U.S. National Committee of CIGRE

Annual Meeting of Members

July 18, 2017

Chicago, IL
Who Are We?

• Mission
  – “To be the world’s foremost collaborative technical reference organization for all aspects of electric power systems”.

• Vision
  – “To be universally recognized as the leading global organization for all aspects of electric power systems”.
USNC General Meeting

Agenda

• USNC President’s Opening Remarks  D. Roop
• CIGRÉ Secretary General Remarks  P. Adam
• CIGRÉ International Update  M. Heyeck
• Awards & Recognition  K. Lindsey
• Nominations & Appointments  C. Root
• Treasurer’s Report  C. Kelly
• Administrative VP Report  B. D. Russell
• Marketing & Membership Report  M. Beehler
• Next Generation Network  A. Olson
• Technical Activities Report  J. McDonald
• Future CIGRÉ and USNC Meetings  D. Roop
• Other Business & Discussion  USNC Members
CIGRE Organization (2017)

• Officers
  – President – Rob Stephen (SA)
  – Treasurer – Michel Augonnet (FR)
  – Technical Comm. Chair – Mark Waldron (UK)
  – Secretary General – Philippe Adam (FR)

• Steering Committee, Administrative Council
  – U.S. Rep – Mike Heyeck
Information on CIGRE activities
Governing Bodies meetings

2018 Session

2019/2021 symposia

Central Office
Governing Bodies meetings

- **Steering Committee**: meeting Dublin – 29/05 & 30/05, 2017

  Main conclusions:
  - New Study Committee Chairs in 2018
  - Election of the TC Chair for 2018-2022 (2024)
  - Brand & marketing strategy (Task Force)
  - Expanding CIGRE into the whole value chain of Electric Power Systems (Task Force)
  - Preparation of the 2018 Session (opening ceremony, opening panel)
  - Finances

- **Next meetings**:
  - Steering Committee: Cape Town (ZA) – 6, 7 & 8 November 2017 with Technical Council
  - Administrative Council meeting: Auckland (NZ) – 11 & 12 September 2017, adjacent to AORC technical meeting
Receipt of synopses: 30 June 2017

16 tutorials: from Monday to Thursday in a dedicated room (380 seats); free registration

Forum for CEOs

Spontaneous contributions through CIGRE KMS

Women in Engineering forum

New APP (more features)

Soirée: Cité de la Mode et du Design
2019/2021 symposia

- Symposium in Aalborg: «Going offshore – Challenges of the future power supergrid» with C4 (leading), B1, B2, B4, C1 and C2, from 3rd June 2019 to 6th June 2019

- Symposium in Chengdu (China): «Distribution including smart substations» with C6/B3 (leading), C5, A2, C3, D2 and B5, from 20th to 25th September 2019,

- 2021 Symposium in Slovenia: “Challenges of system performances in energy transition framework - Re-powering markets and Low emission technologies”, in May/June

- 2021 Symposium in Japan: “Distribution system-related technologies”, in October/November
<table>
<thead>
<tr>
<th>CIGRE Information system</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Online membership management tool</td>
<td>Operational</td>
</tr>
<tr>
<td>Abstracts &amp; papers management online tool</td>
<td>Operational</td>
</tr>
<tr>
<td>CIGRE events registration tool</td>
<td>Operational</td>
</tr>
<tr>
<td>SC membership renewal management online tool</td>
<td>Operational</td>
</tr>
<tr>
<td>Collaborative tools for SC &amp; WG</td>
<td>Operational</td>
</tr>
<tr>
<td>Electronic library improvement (e-cigre)</td>
<td>Operational</td>
</tr>
</tbody>
</table>

USNC meeting, Chicago – Sheraton Hotel, 18th July 2017
Central Office projects

- WG management online tool
- Webinar management
- Web site refurbishment
- Quality management

USNC meeting, Chicago – Sheraton Hotel, 18th July 2017
Thank you for your attention.
International Activities

• New marketing and branding effort to support CIGRE Strategic Plan and National Committees
  – CIGRE – Enabling sustainable electricity for all
  – Mission – World’s foremost collaborative technical reference organization for all aspects of electric power systems
  – Vision - Universally recognised as the leading global organisation for all aspects of electric power systems
• Strategic expansion into distribution
• Enhancing relationships with global organizations
2016 CIGRE Equivalent Membership Top 15 National Committees
Awards & Recognition Committee

- Keith Lindsey – Chair – Lindsey Mfg. Co.
- Dick Wakefield – Vice Chair – Consultant
- Clark Gellings – EPRI – Consultant
- Mike Heyeck - Consultant
- Elizabeth LaRose – GE Energy Connections
- John McDonald – GE Grid Solutions
- Rana Mukerji – New York ISO
- Chris Root – VELCO
- B. Don Russell – Texas A&M University
- Virginia Sulzberger - Consultant
Awards & Recognition – 2017

• USNC Awards (2017)
  – Attwood Associate
  – Philip Sporn
  – Outstanding Collective Member
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 high-voltage 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 – 2017

• Mark Adamiak
USNC
Attwood Associate Awards – 2017

• Mark Adamiak
• Roger C. Dugan
USNC
Attwood Associate Awards – 2017

• Mark Adamiak
• Roger C. Dugan
• Mark McGranaghan
USNC
Attwood Associate Awards – 2017

- Mark Adamiak
- Roger C. Dugan
- Mark McGranaghan
- William G. Moore
USNC
Attwood Associate Awards – 2017

- Mark Adamiak
- Roger C. Dugan
- Mark McGranaghan
- William G. Moore
- Andrew Phillips
USNC
Philip Sporn Award — 2017

– Citation –

“For cumulative career contributions to the advancement of the concept of system integration in the theory, design, and/or operation of large high-voltage electric systems in the United States.”
USNC
Philip Sporn Award — 2017

• P. Jeffrey Palermo
USNC
Outstanding Collective Member Award — 2017
USNC Outstanding Collective Member Award — 2017

Tennessee Valley Authority

“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.”
Tennessee Valley Authority

- TVA has been a USNC collective member of CIGRÉ since 1969. TVA is the USNC’s longest serving collective member and a Patron collective member since the early 1990’s to the present.
- TVA has been active on the USNC Executive Committee. From 2002 to 2007 Terry Boston served from TVA. More recently Clayton Clem has served on the Executive Committee from TVA.
- TVA has always been involved in CIGRE technical activities. Jack Chadwick from TVA was US representative to SC 34 (Power System Protection) from 1981 to 1993. More recently TVA has provided US representatives on SC C4, Ian Grant from 2006 to 2013 and Theo Laughner from 2014 to present.
USNC
Outstanding Collective Member Award — 2017

GE Energy Connections

“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.”
GE Energy Connections

• GE has been a USNC collective member of CIGRÉ since 1993 and a Patron collective member since the early 1990’s to the present.
GE has always been involved over the years in CIGRE Technical Activities. More recently, Sam Salem was SC A1 Representative from 2006 through 2013; Hamid Elahi was SC B4 Representative from 2010 through 2014; Mark Adamiak was SC B5 Representative from 2008 through 2014; Sebastian Achilles is the SC B4 Representative from 2015 through the present; Rich Hunt is the SC B5 Representative from 2015 through the present.
Nominations & Appointments Committee

- Chris Root – Chair – VELCO
- Chris Kelly – National Grid
- Damir Novosel – Quanta Technology
- Mark McGranaghan – EPRI
- John McDonald – GE Grid Solutions
USNC Vice Presidents
(Chairs of USNC Committees)
Nominations for Term Ending Through 2019

• Keith Lindsey (Lindsey) Awards & Recognition
• Mike Beehler (Burns & McDonnell) Marketing & Membership
• Chris Root (VELCO) Nominations & Appointments
• Amanda Olson (Burns & McDonnell) Next Generation Network
USNC Officers

Term Ending (TE) Through 2018:

- David Roop (Dominion Energy) - President
- Mike Heyeck (USNC) - Past President
- Don Russell (TAMU) – Secretary; VP, Administration-Secretariat
- Chris Kelly (National Grid) - VP, Treasurer
- John McDonald (GE Grid Solutions) – VP, Technical Activities
<table>
<thead>
<tr>
<th>Executive Committee as Members at Large Term Ending 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>William Ball (Southern Company)</td>
</tr>
<tr>
<td>Dr. R. Ramakumar (Oklahoma State University)</td>
</tr>
<tr>
<td>Thomas Damon (Leidos)</td>
</tr>
<tr>
<td>Stewart Ramsey (Varney &amp; Associates)</td>
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<tr>
<td>Jaime De La Ree (Virginia Tech)</td>
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<tr>
<td>Gregory Reed (University of Pittsburgh)</td>
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<tr>
<td>Valentine Emesih (Centerpoint Energy)</td>
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<tr>
<td>Paul Roskilly (Siemens Energy Management)</td>
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<tr>
<td>Clark W. Gellings (USNC)</td>
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<tr>
<td>Donald Russell (American Transmission Company)</td>
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<tr>
<td>Patrick Hogan (PG&amp;E)</td>
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<tr>
<td>Erik Takayesu (Southern California Edison)</td>
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<tr>
<td>Elizabeth LaRose (GE Energy Connections)</td>
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<tr>
<td>Sunil Talati (DNV-GL)</td>
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<tr>
<td>Yilu Lie (University of TN &amp; Oak Ridge Nat Lab)</td>
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<tr>
<td>Dick Williams (Mitsubishi Electric Power Products)</td>
</tr>
<tr>
<td>Aaron Lewis (Black &amp; Veatch Corp)</td>
</tr>
<tr>
<td>Longya Xu (Ohio State University)</td>
</tr>
<tr>
<td>Kevin Rapp (Cargill)</td>
</tr>
</tbody>
</table>
## Executive Committee as Members at Large

**Term Ending 2017**

<table>
<thead>
<tr>
<th>Name</th>
<th>Company/Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sandy Aivaliotis (Valley Group)</td>
<td>Tomas Leander (ABB, Inc.)</td>
</tr>
<tr>
<td>Khalid Al-Olimat (Ohio Northern University)</td>
<td>Rob Manning (EPRI)</td>
</tr>
<tr>
<td>Shay Bahramirad (Commonwealth Edison)</td>
<td>Mark McGranaghan (EPRI)</td>
</tr>
<tr>
<td>Samuel Barnes (Commonwealth Associates, Inc)</td>
<td>Rana Mukerji (NY-ISO)</td>
</tr>
<tr>
<td>Sanjay Bose (ConEdison)</td>
<td>Damir Novosel (Quanta)</td>
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<tr>
<td>Robert W. Bradish (American Electric Power)</td>
<td>Andy Ott (PJM Interconnection, LLC)</td>
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<tr>
<td>Carl Bridenbaugh (First Energy Corporation)</td>
<td>Tim Qualheim (S&amp;C)</td>
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<tr>
<td>Mark Caskey (Sharyland Utilities, LP)</td>
<td>Richard Shaheen (BPA)</td>
</tr>
<tr>
<td>Clayton Clem (Tennessee Valley Authority)</td>
<td>Eric Stein (Exelon)</td>
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<tr>
<td>Terence Donnelly (Exelon)</td>
<td>Demetrios A.Tziouvaras (Schweitzer Engineering)</td>
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<tr>
<td>Wayne Galli (Clean Line Energy Partners, LLC)</td>
<td>Edvina Uzunovic (WPI)</td>
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<td>Tom Galloway (NATF)</td>
<td>Gordon van Welie (ISO-NE)</td>
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<tr>
<td>Randy Grass (Power Engineers)</td>
<td>Peng Zhang (UConn)</td>
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<tr>
<td>Scott Homes (Smart Wires)</td>
<td></td>
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</table>
USNC – 2016 Finances

• Revenues:
  – Individual Memberships $76,125.00
  – Collective Memberships $120,000.00
  – Corporate Sponsorships $211,250.00
    Paris Reception, Grid of the Future & Colloquium
  – Conference Income $350,169.81
    Annual Mtg., Paris, Grid of the Future & Colloquium

Revenue Total: $757,544.81

• Expenses:
  – Dues to Paris Office $81,907.91
  – Administration/Operations $88,014.23
  – Conferences $519,196.34
  – Travel $46,646.05
  – Marketing $28,670.00

Expense Total: $764,434.53
## USNC – Financial Summary – 2016

(audited and closed)

<table>
<thead>
<tr>
<th></th>
<th>Budget</th>
<th>Actual</th>
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<tbody>
<tr>
<td>Revenues</td>
<td>$ 877,025.00</td>
<td>$ 757,544.81</td>
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<tr>
<td>Expenses</td>
<td>$ 807,100.00</td>
<td>$ 764,434.53</td>
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<tr>
<td>Net Income</td>
<td>$ 69,925.00</td>
<td>$ -6,889.72</td>
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</tbody>
</table>

Investments:

| Certificates of Deposit: | $ 263,007.11 |
2016 Expense Breakdown

- Conference Expenses: $519,196.34
- Member Expenses: $81,907.91
- Administration & Operations: $88,014.23
- Officer and Staff travel: $46,646.05
- Marketing: $28,670.00
## USNC Membership

<table>
<thead>
<tr>
<th>Category</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017*</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Individual</strong></td>
<td>430</td>
<td>528</td>
<td>525</td>
<td>608</td>
<td>548</td>
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<tr>
<td><strong>“Collective”</strong></td>
<td>33</td>
<td>39</td>
<td>45</td>
<td>57</td>
<td>55</td>
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<tr>
<td>Principal</td>
<td>(20)</td>
<td>(24)</td>
<td>(27)</td>
<td>(29)</td>
<td>(26)</td>
</tr>
<tr>
<td>Sustaining</td>
<td>(5)</td>
<td>(7)</td>
<td>(5)</td>
<td>(5)</td>
<td>(8)</td>
</tr>
<tr>
<td>Patron</td>
<td>(8)</td>
<td>(8)</td>
<td>(9)</td>
<td>(9)</td>
<td>(8)</td>
</tr>
<tr>
<td>Educational</td>
<td>(4)</td>
<td>(14)</td>
<td>(13)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* 2017 Data as of June 13, 2017
Collective – Members 2017 (to date)

Patron Members (8)

ABB, Inc.  AEP Service Corporation
Commonwealth Edison  ConEdison
Dominion Energy  EPRI
GE Energy Connections  Tennessee Valley Authority

Sustaining Members (8)

Lindsey Manufacturing Co.  National Grid USA
New York ISO  North American Substation Services
PJM Interconnections  S&C Electric Co.
Collective – Members 2017 (to date)

Principal Members (26)

American Transmission Co.
Burns & McDonnell
CenterPoint Energy
CTC Global
Leidos
MPR Associates, Inc.
Pacific Gas & Electric Co.
POWER Engineers, Inc.
Schweitzer Engineering Laboratories
Sharyland Utilities, L.P.
Smart Wires Inc.
Southern Company
Vanry + Associates

Bonneville Power Adm.
Cargill
Clean Line Energy Partners
First Energy Corp.
Mitsubishi Electric Power Products
North American Transmission Forum
PECO Energy
Quanta Services
Sediver USA
Siemens Energy, Inc.
Southern California Edison
ULC Robotics
VELCO
Collective – Members 2017 (to date)

Educational Members (13)

Kansas State University
Ohio Northern University
Oklahoma State University
Texas A&M University
The Ohio State University
University of Connecticut
University of Missouri
University of Pittsburgh
University of Puerto Rico - Mayaguez
University of Tennessee
USACE Library
Virginia Polytechnic Institute and State University
Worcester Polytechnic Institute
Grid of the Future Symposium
Hilton Cleveland Downtown | Cleveland, Ohio
October 22–25, 2017

Paper Submissions & Registration Info: cigre-usnc.org/grid-of-the-future

The CIGRE U.S. National Committee and EPRI host plenaries, panels, technical papers, and tutorials in a forum for state-of-the-art innovations and practice in generation, transmission, distribution, markets, and advanced technologies.
CIGRE GOTF 728x90 lead banners on the T&D World website through May 2017

• 127,966 Impressions
• 557 Clicks
• 0.44% Click Through Rate
Audience Extension banners for March and June 2017

- 13,763 Impressions
- 50 Clicks
- 0.36% Click Through Rate
Next Generation Network (NGN)

- Early career professionals and students
- Facilitate successful transition and retention in power system industry
- Provide technical and personal development

“CIGRE, and the NGN, provides an opportunity for young engineers to engage in the electric power industry in exciting and innovative ways. As a student, the access to high quality publications and interaction with industry experts across a myriad of focus areas is simply invaluable.”

-Ryan Quint, NERC
Next Generation Network (NGN)
Activities

- Collaborate with world class experts on groundbreaking initiatives

CIGRE Working Groups

- Recognize early career accomplishments
- Prizes for winners including free Paris registration and travel stipend

Paper Competition

- Sponsored events for technical development and networking

GOTF Symposium

- Learn about varying power system and leadership topics

Webinars
“I feel that my technical background is good enough to understand, criticize, and raise questions. However, when it comes to experience, I am a graduate student with about 5 years of industry experience, while other group members have at least 15+ years of experience. I prefer to think that everybody starts one day, and this is my turn. I am glad for having this opportunity to be exposed to a worldwide group of experts in the field.”

-Marcos Netto, Working Group Corresponding Member
Next Generation Network (NGN) Paper Competition

2015

2016

NUMBER OF PARTICIPANTS

Number of Participants

0 5 10 15 20 25 30
1 2 3
Next Generation Network (NGN)
Plans for the Future

Looking Back
(2016/17 Goals):
• Continue paper competition
• Build presence on social media
• Update website

Looking Forward
(2017/18 Goals):
• Continue paper competition
• Focus heavier on social media presence
• Become involved with local Universities
# Next Generation Network (NGN) 2017 Executive Committee

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>Company</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chair</td>
<td>Mandy Olson</td>
<td>Burns &amp; McDonnell</td>
</tr>
<tr>
<td>Communications</td>
<td>Kyle Thomas</td>
<td>Dominion Energy</td>
</tr>
<tr>
<td>Secretary, newsletter, website</td>
<td></td>
<td></td>
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<tr>
<td>Events</td>
<td>Chris Mertz</td>
<td>Dominion Energy</td>
</tr>
<tr>
<td></td>
<td>Kojo Sefah</td>
<td>MISO</td>
</tr>
<tr>
<td>International Collaboration</td>
<td>Lauren Warkenthien</td>
<td>Leidos</td>
</tr>
<tr>
<td>Marketing</td>
<td>Yazan Alsmadi</td>
<td>AEP</td>
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<tr>
<td>Membership</td>
<td>Cynthia Ocasio-Hassett</td>
<td>Worley Parsons</td>
</tr>
<tr>
<td>Membership</td>
<td>Diana Lee</td>
<td>VELCO</td>
</tr>
<tr>
<td>Membership</td>
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<tr>
<td>Membership</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mentor Group</td>
<td>Diana Lee</td>
<td>VELCO</td>
</tr>
<tr>
<td>Medical</td>
<td>Saeed Kamalinia</td>
<td>S&amp;C Electric</td>
</tr>
<tr>
<td>Social Media</td>
<td>Josh Snodgrass</td>
<td>POWER Engineers</td>
</tr>
<tr>
<td>Webmaster</td>
<td>Chris Mertz</td>
<td>Dominion Energy</td>
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<tr>
<td></td>
<td>Jessica Lau</td>
<td>Orange &amp; Rockland</td>
</tr>
<tr>
<td>Members-At-Large</td>
<td>Ryan Quint</td>
<td>NERC</td>
</tr>
</tbody>
</table>
Technical Activities Committee

- U.S. Representatives to CIGRÉ Study Committees & Appointment Dates
- U.S. Synopses Submittals for the 2018 Paris Session (NCA, IA, AA)
- USNC Synopses Selection Process
- GOTF Paper Submission and Evaluation
- Working Groups/Task Forces Member Selection Process
- CIGRE WG and Convener Origins
U.S. Representatives to CIGRÉ Study Committees & Appointment Dates

- A1-Bill Moore (EPRI) - 2014
- A2-Mike Lamb (Dominion Energy Virginia) – 2016
- A3-Nenad Uzelac (G&W Electric) – 2014
- B1-Mohammad Pasha (United Illuminating) – 2014
- B2-Jennifer Havel (BPA) – 2014
- B3-John Randolph (PG&E) – 2012
- B4-Sebastian Achilles (GE Energy Connections) – 2014
- B5-Rich Hunt (GE Grid Solutions) – 2014
U.S. Representatives to CIGRÉ Study Committees & Appointment Dates

- C1-Jeff Palermo (PJP Consulting) – 2014
- C2-Todd Ramey (MISO) – 2016
- C3-Vacant
- C4-Theo Laughner (TVA) - 2014
- C5-Adam Keech (PJM Interconnection) - 2014
- C6-Jason Taylor (EPRI) – 2014
- D1-Andrew Phillips (EPRI) – 2012
- D2-Galen Rasche (EPRI) – 2012
## Synopses Selected – 2018 Session
### National Committee Allotment (NCA)

<table>
<thead>
<tr>
<th>TYPE OF ALLOTMENT (NCA, AA, IA)</th>
<th>STUDY COMMITTEE</th>
<th>PREF. SUBJECT (PS1, PS2, PS3)</th>
<th>TITLE OF THE SYNOPSIS</th>
<th>AUTHORS</th>
</tr>
</thead>
<tbody>
<tr>
<td>NCA</td>
<td>A1</td>
<td>PS1</td>
<td>Hybridizing Gas Turbine with Battery Energy Storage: Performance and Economics</td>
<td>N.W. Miller, J. Heinzmann, J. Frasier</td>
</tr>
<tr>
<td>NCA</td>
<td>A2</td>
<td>PS1</td>
<td>Design of Insulated Cables to Reduce Gassing Issues in Power Transformers</td>
<td>D. Vir, T. Golner</td>
</tr>
<tr>
<td>NCA</td>
<td>B5</td>
<td>PS1</td>
<td>IEC 61850 R-GOOSE Applications to Load Shedding Under System Emergency Conditions</td>
<td>A. Apostolov</td>
</tr>
<tr>
<td>NCA</td>
<td>C2</td>
<td>PS1</td>
<td>The Role of Fast Frequency Response in Low Inertia Power Systems</td>
<td>D. Stenclik, M. Richwine, N. Miller</td>
</tr>
<tr>
<td>NCA</td>
<td>C4</td>
<td>PS1</td>
<td>On Steady-State Voltage Standards with High-Penetration of Distributed Energy Resources</td>
<td>J. Peppanen, J. Taylor</td>
</tr>
<tr>
<td>NCA</td>
<td>D1</td>
<td>PS3</td>
<td>The Asset Health Center, Implementation of Online Monitoring and the Grid of the Future</td>
<td>R. Cornell, J. Llavona, K. Zellers, A. Sutliff, P. Chung</td>
</tr>
<tr>
<td>NCA</td>
<td>D2</td>
<td>PS3</td>
<td>A Hybrid Communications Network Approach for Advanced Applications on the Modern Grid</td>
<td>J.-P.H. Knauss</td>
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<tr>
<td>TYPE OF ALLOTMENT (NCA, AA, IA)</td>
<td>STUDY COMMITTEE</td>
<td>PREF. SUBJECT (PS1, PS2, PS3)</td>
<td>TITLE OF THE SYNOPSIS</td>
<td>AUTHORS</td>
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<tr>
<td>--------------------------------</td>
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<tr>
<td>IA</td>
<td>A3</td>
<td>PS3</td>
<td>Performance Evaluation of CO₂/Fluoronitrile Mixture at 63kA Short Circuit Current Level in Metal Enclosed (GIS and Dead Tank) High-voltage Circuit Breakers</td>
<td>V. Hermosillo, C. Gregoire, D. Vancell, J. Ozil, G. Gaudart</td>
</tr>
<tr>
<td>IA</td>
<td>A3</td>
<td>PS3</td>
<td>Vacuum Generator Circuit Breaker as a Reliable SF₆ Alternative with Reduced Life Cycle Costs for Power Plants up to 400 MW</td>
<td>P. Leufkens, R. Nayar, K.R. Venna</td>
</tr>
<tr>
<td>IA</td>
<td>B2</td>
<td>PS1</td>
<td>Reliability Based Transmission Capacity Forecasting</td>
<td>J. McCall, R. Bliss, D. Nadeau</td>
</tr>
<tr>
<td>IA</td>
<td>B2</td>
<td>PS2</td>
<td>Test Results to Confirmation of Minimum Vegetation Clearance Distance (MVCD) Standards</td>
<td>A.J. Phillips, R. Lordan, C.S. Engelbrecht</td>
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<td>IA</td>
<td>B4</td>
<td>PS1</td>
<td>Linking DC Macrogrids to Underlying AC Systems</td>
<td>L.O. Barthold, D.A. Woodford, M. Salimi</td>
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<td>IA</td>
<td>B4</td>
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<td>Converting Regional EHV AC Transmission to HVDC</td>
<td>C. Lockwood, N. Koehler, B. Mehraban, R. Adapa, M. Salimi, F. Gomez, D. Woodford</td>
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<tr>
<td>IA</td>
<td>B4</td>
<td>PS3</td>
<td>Refurbishment Strategies for Conventional SVC Stations Utilizing Modern Control Cooling and Thyristor Valves and Selective Main Circuit Replacements</td>
<td>M.A. Reynolds, B.C. Furumasu, A. Laughlin, R. Thorton, R. Broberg, A. Samadi</td>
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<td>IA</td>
<td>C5</td>
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<td>Efficient Customer Aggregation using a Receding Horizon Optimization</td>
<td>A.J. Lamadrid, T. Mount, W. Jeon, H. Lu</td>
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<td>TYPE OF ALLOTMENT (NCA, AA, IA)</td>
<td>STUDY COMMITTEE</td>
<td>PREF. SUBJECT (PS1, PS2, PS3)</td>
<td>TITLE OF THE SYNOPSIS</td>
<td>AUTHORS</td>
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<td>AA</td>
<td>A1</td>
<td>PS3</td>
<td>Forensic Analysis of Gas Turbine-generator Shaft Failures due to Possible Subsynchronous Resonance</td>
<td>J.D. Galvez, M.D. Urbina, D.J. Mader, J.B. Wisniewski</td>
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<td>AA</td>
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<td>Machine Learning Tools in Support of Transformer Diagnostics</td>
<td>L. Cheim</td>
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<td>AA</td>
<td>A2</td>
<td>PS3</td>
<td>100 Year Transformer</td>
<td>R. Fenton</td>
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<td>Developing and Using Justifiable Asset Health Indices for Tactical and Strategic Risk Management</td>
<td>S. Rhoads, J. White, T. McGrail</td>
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<td>AA</td>
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<td>Functional Testing of Digital Substations Based on IEC 61850 Process Bus</td>
<td>A. Apostolov</td>
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<td>AA</td>
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<td>PS3</td>
<td>Introducing an Automated Analysis Tool and Reproducible Workflow to Streamline Reliability Planning with Heterogeneous Investment Options</td>
<td>T. Nudell, E. Fan, A. Martin</td>
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<td>AA</td>
<td>C6</td>
<td>PS1</td>
<td>Distribution System Operator Cost Assessment</td>
<td>E.A. Paaso, S. Bahramirad</td>
</tr>
</tbody>
</table>
2018 Synopses Selection Process

1. 47 Abstracts Received and Forwarded to USNC Study Committee Reps for their Advisory Committee Review

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. 30 Synopses Submitted to Paris; 28/30 (93%) Accepted for 2016, 87% for 2014 and 83% for 2012
CIGRE USNC 2017 Grid of the Future (GOTF) Paper Process

• Call For Papers
  – Theme: Technology for the 21st Century Electric Utility
  – Symposium Scope (General Topics)
• No Abstract Step – Full Papers Only – Submitted by July 28, 2017
• 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 2016 review

top 20 countries
Working Group Conveners’ origins

34 Countries of origin of SC WG Conveners - January 1, 2017
Future CIGRÉ Meetings

2018 Events

Members Meeting – Portland, Oregon – August 7
CIGRE Paris Session – August 26 - 31
GOTF – Washington, DC, October 28 – October 31
(Host – Dominion Energy)

REGISTER AT
cigre-usnc.org
Big thank you!

Sharon Loe
Jessica Meadors

“The voice of CIGRE to our membership”