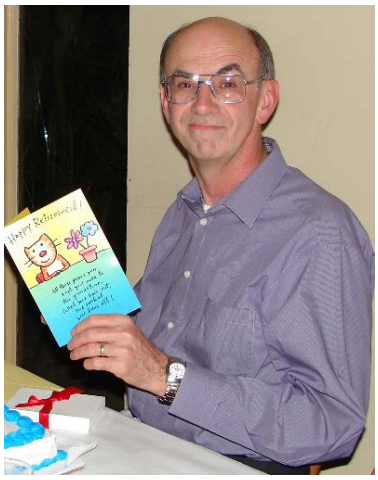
9.0 RECOGNITION & AWARDS REPORT – STEPHEN ANTOSZ

October 14, 2018, Jacksonville, FL

9.1 IN MEMORIAM

9.1.1 Steve Smith



Stephen Douglas Smith, 69, passed away on May 16, 2018 after a courageous battle with cancer. Stephen graduated in 1972 from Ohio State University where he received his Master's degree in Electrical Engineering. He worked at Kuhlman Electric until his retirement in 2007. He became a member of the Transformers Committee in 1991. After leaving Kuhlman, Steve and his wife of 49 yrs, Linda returned to their farm in Newark, Ohio. Steve is survived by his wife, three children, and two grandchildren.

Tributes:

Ted Everman of AEP - So sorry to hear of Steve's passing. Had dinner many times together in Mississippi. Always great to chat with him.

Tony LaRe - I am very saddened to learn of my old transformer buddy passing away. We worked together at AEP in the Canton days building the 765KV system.

Jeoffry M Bednar - Sorry to hear of Steve's passing we shared many times over the years learning from each other about transformers.

Steve Snyder - I first worked with Steve when he came to McGraw-Edison in 1979. He quickly became a close friend and mentor. It was Steve that encouraged me to join IEEE, and in those days we often traveled together to Columbus for local Section meetings. As time passed, eventually Steve hired me at Kuhlman in Kentucky, and he encouraged me to join the Transformers Committee which I began attending in 1995. No one has shaped my career more than Steve Smith.

Roger Dugan - Steve and I worked together at McGraw-Edison and Cooper Power where we did some pioneering work on "Low-side Surges" in distribution transformers from 1985 to 1992. Recently saw a pole-top transformer in Waterford with a Storm Trapper HE hanging on it. That is a result of our work. I also worked with Steve after he moved to Kuhlmann on various substation transformer failures. Some the most interesting work I have done in my career. Steve was my transformer mentor and was always willing to answer my questions. I will miss him.

9.1.2 Tom Golner

Tom passed away unexpectedly on June 9, 2018 at the age of 67 years. Beloved husband of Patricia for 43 years. Tom graduated from Marquette University with a BS in Chemistry and Masters in Electrical Engineering. He was employed at SPX in Waukesha. He was an active participant in the IEEE Transformers Committee meetings for many years. Tom was a member of the Milwaukee Porsche Club and the Microlite Flyers. He enjoyed bird watching, bowling, horse racing, auto racing, watching old movies and playing golf and softball.

Tributes:

Allan Bartek - I am deeply saddened to hear of Tom's passing. We have been friends for well over 20 years seeing one another every 6 months or so at the Transformers Committee meetings. Tom was a brilliant Engineer. We had transformers in common but also, we shared a love of Autocrossing. So many times we would take some time, find a restaurant and trade Autocross stories all night. I was always impressed with Tom's kindness and genuine interest in helping others. My deepest condolences to his wife Pat and family we will all miss him

Tom Schmidt - He was a good man and friend always willing to help. Will miss him dearly. He was an excellent mentor taught me a lot when we worked together at SPX. Will never forget the look when asked a question. It would be a second as he pondered and then respond with a very detailed, accurate answer. He will be in our thoughts and prayers.

Tom Beske - I was shocked and saddened to hear of Tom's passing. I worked with Tom for many years. He was well respected for his friendly smile and his vast knowledge of transformers and all that went into them. I often went to him for help when trying to solve a problem. He was always willing to help and usually provided valuable information. I am retired but I know SPX will miss him greatly.

Gary Stuyvenberg - Deeply saddened to hear about Tom. Knew him during my days as Secretary of Porsche Club. Great autocross competitor, fish fry, summer picnic, tech session, Carrera Chili, Turbo Spaghetti and Christmas party regular. It was always exhilarating watching him perform. He loved competing. He was my favorite autocrosser. Was always stirring up Porsche conversation with him. He got more out of that '67 green 911 than most did in cars 10, 20, 30 years newer. Was always an encouragement to me. Great memories! He will be missed.

9.1.3 Dennis J. Allan

Passed away in early July 2018. Internationally renowned Professor Dennis J. Allan, member of the Institute of Electrical and Electronics Engineers (IEEE), member of the Institution of Electrical Engineers (IEE), member of the Institution of Mechanical Engineers (IMECHE), former Chairman of IEC TC14 (transformers) and IEC SC 36A (bushings), Director and Technical Manager of GEC ALSTOM T&D Transformers Limited, Stafford (1987-1997), and technological advisor to GEC ALSTOM since 2005. Dennis held a patent for “Methods of making power distribution transformers", October 12, 1994, was Chair of the CIGRE Power Transformer and Reactor Study Committee SC A2 from 1986-1994 and co-authored Chapter 1 in the "Electric Power Transformer Engineering" book. Dennis was an IEEE Life Fellow and received his Fellowship in 1992 for contributions to the design and development of power transformers. He was a Transformers Committee Member from ~1976 until 2005 and continued to participate until 2013. Dennis was particularly active in the Dielectric Test Tables WG, PD Measurement Guide WG, and the Moisture in Oil TF. Dennis leaves behind his wife Glenis.

Tributes:

John Graham: Dennis was a great mentor to me personally through my standards work with IEC and IEEE and our time in the HVET organization. I’m sure he will be greatly missed.

Bill Chiu: We all knew Dennis as one of the industry’s technical pillars of our time.

Peter Balma: He will be missed. I was fortunate to have spent time with him at several CIGRE meetings around Europe and occasionally at our meetings.

Sheldon Kennedy: I knew Dennis from our interaction with IEC and IEEE standards. He was always a great technical expert and gentleman. We did work together on a project for Alstom Drives where Niagara Transformer was building the transformers for their drives group. They were particularly nasty in that they were cyclo-converter drives that generate DC currents in the secondary wave forms at certain drive frequencies. The project was for the NASA wind tunnels in Hampton Virginia where they test air craft and the space shuttle at the time. Now they also test race cars in there. There were several sections of secondary windings with their own loads that cascaded together. Each secondary section had to have its own air gaps in the core legs to block the effects of the DC currents. So the core legs consisted of multiple air gaps with fringing effects. This was one of the rare cases where two transformer manufacturers worked together to compare their design expertise and FEA analysis in order to make sure the solution was correct for the Alstom drives. Stafford really wasn't interested in building these according to Dennis. But, he and I worked together to make sure nothing was missed, including when he flew to Newark to meet me in an airport hotel conference room to compare everything. He never left the airport and flew back to England after our meetings. The project went splendidly without problems.

He was really one of the finest engineers you would ever want to meet.

9.1.4 Heinz G. Fischer

Heinz Fischer passed away on April 9, 2018. He was 89-years-old. He was still in excellent health but died in a tragic accident while working on his home in St. Johns, US Virgin Island. He was a long-time Member of the IEEE Transformer Committee. Heinz was born March 10, 1929 in the Balkans. He and his family moved to Germany in his youth. After completing his education, he started his engineering career at Brown Boveri Transformer Division located in the city of Basel, Switzerland. He was still living in Germany, just across the Rhine River, and commuted each day on his bicycle.

In 1964 Westinghouse Electric opened its Large Power Transformer factory in Muncie, Indiana. Heinz was recruited by Westinghouse and joined the company as a Senior Development Engineer overseeing the management the company's Licensees from around the world. While in Muncie Heinz and his family earned their United States citizenships.

In the later 1960s Heinz was hired by Allis-Chalmers in West Allis, Wisconsin as their VP of Engineering and Sales. In 1969 EHV-Weidmann Industries was a new start up producing high voltage insulation for the transformer industry. EHV-Weidmann needed both technical and sales expertise and approached Heinz about joining them in St. Johnsbury, Vermont. He was hired as the VP of Engineering and Sales and elected to the Board of Directors August 1, 1972.

His role at Weidmann Electrical increased to include: Quality Assurance, R&D and Technical Services. He developed the company's technology offerings including the establishment of high voltage, chemical and mechanical laboratories. He was one of the primary drivers that helped Weidmann become a leader in transformer insulation materials and systems.

Heinz retired from Weidmann in March of 1994 to pursue with his wife Linda (Lyndi) their love for outdoor adventure. They were both private pilots in airplanes and hot air balloons. Heinz became a certified instructor in the latter. In their retirement they visited every continent, including several weeks in Antarctica. They spent winters in Vermont skiing and summers in St. Johns, Virgin Island scuba diving.

In April 2008 they became the oldest married couple (79 and 72) to cross country ski to the North Pole and are now in the Guinness Book of World Records. Heinz took a video of his GPS reading 0° 0' 0". They spent the night at the North Pole and in the morning found that the ice cap had drifted 1.4 km. Two years later they joined a Discovery Channel expedition in search of the most northerly dry tract of land. After two weeks searching they discovered "Ultima Thule" a 126-foot-long tract of permanent land with a maximum elevation of about 40 feet. They planted USA and Switzerland flags on the peak.

Heinz was a manager, engineer, teacher, mentor and most of all a good friend to many young and old engineers in the transformer industry. He will be dearly missed by many.

Mike Franchek: "He was my boss, mentor and friend. Pam and I are quite saddened by this."

9.2 GENERAL SERVICE AWARDS

- Outgoing Subcommittee Chair – Steve Shull, Distribution Transformers SC

9.3 NEW MEMBERS OF THE TRANSFORMERS COMMITTEE

The Transformers Committee welcomes 10 new committee members. Each of the following people were presented with a membership certificate:

1.	Alan Sbravati	Cargill
2.	Darren Brown	Howard Industries
3.	Dave Stanks	3M
4.	Israel Barrientos	Prolec GE
5.	Jason Varnell	SPX Transformer Solutions
6.	Kris Zibert	Allgeier, Martin and Associates
7.	Leal Gustavo	Dominion Energy
8.	Thomas Dauzat	GE
9.	Tim-Felix Mai	Siemens
10.	Shankar Subramany	Kema

9.4 OUTSTANDING SERVICE AWARDS, FOUR TOTAL

For long-term commitment, dedication, and contributions to the Transformers Committee.

9.4.1 Wally Binder

9.4.2 Jack Harley

9.4.3 Dan Mulkey

9.4.4 Steve Shull

9.5 IEEE-SA STANDARDS MEDALLION

9.5.1 Stephen Shull (award to be presented to Steve by IEEE-SA in December)

For major contributions to the development of standards, including leadership in standardization of new technologies, assuring achievement of standards development goals, identifying opportunities to better serve the needs of standards users or other such contributions viewed as deserving of this award.

9.6 CIGRE BEST PAPER AWARD – PARIS 2018 SESSION

9.6.1 Luiz Cheim, ABB USA

This is for honorable mention only. Since one of our Members received a Cigre Best Paper Award, I thought it nice to make his colleagues in the Transformers Committee aware of this international recognition. The paper will be published in Electra Magazine in 2019.

Paper A2-206. *Machine Learning Tools in Support of Transformer Diagnostics*.
The paper describes the use of Machine Learning (ML) algorithms as supporting tools for the automatic classification of power transformer operating condition. HF transformer modeling has been applied in transformer design and transient studies but it could also be a support to FRA analyses and PD localization. Internal resonance is an important phenomenon and together with FT/VFT may explain a significant number of unknown transformer faults. ML has also been shown to be a powerful approach to improve transformer diagnostics.

9.7 WORKING GROUP AWARDS

In addition to the Committee Awards above, the IEEE SA SB presents its own Award to the WG Chair upon publication of a new or revised document and offers the WG Chair the opportunity to nominate significant contributors to the project for an IEEE SA SB Certificate of Appreciation.

1. C57.12.36 WG Chair Jerry Murphy. IEEE Standard Requirements for Liquid-Immersed Distribution Substation Transformers. Published in 2017. Status: Confirmed delivery to Steve, May 17. 1 Wood plaque: Carlos Gaytan Vice-Chair. 4 Certificates of Appreciation: Steve Shull, Wally Binder, Gary Hoffman, Martin Rave.

2. C57.12.39 WG Chair Carlos Gaytan. Standard Requirements for Distribution Transformer Tank Pressure Coordination. Status: Confirmed delivery to Steve, early July 2018. 3 Wood plaques: Carlos Gaytan, Jeremy Van Horn (Secretary), Justin Pezzin. 6 Certificates of Appreciation: Ron Stahara, Brian Klaponski, Dan Mulkey, Christopher Sullivan, Steve Shull, Alan Wilks.

3. C57.12.58 WG Chair - Roger Wicks. Guide for Conducting a Transient Voltage Analysis of a Dry-Type Transformer Coil. Status: Confirmed delivery to Steve. 1 Wood plaque: Roger Wicks. 2 Certificates of Appreciation: Casey Ballard, Tim-Felix Mai.

4. C57.19.01 WG Chair Shibao Zhang Standard Performance Characteristics and Dimensions for Outdoor Apparatus Bushings. Status: Confirmed delivery to Steve July. 2 Wood plaques: Shibao Zhang, David Wallach (Secretary). 3 Certificates of Appreciation: Weijun Li, Devki Sharma, Dave Geibel.

5. C57.119 WG Chair Gael Kennedy. Recommended Practice for Performing Temperature Rise Tests on Oil-Immersed Power Transformers at Loads Beyond Nameplate Ratings. Status: Confirmed delivery to Steve, July 1 & 30. 2 Wood plaques: Gael Kennedy, Tom Prevost. 3 Certificates of Appreciation: Juan Castellanos, Marion Jaroszewski, Patrick McShane.

6. C57.147 WG Chair Patrick McShane. Guide for Acceptance and Maintenance of Natural Ester Insulating Liquid in Transformers. 3 Wood plaques: WG Chair Charles (Patrick) McShane; Vice-Chair Clair Claiborne; Secretary Jim Graham.

7. C57.158 WG Chair Enrique Betancourt, Guide for the Application of Tertiary and Stabilizing Windings in Power Transformers. Status: Confirmed delivery to Steve. 3 Wood plaques: Enrique Betancourt, Brian Penny Vice-Chair, Marnie Roussell Secretary. 3 Certificates of Appreciation: Hemchandra Shertukde, Jose opez Fernandez, Vijayan Krishnamurthy.

8. C57.12.40 WG Chair Brian Klaponski. Standard for Network Three Phase Transformers, 2500 kVA and Smaller, High-Voltage 34,500 V and Below, Low Voltage 600 V and Below, Subway & Vault Type (Liquid Immersed). Confirmed delivery to Steve, May 29. 2 Wood plaques: Brian Klaponski, Giuseppe Termini Secretary. 10 Certificates of Appreciation for: William Wimmer, Lee Welch, Jeremy Sewell, George Payerle, Daniel Mulkey, Charles Morgan, Alejandro Macias, Will Elliott, James Dorsten, Larry Dix.

Awards already distributed:

9. C57.106 WG Chair - Bob Rasor. Guide for Acceptance and Maintenance of Insulating Mineral Oil in Electrical Equipment. Status: several Emails with WG awards Form has been sent to bob.rasor@sdmyers.com and hali.moleski@sdmyers.com to notify about the need for information. Received recognition at Spring 2018 Pittsburgh luncheon and physical awards at Fall 2018 Jacksonville.

10. C57.12.10 WG Chair Gary Hoffman, Standard Requirements for Liquid-Immersed Power Transformers. WG Chair confirmed received awards, July 20 email. Brian Penny, Scott Digby, Mark Tostrud, Joe Watson, Ryan Musgrove, Waldemar Ziomek.

11. C57.13.1 WG Chair Bruce Magruder. Guide for Field Testing of Relaying Current Transformers. WG Chair confirmed received awards.

12. C57.12.24 – WG Chair confirmed received awards.

13. C57.140-2017 WG Chair confirmed received awards.

14. C57.138-2016 WG Chair confirmed received awards.

15. C57.163 COR 1. Sent to recipients via Fed Ex and confirmed.

16. C57.12.20 WG Chair - Alan Traut. Standard for Overhead-Type Distribution Transformers 500 kVA and Smaller: High Voltage, 34 500 V and Below; Low Voltage, 7970/13 800Y V and Below. WG Chair confirmed received awards; he said he would distribute himself 5/6 and 5/17 emails. Received recognition at Spring 2018 Pittsburgh luncheon.

17. C57.120 WG Chair – Roger Verdolin. Guide for Loss Evaluation of Distribution and Power Transformers and Reactors. WG Chair confirmed received awards. Received recognition at Spring 2018 Pittsburgh luncheon.

18. 60076-57-129 WG Chair – Ulf Radbrandt. Standard for General Requirements and Test Code for Oil-Immersed HVDC Converter Transformer. Status: WG Chair confirmed received awards. Received recognition at Spring 2018 Pittsburgh luncheon.

Not Done Yet:

a) C57.19.04 WG Chair Scott Digby. Standard Performance Characteristics and Dimensions for High Current Power Transformer Bushings with Rated Continuous Current in Excess of 5000 A in Bus Enclosures. Status: Waiting on publishing of the cover that is due 09/04/2018. WG submitted request.

b) C57.15 WG Chair Craig Colopy. Standard Requirements, Terminology, and Test Code for Step-Voltage Regulators. Status: waiting on cover to be published to submit to vendor for award processing. May 31 email Craig will have awards sent to Steve.

c) C57.12.38/Cor 1-2016 - sent email reminder again from the March, April, May 2018 and July 30 & 31. cc'ed Malia and Steve.

9.8 Other Awards

See the Awards Guidebook on our website http://www.transformerscommittee.org/ for other award opportunities. The guidebook provides a reference for the awards that are available to the PES Technical Committees volunteers each year. The intent is to provide one reference point to assist the PES Technical Committees in recognizing the volunteers who donate their time and expertise to the betterment of the industry and society overall. This is meant to supplement, not replace the PES Awards web page: https://www.ieee-pes.org/pes-communities/awards.

Respectfully submitted,

Stephen Antosz
Chair, Recognition & Awards Subcommittee
IEEE PES Transformers Committee
October 14, 2018