

U.S. NATIONAL COMMITTEE OF CIGRE

The National Committee of CIGRE in the United States of America is known as the U.S. National Committee (USNC). It was formed to provide a mechanism for U.S. experts to participate in CIGRE's international cooperative efforts.

Through the USNC, U.S. technical knowledge has been made available to other nations, technical knowledge from other nations has been provided to the United States, and the overall knowledge among the various national participants has been advanced.

The following historical information provides insight as to how CIGRE grew, the role of the USNC in this growth, the specific areas in which the USNC has made important contributions, and some of the members of the USNC who played important roles.

Dates	Event	
November 1921	 CIGRE formed to be a non-governmental international organization. Proposed and funded by Jean Tribot-Laspière of France in association with Frederic Attwood of the United States A.E. Kemelly of the United States was one of three Vice Presidents appointed. Frederic Attwood became the first Chairman of the U.S. National Committee. 	
November 1923	 2nd CIGRE Session. 11 U.S. delegates attended. First Study Committee appointed to study "rational use of fuel". Decision made to hold conference biennially (every two years) in Paris, France. Formation of national committees recommended. 	
1925 – 1931	CIGRE formed a number of additional study committees.	
1933 – 1939	 CIGRE Sessions continued with total number of delegates attending each biennial conference increasing. 	
1939 – 1945	World War II – CIGRE activities ceased.	
June 1946	 First post-war CIGRE session. 17 U.S. delegates attended. Agreed to resume biennial (every two years) meetings. 	
July 1951	 CIGRE Administrative Council of 35 members met. Philip Sporn was one of the Vice Presidents and represented the U.S. 	
1951	Relay Protection Research Group organized with 39 persons from 11 countries, including the U.S.	
1956	 S.B. Crary of GE chaired the Study Committee on Stability and provided information on the research underway in the U.S. 	





1050			
1958	16 th CIGRE Session, 39 U.S. delegates attended.		
1960	18 th CIGRE Session.		
1962	19 th CIGRE Session, 52 U.S. delegates attended.		
1964	 CIGRE Administrative Council created a special six-person Working Committee on the preparation of new statutes for CIGRE. Philip Sporn represented the U.S. 		
June 1964	 20th CIGRE Session held. A key meeting was that of the EHV AC Transmission Study Committee, chaired by Philip Sporn. Sporn also presented arguments to the Administrative Council to increase the number of papers allocated to the United States. 		
June 1966	21 st CIGRE Session, 86 U.S. delegates attended.		
August 1968	22 nd CIGRE Session, 81 U.S. delegates attended.		
May 1969	 CIGRE Executive Committee and Administrative Council met in Italy where Pope Paul VI welcomed them and noted the important role of CIGRE in international cooperation and peacekeeping. CIGRE Study Committee on Overhead Lines met in Richmond, Virginia with emphasis on the VEPCO 500kV experience. (VEPCO was the predecessor of what is known as Dominion Energy Virginia today). 		
August 1970	 23rd CIGRE Session, 79 delegates attended. Paper "Initial Experience on the 765kV System of AEP" was an important contribution. 		
1971	Study Committee 32, System Planning and Operation, chaired by Charles Concordia, met in Philadelphia, PA (United States).		
August 1972	 24th CIGRE Session. Focus increased greatly on development of power grids. 		
August 1974	25 th CIGRE Session, 87 U.S. delegates attended.		
August 1976	 26th CIGRE Session (UNESCO building). 89 U.S. delegates attended. 		
August 1978	 27th CIGRE Session (UNESCO building). 99 U.S. delegates attended. Round table on "The Transmission Boundaries of the XXI Century" was a key factor in which Lionel O. Barthold represented the United States. 		
August 1980	 28th CIGRE Session (U. of Paris – Assas Law School). 88 U.S. delegates attended. Major reports on voltages above 1000kV included Bonneville Power Administration's presentation on results of tests on a 1200kV transmission line. 		
September 1982	 29th CIGRE Session (U. of Paris – Assas Law School). 95 U.S. delegates attended. Significant reorganization of CIGRE Study Committees. 		





September 1984	 30th CIGRE Session (U. of Paris – Assas Law School). 100 U.S. delegates attended. Structure of Administrative Council revised. Willis S. White, Jr. (USNC) elected President of CIGRE. 	
November 1985	Africon Conference held in Dakar, Senegal, with several presentations from the United States on development of power systems in Africa, including one by Joseph Swidler, former Chairman of the U.S. Federal Power Commission.	
September 1986	 31st CIGRE Session (U. of Paris – Assas Law School). 85 U.S. delegates attended. 	
August 1988	 32nd CIGRE Session (Palais des Congrès). 127 U.S. delegates attended. 	
1989	 "CIGRE 2000" Committee approved with Lionel O. Barthold representing the United States. 	
August 1990	 33rd CIGRE Session (Palais des Congrès). 154 U.S. delegates attended. 	
September 1991	CIGRE Study Committee on Overhead Lines met in Fort Worth, Texas.	
August 1992	 34th CIGRE Session (Palais des Congrès). 144 U.S. delegates attended. 	
August 1994	 35th CIGRE Session (Palais des Congrès) 119 U.S. delegates attended. Attention increasingly placed on systems of developing nations. Session combines with CIGRE-EXPO '94 for first time for presentations of equipment and source by more than 50 companies. This was the first time CIGRE deviated from it past strong history of no commercial activities in presentations. 	
May 1995	 Major colloquium held in Tokyo, Japan on "Organizational and Legal Actions for the Development of Power Systems". Major reports were made by John A. Casazza of the United States. 	
August 1996	 36th CIGRE Session (Palais des Congrès). 100 U.S. delegates attended. 	
August 1998	 37th CIGRE Session (Palais des Congrès). 105 U.S. delegates attended. 	
1999	CIGRE Study Committee on Switching Equipment and on Rotating Machines met in the United States.	
August 2000	 38th CIGRE Session (Palais des Congrès). 97 U.S. delegates attended 	
June 2001	CIGRE Study Committee on Power System Planning & Development met in the United States (Washington, D.C.).	
August 2002	39 th CIGRE Session (Palais des Congrès).	





	100 U.S. delegates attended.	
October 2003	 The Electric Power Research Institute, on behalf of the USNC, hosted the meetings of the CIGRE Executive Committee and the CIGRE Administrative Council in the United States (Palo Alto, CA). 	
August 2004	 40th CIGRE Session (Palais des Congrès). 100 U.S. delegates attended. 	
August 2006	 41st CIGRE Session (Palais des Congrès). 118 U.S. delegates attended. 	
August 2008	 42nd CIGRE Session (Palais des Congrès). 117 U.S. delegates attended. 	
August 2010	 43rd CIGRE Session (Palais des Congrès). 154 U.S. delegates attended. 	
May 2011	The 2011 IEEE PES Substations Committee Annual Meeting was a Joint Meeting with CIGRE SC B3 (Substations) in Chicago on May 15 – 19. Activities included the 1 st Joint IEEE-CIGRE Round Table on On-Line Condition Monitoring, and a dinner hosted by the CIGRE USNC.	
March 2012	 CIGRE Colloquium on HVDC and Power Electronic Systems (San Francisco, CA., United States). 	
August 2012	 44th CIGRE Session (Palais des Congrès). 199 U.S. delegates attended. 	
October 2012	1st Grid of the Future™ (GOTF) (Kansas City, MO., United States).	
October 2013	2 nd GOTF (Boston, MA., United States).	
May 2014	 CIGRE Steering Committee hosted by EPRI on behalf of the U.S. National Committee A USA Day was hosted at the same event in Charlotte, N.C., United States. 	
August 2014	 45th CIGRE Session (Palais des Congrès). 174 U.S. delegates attended. 	
October 2014	3 rd GOTF (Houston, TX. United States).	
2016	 USNC Individual Members reached a milestone of 608 members. Collective Membership reached a milestone of 57 members. 	
October 2015	4 th GOTF (Chicago, IL., United States).	
August 2016	 46th CIGRE Session (Palais des Congrès). 237 U.S. delegates attended. 	
October 2016	5 th GOTF (Philadelphia, PA., United States).	
November 2016	1st CIGRE International Colloquium on the Evolution of Power System Planning to Support Connection of Generation, Distributed Resources and Alternate Technologies.	
October 2017	6 th CIGRE GOTF (Cleveland, OH., United States).	





	CIGRE USNC sign Memorandum of Understanding with EPRI	
April 2018	CIGRE USNC sign Memorandum of Understanding with IEEE	
August 2018	47 th CIGRE Session (Palais des Congrès).	
	188 U.S. delegates attended.	
	 CIGRE brand changed from International Council on Large Electric Systems to now include distribution or end-to-end (E2E) power system expertise under the new CIGRE logo and uniform worldwide brand due to the evolution of power systems 	
October 2018	7 th GOTF (Reston, Virginia, United States)(First WIE event at Conference).	
	 The U.S. National Committee became the 2nd largest National Committee within CIGRE. 	
	293 registrants for the conference.	
November 2019	8 th GOTF (Atlanta, GA., United States).	
August 2020	 48th CIGRE Session (1st e-Session due to COVID-19 pandemic impacting the world). 	
	Michael Heyeck (USNC) elected VP Finance of CIGRE	
October – December 2020	USNC Webinar Series due to the postponement of the GOTF conference.	
2021	CIGRE will celebrate its Centennial (100 years!)	
	CIGRE USNC will celebrate as one of founding members of CIGRE	

A general meeting of the membership of the USNC is held once a year, usually coincident with and at the location of the annual meeting of the IEEE Power and Energy Society. At this meeting, reports are given on the administrative status and activities of the USNC to the membership and elections of officers take place. This general meeting is followed by a meeting of the USNC Executive Committee, which is comprised of the officers of the USNC. The annual USNC general meetings were initiated in the 1960s and began performing some of the functions (such as the election of USNC officers) previously performed by the earlier Executive Committees, which had previously directed all activities of the USNC.

In association with the biennial CIGRE Sessions, formal receptions are held in the evenings by several CIGRE national committees often at historic locations. Typically, the National Committee of France and various other national committees each hold receptions on different nights of the conference week that provide opportunities to meet delegates from various countries. The USNC has sponsored a reception at each CIGRE biennial conference, with one of the most memorable occurring in 1976, the U.S.'s bicentennial year, at the U.S. Embassy and its gardens. Unfortunately, the reception size and security issues now prevent holding the USNC reception at this location. In the last several conference years, the USNC reception has been held at the Pavillon Gabriel on 5, avenue Gabriel, Paris. The USNC also holds an information meeting for its participating members in Paris, France, at the Palais des Congrès conference facility just prior to the opening of the CIGRE Session.





Grid of the Future™ Symposium

The US National Committee joined with the Electric Power Research Institute (EPRI) to begin in 2012 an annual Symposium called the Grid of the Future[™] (GOTF). The GOTF was uniquely framed to capture the best of a technical conference with papers and presentations, and the best of the usual programs of keynotes and panel sessions. The goal of these conferences was to connect executives with those innovative persons young in their career to bring forward ideas, applications and practice on technology and policy drivers for the Grid of the Future [™]. Above is a listing of each of the GOTF Symposia that typically attracted 200-300 people. In 2012, the USNC began archiving the papers and presentations from the CIGRE USNC Grid of the Future Symposium on the CIGRE USNC website, https://cigre-usnc.org/. In 2020, The Grid of the Future [™] was postponed due to the on-going COVID-19 virus affecting the world. In lieu of this conference, virtual Webinars were held on various topics to support the U.S. members. The U.S. National Committee intends to hold the 2021 Grid of the Future [™] either virtually or in-person again.

President of the U.S. National Committee

The leadership of the USNC is provided by its Chairs or presidents, its Executive Committee, and its Technical Committee. Key among its officers was Frederic Attwood who served for 33 years as President and Philip Sporn who served for 18 years. The USNC presidents often were industry leaders and chief executives in their companies. Their positions enabled them to enlist both the necessary financial support from industry and dues paying individual members. They also had sufficient stature to represent the USNC in the international committee activities of CIGRE. The importance of the roles of Frederic Attwood and Philip Sporn, and the high regard with which they were held, cannot be over emphasized.

Presidents of the United States National Committee (1921 – Present)

1921 – 1954	Frederic Attwood (Retired as Vice President & Director, Ohio Brass Company)
1954 – 1972	Philip Sporn (President – American Electric Power)
1973 – 1978	William R. Gould (President – Southern California Edison)
1979 – 1981	W. Donham Crawford (President – Gulf States Utilities)
1982 – 1984	Willis S. White, Jr. (President – American Electric Power)
1985 – 1986	Harold W. Sonn (President – Public Service Electric & Gas)
1987 – 1992	George A. Maneatis (President – Pacific Gas and Electric/Consultant)
1993 – 1998	Harold N. Scherer, Jr. (President – Commonwealth Electric Company/Consultant)
1999 – 2004	Hans E. Weinrich (Vice President – ABB Power T&D/Consultant)
2005 - 2010	Clark W. Gellings (Vice President – EPRI/EPRI Fellow)
2011 – 2016	Michael Heyeck (Senior Vice President, Transmission – American Electric Power)





Presidents of the United States National Committee (1921 – Present)

2017 – 2021	David W. Roop (Director – Electric Transmission Field Ops, Dominion Energy)
2021 - Present	Chris Root (Chief Operating Officer – VELCo)

The President of the USNC also serves as the Chairman of the Executive Committee of the USNC, the governing body of the USNC. The members of the Executive Committee are elected by the USNC's general membership and currently include a President, Secretary, Treasurer, the immediate Past President and 16 Vice Presidents. Each Executive Committee member serves a two-year term and may be re-elected for successive two-year terms. However, no person who has served as President for three successive two-year terms is eligible to be elected until at least two years have elapsed.

USNC Technical Committee, Secretary and Treasurer

Much of the technical operation of the USNC is the responsibility of its Technical Committee. One of the USNC Vice Presidents is appointed by the USNC President with the approval of the Executive Committee to serve as Chairman of the USNC Technical Committee. The Technical Committee membership is comprised of those USNC members that serve as USNC representatives to the CIGRE Study Committees. Membership in the Technical Committee covers a broad range of industry and university technical experts. The major duties of the Technical Committee include selecting and recommending the U.S. papers to be put forth for the CIGRE Sessions, recommending to the USNC Executive Committee for its approval U.S. appointments to CIGRE Study Committees, and nominating U.S. subject matter experts to participate in CIGRE Working Groups.

Chairs of the US Technical Committee (1964 – Present)

1964-1972	Daniel T. Braymer (Editor - Electrical World)
1972-1980	John A. Casazza (Vice President – Public Service Electric & Gas)
1980-1984	Andrew F. Corey (Vice President - Boston Edison)
1985-1990	Harold N. Scherer, Jr. (Sr. Vice President – American Electric Power)
1991-1998	Thomas E. Sharp (Principal Engineer – Public Service Electric & Gas)
1999-2003	Arun D. Phadke (Distinguished Professor - Virginia Polytechnic Institute)
2003-2008	B. Don Russell (Regents Professor, Electrical Engineering – Texas A&M University)
2009-Present	John D. McDonald (Smart Grid Business Development Leader – GE Grid Solutions)

The USNC Secretary and Treasurer functions were provided for many years by Ebasco at no charge to the USNC with Larry Mulligan serving for most years in this role, followed at Ebasco for a short time by Herbert Limmer. In 1984, Andrew F. Corry was hired as a paid general manager and held the USNC Secretary-Treasurer position until 1994. He was succeeded in 1995 by the staff at Virginia Polytechnic Institute





(contract agreement) under Professor Arun G. Phadke, USNC Secretary-Treasurer and a member of the USNC Executive Committee. The USNC Secretary-Treasurer functions were next performed over the 2000-2004 period under contract by the North American Electric Reliability Council (NERC) under Virginia C. Sulzberger, NERC's Director-Engineering and USNC Secretary-Treasurer. Virginia C. Sulzberger, as an independent contractor, also performed the USNC Secretary-Treasurer functions from 2005 through 2008.

Beginning in 2009, the Secretary-Treasurer functions were divided into elected, volunteer, and separate Secretary (Charles (Ted) Witham, Telemetric Corporation) and Treasurer (Thomas W. Cease, Consultant) positions and a contracted Secretariat (Texas A&M University) function. USNC Vice President-Administration Dr. B. Don Russell, Regents Professor-Electrical Engineering, oversees the USNC's Secretariat function at Texas A&M University. The staff at TAMU has supported the movement of much of the CIGRE USNC platform to the internet during this time and supported the annual Grid of the FutureTM - we are grateful for their hard work namely Sharon Loe and Jessica Meadors.

CIGRE Steering Committee and Administrative Council U.S. Representation

Typically, Presidents of the USNC or past presidents have fulfilled this joint role. The Administrative Council is the broad body (typically national committees and CIGRE officers) that approves CIGRE international initiatives and budgets. The Steering Committee is a smaller body that acts on strategic initiatives approved by the Administrative Council.

For 13 years culminating in 2016, Clark Gellings sat on these bodies as US representative. Clark's major initiatives as the Steering Committee's Marketing Chair were to initiate university involvement and free student membership, which took place in the 2014 timeframe. This has resulted in an increasing membership by younger professionals.

In 2016, Michael Heyeck was appointed by the US National Committee to replace Clark Gellings on these bodies. Mike assumed Clark's role as Marketing Chair and initiated the hiring of a marketing professional to carry CIGRE success into the foreseeable future as it expands broadly as expert on large electric systems to include distribution in its purview. Under Mike's leadership, CIGRE developed a new branding strategy which was adopted internationally at the Paris conference in 2018 and immediately adopted by the U.S. National Committee after the Paris Session.

Under the leadership of Rob Stephen, CIGRE President, the strategic planning and marketing push in 2016-2018 at the international level will brand CIGRE as the foremost collaborative and unbiased community of technical professionals across the globe with diversity of thought, geography, age, and gender. CIGRE is branded as enabling sustainable electricity for all. This change has helped to strength the Next Generation Network of young professionals and the Women in Engineering network within CIGRE.

In 2020, Michael Heyeck was elected as the international CIGRE VP Finance (Treasurer).





U.S. Representative to the CIGRE Steering Committee and the CIGRE Administrative Council

2006 – 2016 Clark W. Gellings (Vice President – EPRI/EPRI Fellow)

2016 – Present Michael Heyeck (Senior Vice President, Transmission (retired) – American Electric

Power)

U.S. National Committee Membership

The two general categories of CIGRE membership include:

- Individual Member (IM) individuals such as engineers, managers, researchers, and professors, etc. are Type I individual members. CIGRE honorary members are also individual members. Students and young engineers (under 35) are Type II individual members and pay 50% of the annual individual Type I membership fee. The USNC's individual membership continues to grow exceeding 735 members in 2019.
- Collective Member (CM) public or private enterprises of an industrial and/or commercial nature, administrative bodies, scientific and technical organizations, and research institutes are Type I collective members. Educational bodies such as universities, colleges, and libraries are Type II collective members and pay 50% of the annual collective Type I membership fee. The USNC's collective membership (mainly Type I) has increased to over 45 members. The U.S. National Committee recognizes three levels of Collective Members based on their financial support. The three levels in order of their contributions to the organization are: Principal, Sustaining and Patron.

The USNC for many years has been one of the top five national committees of CIGRE from a membership perspective. As CIGRE activities increased in value and importance, growth in equivalent (IMs plus CMs, where a CM = 5 IMs) CIGRE membership in the USNC grew from 79 members in 1970 to a high of 970 members in 2019 with USNC membership averaging about 600 individual members over the last five years with 50 Collective members. The U.S. National Committee became the 2nd largest National Committee within CIGRE in 2018

Many executives and top managers from utilities and equipment manufacturers were individual USNC members through the last decades. In addition to individual membership, many companies, including some utilities, equipment manufacturers, and consultants, were "collective" members, which covered many individuals in their respective organizations.

CIGRE Study Committee Chairs from the U.S. National Committee

From its beginning, CIGRE's technical activities have been organized into Study Committees. The direction of these activities and their success depended in large measure on the leadership of the Study Committee Chairman in selecting "preferential subjects" for discussion and the Chairman's skill in developing international cooperation in the ongoing activities. The USNC played an important role, having provided the following Study Committee Chairman through the years.





CIGRE Study Committee Chairs from the USNC

Study Committee	Subject	Years	Chairman
1,15,D1	Material for Electrotechnology	1992-1998	Clive W. Reed
2,21 and B1	H.V. Cables	1970-1974	A.Sidney Brookes
3,13 and A3	Switching Equipment	1996-2002	John H. Brunke
4,34 and B5	Relaying	1980-1986	Stanley H. Horowitz
9	A.C. Very High Voltages	1945-1960	Philip Sporn
9, 31	A.C. Very High Voltages	1960-1968	Howard C. Barnes
10, 14 and B4	Direct Current	1988-1996	Narain G. Hingorani
Former 13 and 32	Power System Stability	1947-1960	S.B. Crary
Former 13 and 32	Power System Stability	1960-1970	Charles Concordia
31, 32	System Planning and Operation	1964-1982	Charles Concordia
37	System Planning and Development	1982-1983	Ted J. Nagel
38 and C4	Power System Analysis and Techniques	1986-1992	Ralph S. Gens
41	Future of Electric Power Systems	1976-1982	Lionel O. Barthold
C5	Electricity Markets and Regulations	2002-2008	Kenneth W. Laughlin
C5	Electricity Markets and Regulations	2014- 2016	Andrew Ott
A3	Transmission and Distribution Equipment	2018- present	Nenad Uzelac

CIGRE and USNC Awards to U.S. National Committee Members

For their role in international CIGRE activities and U.S. National Committee activities, many USNC members have received special awards from CIGRE and the U.S. National Committee.

• CIGRE Honorary Member - The title "Honorary Member" was initiated by CIGRE in 1992. It is the most prestigious designation to be granted by CIGRE. It is awarded to members who have made significant contributions through their service on international committees (CIGRE Steering Committee (formerly Executive Committee), Administrative Council, and/or Study Committees.) These USNC's CIGRE Honorary Members are listed below:

CIGRE Honorary Members from the USNC

1992	Ralph S. Gens
1992	Willis S. White, Jr.
1996	Narain G. Hingorani
1998	Clive W. Reed
2000	Harold N. Scherer, Jr.





CIGRE Honorary Members from the USNC

2002	John H. Brunke
2004	Hans E. Weinrich
2010	Clark W. Gellings
2014	Lionel O. Barthold
2014	Mladen Kezunovic
2016	Pouyan Pourbeik
2018	Andrew Ott

• CIGRE Technical Committee Award - Others from the USNC that received awards from the CIGRE Technical Committee are listed below. The Technical Committee Award was initiated by CIGRE in 1993. It is given to recognize the outstanding contributions of a select number of CIGRE Study Committee members to the work of their respective Study Committees. Generally, only one or two candidates are nominated annually per CIGRE Study Committee.

CIGRE Technical Committee Awards to USNC Members

YEAR	USNC Award Recipient	CIGRE Study Committee
1993	D. Jack Christofersen Allan Greenwood Charles L. Rudasill, Jr. William A. Mittelstadt	DC Links and Power Electronic Equipment Switching Equipment Power System Planning and Development Power System Analysis and Techniques
1994	Andrew R. Hileman John W. Chadwick, Jr.	Overvoltages and Insulation Coordination Protection
1995	Thomas L. Weaver Raymond M. Maliszewski Arun G. Phadke Leonard Sagan	Power System Planning and Development Protection
1996	John A. Casazza	Power System Planning and Development
1997		
1999	Joe C. Pohlman	Overhead Lines
2000		Materials for Electro Technology Power System Protection and Local Control





YEAR	USNC Award Recipient	CIGRE Study Committee
2001	William F. Reinke	Power System Planning and Development
2002	Ivars Vancers	HVDC Links and AC Power Electronic Equipment
2003	Keith E. Lindsey	
2004	John W. Harley	
2005	John J. Vithayathil Roy W. Alexander Mietek T. Glinkowski	
2006	Dennis K. Holstein Pouyan Pourbeik	
2007	Alexander Apostolov Dale A. Douglass Walter Zenger	Protection and Automation Overhead Lines Insulated Cables
2008	Richard A. Wakefield	System Development and Economics
2009	Willis F. Long Albert M. DiCaprio	HVDC and Power Electronics Electricity Markets and Regulations
2010	Anjan Bose	·
2011	Hanna Abdallah	Substations
	Shirish Mehta	Transformers
	Jeff Palermo	•
2012	Stig Nilsson Mladen Kezunovic Andrew Ott	HVDC and Power Electronics Protection and Automation Electricity Markets and Regulation
2013	David Lindsay Nenad Uzelac Vladimir A. Rakov	Insulated Cables High Voltage Equipment System Technical Performance
2014	William G. Moore	Rotating Electrical Machines
2018	Harley Wilson Mark McVey	Transmission & Distribution Equipment Substations & Electrical Installations
2020	Renuka Chatterjee	Power System Operations & Control

[•] CIGRE Distinguished Member Award - In 1996, a "Distinguished Member" status was introduced in CIGRE. This award is a tribute to seniority (over 10 years membership) and to active participation in the work and development of the CIGRE association – within Study Committees and/or National Committees.

CIGRE Distinguished Member Awards to USNC Members

1996	Lionel O. Barthold, John H. Brunke, John A. Casazza, Stanley H. Horowitz, George A. Maneatis, Clive W. Reed , Harold N. Scherer, Jr., Thomas L. Weaver
1998	Allan Greenwood, James A. Oliver, Carson W. Taylor





CIGRE Distinguished Member Awards to USNC Members

2000	Thomas F. Garrity, Ian S. Grant, Thomas E. Sharp
2002	F. Paul DeMello, Frank A. Denbrock, Arun G. Phadke, Hans E. Weinrich
2004	Harold W. Adams, Jr., Alan H. Cookson, Hamid Elahi, Robert E. Fenton, Stanley R. Lindgren
2006	Thomas W. Cease, Clark W. Gellings, Stig L. Nilsson, William F. Reinke, Tapani O. Seppa, Virginia C. Sulzberger
2008	F. Paul DeMello, Frank A. Denbrock, Arun G. Phadke, Hans E. Weinrich
2010	Narain G. Hingorani, Willis F. Long, Ivars Vancers, Richard A. Wakefield
2012	Hanna Essa Abdallah, Anjan Bose, Dale A. Douglass, Shirish P. Mehta, John J. Paserba
2014	George Karady, P. Jeffrey Palermo, B. Don Russell, Roy Alexander, Alexander Apostolov, John Estey
2016	Michael Heyeck, Leon Kempner Jr., John McDonald, Mark McGranaghan
2018	Roger Dugan, Mladen Kezunovic, William Moore, Andrew Ott, Andrew Phillips
2020	Nenad Uzelac, Damir Novosel, Nicholas Miller, Michael Lamb, Neil Kirby

USNC Philip Sporn Award - In addition to the CIGRE international awards, the U.S. National Committee presents awards to its qualifying members. The Philip Sporn Award is given from time to time to a person who has had some affiliation with CIGRE and who is currently active. 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 Recipients of the Philip Sporn Award

1989	Charles Concordia	2014	Robert E. Fenton
1993	Lionel O. Barthold	2015	lan Grant
1994	John A. Casazza	2016	Anjan Bose
1995	Gregory S. Vassell	2016	B. Don Russell
1998	A. Robert Hileman	2017	P. Jeffrey Palermo
2002	Harold N. Scherer, Jr.	2018	Ralph S. Gens
2005	Narain G. Hingorani	2018	Pouyan Pourbeik
2006	Arun G. Phadke	2019	Mladen Kezunovic
2007	Hans E. Weinrich	2019	Willis S. White
2008	John J. Vithayathil	2020	Dale Douglass
2009	John G. Anderson		
2009	Carson W. Taylor		





USNC Recipients of the Philip Sporn Award

	•	•	
2010	John H. Brunke		
2011	Clive W. Reed		
2012	Willis F. Long		
2012	Stig L. Nilsson		
2013	Clark W. Gellings		

• CIGRE Medal - In 2016, this award was introduced in CIGRE. The CIGRE Medal is awarded for proven outstanding technical or engineering contribution to CIGRE and the engineering field, and proven leadership for the benefit of the organization. 2016 is the first time a member of the USNC will receive this award.

USNC Recipients of the CIGRE Medal

2016	Narain G. Hingorani
2018	Clark W. Gellings

• CIGRE Fellow - this award is attributed for active participation in the activities of the technical work of the study committees and for providing a lead technical role in the study committees (maximum five awards every two years). The first year this was awarded to a U.S. member was in 2014.

CIGRE Fellow Award

2014	Lionel Barthold
2014	Mladen Kezunovic
2020	Pouyan Pourbeik

 CIGRE Next Generation Network Significant Contribution Award - this award intended to recognize outstanding contributions of NGN members to CIGRE activities. The first year for this award was in 2020.

CIGRE NGN Significant Contribution Award

2020 Amanda Olson





USNC Attwood Associate Award - The USNC's Attwood Associate Award is given to individuals who
have made notable contributions to CIGRE over an extended period. This award is made to honor the
contributions and memory of Frederic Attwood of the United States, who, with Jean Tribot-Laspière 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 CIGRE in the
year 1921.

USNC Recipients of the USNC Attwood Associate Award

	USNC Recipients of the USNC Attwood Associate Award
1983	Howard C. Barnes, Sterling Beckwith, Peter L. Bellallschi, Fred Chambers, Charles Concordia, Fremont Felix, Eric T. B. Gross, Herman Halperin, Richard J. Hopkins, Lloyd F. Hunt, Edgar L. Kanouse, John T. Lusignan, Melvin L. Manning, Howard L. Melvin, Stephen B. Morehouse, Lawrence M. Robertson, Eugene C. Starr, Herbert R. Stewart, Joseph Sticher, Roy L. Webb, Stanley W. Zimmerman
1984	Charles Almon, Jr., Eugene W. Boehne, Thomas J. Brosnan, William Z. Brownlee, Bradley Cozzens, Edward S. Halfmann, Charles T. Hatcher, Allen Kidder, Vernon M. Marquis, Theodore Nagel, George B. Scheer, Richard F. Stevens, Edwin R. Whitehead
1985	Joseph K. Dillard, Byron Evans, Charles H. Hoffman, Hollis K. Sels, Robert W. Werts, Eugene S. Zobel
1986	J. Lewis Blackburn, Daniel T. Braymer, John A. Casazza, Clifford C. Diemond, I. Birger Johnson
1987	Louis C. Aicher, John W. Batchelor, Vincent Caleca, Thomas W. Dakin, Lee A. Kilgore, Robert J. Ringlee, Frank Von Roeschlaub, Walter R. Wilson
1988	James A. Beehler, Allan Greenwood, Thomas H. Lee, Sampson Linke, J. R. Ruhlman, T. M. Swingle, Charles L. Wagner
1989	John G. Anderson
1990	John W. Chadwick, Jr., John J. Doughtery, Ralph S. Gens, Stephen A. Mallard, James C. Poffenberger, Louis H. Roddis, Jr.
1991	Wallace L. Chadwick, C. John Essel, S. Harold Gold, Herbert H. Woodson
1992	Lionel O. Barthold
1993	Andrew F. Corry, A. Robert Hileman, Joe Pohlman, Charles L. Rudasill, Jr., David Silver
1994	F. Paul De Mello, Thomas Dy Liacco
1995	Theodore A. Balaska
1996	Clarence Baldwin, William J. McNutt, Jan Panek, William Thue
1997	Stanley H. Horowitz

Glenn D. Bauer, Lester H. Fink, Robert W. Flugum, Narain G. Hingorani, Harold N. Scherer, Jr.



1998



USNC Recipients of the USNC Attwood Associate Award

	Ooko Kecipients of the Ooko Attwood Associate Award
1999	Vernon L. Chartier, Ian S. Grant, Robert H. Harner, Raymond M. Maliszewski, James A. Oliver, Arun G. Phadke, John M. Thorson, Jr., T. Robert Woodward
2002	S. A. Annestrand, Thomas F. Garrity, M. Shawky A.A. Hammam, Stephen A. Sebo, Frank S. Young, Luciano E. Zaffanella
2003	James S. Edmonds, John W. Estey, Clark W. Gellings, Stig L. Nilsson, William F. Reinke
2004	George G. Karady, Willis F. Long, Duane R. Torgerson, Hans E. Weinrich
2005	Alan H. Cookson, Frank A. Denbrock, Anthony M. Di Gioia, Jr., Philip R. Nannery, John J. Vithayathil
2006	Anjan Bose, Thomas W. Cease, Chen-Ching Liu, B. (Ben) R. Shperling, James S. Thorp, Thomas L. Weaver
2007	John H. Brunke, D. Jack Christofersen, Robert E. Fenton, Stanley R. Lindgren, Clive W. Reed, Herman M. Schneider, Tapani O. Seppa, Virginia C. Sulzberger
2008	John W. Chadwick, Jr., John J. Doughtery, Ralph S. Gens, Stephen A. Mallard, James C. Poffenberger, Louis H. Roddis, Jr.
2009	Wallace L. Chadwick, C. John Essel, S. Harold Gold, Herbert H. Woodson
2010	George Gela, George Gross, Dennis Holstein, Keith Lindsey, Richard Wakefield, Walter Zenger
2011	Pouyan Pourbeik, B. Don Russell
2012	Mietek T. Glinkowski, Dr. Leon Kempner, John J. Paserba , Charles B. Rawlins
2013	Hanna E. Abdallah, John C. Houston , Pouyan Pourbeik, B. Don Russell
2015	Steinar Dale, Tom Tobin
2016	Terry Boston, Michael Heyeck, John D. McDonald, Damir Novosel, Andrew L. Ott
2017	Mark Adamiak, Roger C. Dugan, Mark McGranaghan, William G. Moore, Andrew Phillips
2018	Albert DiCaprio, Michael L. Lamb, Mark McVey, Nenad Uzelac
2019	Harley W. Wilson, Amanda Olson, Neil M. Kirby, Michael Beehler, Stewart M. Ramsay
2020	Paul Myrda, John Randolph, Galen Rasche, David W. Roop, Chris Root, Jason Taylor

CIGRE Outstanding Collective Member Award

Collective members provide significant support the success of the CIGRE in the United States. It for this reason that the U.S. National Committee since 2015 has recognized those Collective Members for outstanding leadership and continuing managerial, technical, and financial support of the activities support of the activities of the U.S. National Committee and CIGRE over an extended period of time.

2015	American Electric Power Company
2017	GE Energy Connections, Tennessee Valley Authority
2018	Burns & McDonnell, S&C Electric





2019 PJM Interconnection LLC, Texas A&M University, Electric Power Research Institute

2020 Dominion Energy

CIGRE USNC Recognition Award

The U.S. National Committee recognizes individual members that have significantly worked to advance this Association by presenting them with the USNC Recognition Award as a token of gratitude and in recognition of the work accomplished for the Association.

2011 Clark W. Gellings

CIGRE Publications of U.S. National Committee Members

The contributions of the USNC members to CIGRE and worldwide technical knowledge are demonstrated by the many CIGRE papers and articles they authored, the many key discussions in which they participated, and the symposia they helped organize. The CIGRE papers presented at the biennial Paris meetings are available at the U.S. Library of Congress and CIGRE Paris headquarters.

Both CIGRE members and non-members have access to the new (2007) CIGRE online library (www.e-cigre.org) for obtaining CIGRE publications. Many of these publications are now available in electronic format for downloading by members, and hard copies of the non-digitized publications are also available through the CIGRE Paris headquarters. CIGRE members enjoy significant benefits in accessing CIGRE publications both in terms of speed of delivery and in reduced fees charged for hard copies.

Through 2008, the U.S. National Committee membership contributed over 325 papers to CIGRE Sessions. If all papers involved with the CIGRE Sessions, CIGRE symposia, and special Study Committee reports are counted, including those papers in which U.S. authors participated but were not the main author, the USNC's contribution to total CIGRE publications approaches 550 papers or reports through 2008.

One can map the change of the times and what became important to U.S. Cigreans by reviewing the subject material of their papers as time progressed. In the 1920s and 1930s, overvoltage and insulation coordination dominated the U.S. reports made to CIGRE at 30% of the total U.S. reports produced. That was followed by transmission systems (22%) in the decade of the twenties, and insulators (16%) in the short decade of meetings in the thirties. Over the following four decades, the transmission system was the predominant topic growing to 40% of the reports produced in the 1950s and 1960s. Generation edged out direct current (DC) topics in the U.S. reports in the 1980s, but DC dominated in the 1990s and the early 2000s.

While listing the over 325 papers contributed by U.S. authors to CIGRE is not possible in this chapter, it is appropriate to remember a sampling of those early USNC members who worked hard to produce their reports and contributed greatly to the benefit of the electric industry. Therefore, noting a few authors and their papers in the context of the times in which the papers were developed seems the highest recognition the USNC can give its entire group of authors.





The first five papers authored by USNC members were for the inaugural CIGRE meeting in 1921 and are listed below. The industry has come a long way since these 1921 papers were written, but without these authors and their international peer reviewers, it is unlikely that the USNC and CIGRE would have advanced.

U.S. Authors	U.S. Paper Titles (1921)
M.W.S. Murray	Creation of an Electric Interconnection System in the Areas between Boston and Washington
W.W. Lewis	High Voltage Electricity Transmission
C.A. Powell	Some Aspects of the Problem of Switchgear with a View to Its Adaptation to High Voltage Transmission
A.O. Austin	The Insulation of Transmission Systems Comprising Large High Voltage Lines
F.W. Peek	Factors on Which the Insulation of Transmission Lines Depend

The next U.S. authors being recognized are those who were the last to write their USNC papers just prior to the cessation of CIGRE meetings due to World War II. Curiously, there also were five papers that year and "that year" was 1939.

U.S. Authors	U.S. Paper Titles (1939)
P.L. Bellaschi	Coordination and Protection of Station Insulation against Lightning
-	The Counterpoise, Its Theory, Application and Performance in Reducing High Voltage Transmission Line Outages
W.W. Lewis	Lightning Currents on Transmission Lines
J.J. Taylor	Duration of Load and Its Influence on the Strength of Suspension Insulators
•	Experience with High-Speed Fault Clearing and Ultra High-Speed Reclosing of High Voltage Transmission Lines

Many questions remain today about some of these subjects even though the 1939 authors may have believed that the improvements the electric industry was to achieve would have solved most of these technical problems.

The third group of U.S. authors being recognized are those who were the first from the USNC to submit papers once CIGRE commenced its activity at the conclusion of the war. The U.S. had 17 delegates in attendance at the 1946 CIGRE Session, and the following seven U.S. papers were discussed. The rapid recovery of the collaborative process within CIGRE was amazing.





U.S. Authors U.S. Paper Titles (1946)

P.L. Bellaschi Progress in Power Transformer Insulation and Protection

P. Sporn, Ultra High-Speed Reclosing Demonstrates Its Value

J.H. Kinghorn

O.K. Marti Status of Mercury Arc Power Rectifiers

R.E. Pierce Interconnected Power System Automatic Load Frequency Control

P.M. Ross Calculation of Power Station Insulators for Optimum Impulse Performance

C. Doble Advances in Maintenance of High Voltage Insulation in the USA

W.W. Lewis Lightning Investigation on Transmission Lines

These 17 papers and their authors are perhaps not more worthy of note than those of their more recent or earlier colleagues, but they do reflect to some degree the interests of the electric industry at three points in time. In large measure, the ability for the electric industry to continue to progress as it has been made possible because of the dedicated efforts of these authors and their CIGRE colleagues to bring solutions and share experiences so that all of CIGRE membership might benefit, improve their systems, and operate a more reliable and environmentally friendly electric system within fiscal constraints imposed by regulators and customers and within a reasonable bound of nature's more dramatic forces. CIGRE, and indeed all large electric systems, owe much to these men and women who provided the intellectual capital, labored within diverse committees to understand, and collaborate, and then produce the papers that were the very catalysts of improvement for the electric industry. It is clear that the electric industry would not have achieved what it has without them.

Their work continues today with subsequent generations of U.S. Cigreans contributing articles in the CIGRE Science & Engineering publications, active engagement on technical committees with papers presented at every subsequent Paris Session and the many papers submitted at the annual Grid of the Future™ conferences held in the United States.

In Conclusion

The first document prepared on the "History of the U.S. National Committee of CIGRE" covered the 1921 - 2007 period. It was prepared at the request of USNC President Clark W. Gellings by John A. Casazza, a distinguished member of the U.S. National Committee and CIGRE since the 1960s. This detailed USNC History document is available on the USNC website (https://cigre-usnc.org/) and was the basis for this short chapter on the history of the USNC. The 2007 USNC History document also lists the publications of the U.S. authors from 1921 through 2007. The intent is to maintain the detailed USNC History document as a living document and to update it from time to time as we move into the Second Century for this organization.

