>
<td>$ 49,365.71</td>
<td>$ 14,177.81</td>
</tr>
</tbody>
</table>

Investments:

Certificates of Deposit: $ 265,153.87
2018 Expense Breakdown

- Conference Expenses - $486,730.95
- Member Expenses - $93,941.86
- Administration & Operations - $140,802.75
- Officer and Staff travel - $52,349.91
- Marketing - $11,636.72
<table>
<thead>
<tr>
<th>Category</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
<th>2019*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Individual</td>
<td>528</td>
<td>525</td>
<td>608</td>
<td>548</td>
<td>622</td>
<td>761</td>
</tr>
<tr>
<td>Collective</td>
<td>39</td>
<td>45</td>
<td>57</td>
<td>55</td>
<td>51</td>
<td>51</td>
</tr>
<tr>
<td>Principal</td>
<td>24</td>
<td>27</td>
<td>29</td>
<td>26</td>
<td>25</td>
<td>24</td>
</tr>
<tr>
<td>Sustaining</td>
<td>7</td>
<td>5</td>
<td>5</td>
<td>8</td>
<td>8</td>
<td>9</td>
</tr>
<tr>
<td>Patron</td>
<td>8</td>
<td>8</td>
<td>9</td>
<td>8</td>
<td>5</td>
<td>6</td>
</tr>
<tr>
<td>Educational</td>
<td>0</td>
<td>4</td>
<td>14</td>
<td>13</td>
<td>13</td>
<td>12</td>
</tr>
</tbody>
</table>

* 2019 Data as of July 12, 2019
Collective – Members 2019 (to date)

Patron Members (6)

ABB
Dominion Energy
GE Grid Solutions/Power
AEP Service Corporation
EPRI
Tennessee Valley Authority

Sustaining Members (9)

Burns & McDonnell
ConEdison
ISO New England, Inc.
National Grid USA
S&C Electric Co.
Commonwealth Associates, Inc.
Eversource Energy
Lindsey Manufacturing Co.
New York ISO
Collective – Members 2019 *(to date)*

**Principal Members (24)**

| American Transmission Co. (ATC)               | Black & Veatch               |
| Bonneville Power Administration              | Cargill                      |
| 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.        |
| PSC North America                            | Quanta Services              |
| Schweitzer Engineering Laboratories          | Sediver USA                  |
| Siemens Energy, Inc.                         | Southern Company             |
| Vanry + Associates                           | VELCO                        |
Collective – Members 2019 (to date)

Educational Members (12)

Clemson University
Kansas State University
Missouri University of Science & Technology
Ohio Northern University
Ohio State University
Oklahoma State University
Texas A&M University
University of Alaska-Fairbanks
University of Pittsburgh
University of Puerto Rico-Mayaguez
University of Tennessee
Virginia Polytechnic Institute and State University
Next Generation Network (NGN)
Next Generation Network (NGN) Executive Committee

Communications:
Alyssa Blumenthal (Con Edison)

Events:
Deepak Ramasubramanian (EPRI)
Rebecca Hilderbrand (PJM)

Membership:
Mallory Droge (Burns & McDonnell)
Morgan Hoffman (Burns & McDonnell)

Professional Development:
(Hubinars)
Hassaan Idrees (Jacobs Engineering)
Joseph “JJ” Petti (Dominion Energy)

Professional Development:
(Paper Competition)
Travis Heintzelman (Burns & McDonnell)
Next Generation Network (NGN)
Executive Committee

Marketing:
Yazan Alsmadi (AEP)
Jenny Erwin (Smart Wires)

International Collaboration:
Anthony Giacomoni (PJM)
Natalie Tacka (PJM)
Cam VanLeuven (POWER Engineers)

Mentoring:
David Roop (MEPPI)
Paul Collins (Leidos)

Social Media:
Nikia Munson (Power Engineers)

Member At Large:
Mandy Olson (Burns & McDonnell)
Next Generation Network (NGN)
Focal Points

- CIGRE Global Community
- United States National Committee
- Next Generation Network

Diagram:
- Awareness
- Consideration
- Conversion
- Retention
- Loyalty
- Advocacy

Alternative Path:
- Members
- Non-Members
Next Generation Network (NGN) Activities – Events (Grid of the Future)

**NGN Tutorial**
Sunday, November 3\(^{rd}\)
1:00 – 4:00 PM

**NGN Paper Competition**
Monday, November 4\(^{th}\)
12:45 - 2:15 PM

**NGN Breakfast**
Tuesday, November 5\(^{th}\)
7:00 - 7:45 AM

**NGN Dinner**
Tuesday, November 5\(^{th}\)
5:30 - 7:30 PM
(invitation only)

**NGN Tour**
(Wednesday, November 5\(^{th}\))
Next Generation Network (NGN) Activities – Membership

Nine major CIGRE member benefits

Creating benefits in local communities and organisations the world over

01 Be prepared for the future
CIGRE’s unique structure and approach plugs members in to a

03 Inform your decisions with diverse perspectives from every corner of the globe
To make optimal power system decisions at home it is essential

Missouri S&T
Rensselaer Polytechnic Institute (RPI)
University of Minnesota
Arizona State University
CUNY Macaulay Honors College
Columbia University
University of Kansas City-Missouri (UMKC)
Kansas State
University of Missouri
Next Generation Network (NGN) Activities – International Collaboration

CIGRE Young Members Showcase
Next Generation Network (NGN) Activities – Mentoring

Old Methodology:

1. Working Group Announcement
2. Wait for an individual to contact you
3. Reach out to an individual you think may fit
4. USNC Technical Activities Chair reaches out to Convener

New Methodology:

1. NGN members fill out survey on topic and participation interest
2. Interest is noted on members profile
3. Working Group Announcement
4. Contact Individual Based on Users Profile
5. USNC Technical Activities Chair reaches out to Convener
6. Feedback on Working Group Participation
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-Mohammad Pasha (United Illuminating) – 2014
- B2-Jennifer Havel (BPA) – 2014
- B3-John Randolph (PG&E) – 2012
- 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) – 2020
- D2-Chen-Ching Liu (Virginia Tech) – 2020
U.S. Additional Members to CIGRE Study Committees & Appointment Dates

- A1-Hugh Zhu (Doble Engineering) - 2018
- A2-None
- A3-None
- B1-Rusty Bascom (Electrical Consulting Engineers) – 2018
- B2-Doug Proctor (Proctor Engineering) – 2018
- B3-None
- B4-David Roop (MEPPI) – 2018
- B5-Mladen Kezunovic (Texas A&M University) – 2018
U.S. Additional Members to CIGRE Study Committees & Appointment Dates

- C1-Russ Gentile (Sargent & Lundy) – 2018
- C2-None
- C3-Regina-Guofang Gao (ABB) – 2018 (Observer)
- C4-None
- C5-None
- 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 2020 Grid of the Future (GOTF) Paper Process

• Call For Papers
  - Theme: Technology for the 21st Century Electric Utility
• No Abstract Step – Full Papers Only – Submitted by August 9, 2020
• 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 WG” within the USNC
Synthesis of the 2018 Review

20 first countries
33 countries provide WG Conveners

On Jan. 1, 2019

Working Group Conveners’ Origins
Place of Women in CIGRE

Ladies in CIGRE WGs

25 first countries

US  FR  CA  CN  GB  BR  ES  ZA  DE  NO  NL  PT  IT  IE  SE  RO  CH  AU  JP  RU  BE  CO  IN  RS  MY

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

2019 Events

GOTF – Atlanta, GA., November 3 – 6

*Paper Submittals Due*

(Host – Southern Company)

REGISTER AT
cigre-usnc.org
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. **Become a Collective Member**

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

Sharon Loe
Jessica Meadors

“The voice of CIGRE to our membership”