IEEE PES Power System Relaying and Control (PSRC) Committee

List of honorary members who have passed. They have left us, but we remember them with affection and gratitude.

John Boyle (1927-2025)



John Robert Boyle was born on November 4, 1927 in Bellrose, NY. He passed away on March 19, 2025, at 97 years of age. John received an undergraduate degree in electrical engineering from Duke University. He started his career at TVA where he was happily employed for 38 years. His area of expertise was power system protection. He was an IEEE Life Fellow (1992). He received the TVA Engineer of the Year Award in 1982, and later that year he received the Federal Engineer of the Year Award in Washington, DC. John taught engineering classes at Chattanooga State Community College, Georgia Tech, and the University of Wisconsin. He traveled

internationally to Indonesia, Sweden, Nigeria, and Switzerland to share his knowledge. After retiring from TVA, he started the consulting firm Power Systems Analysis. He received the PSRC Distinguished Service Award in 1992.

John was the chair of the IEEE PES PSRC during 1989 and 1990. He was the chair of the Technical Sessions Improvement Committee of the PES Technical Council and was a PAC World industry guru in 2018.



James Warner Ingleson (1948–2024)

James "Jim" Warner Ingleson was born on February 18, 1948, in Jamestown, NY. Graduating with high honors from Jamestown High School, he continued his academic pursuits at Rensselaer Polytechnic Institute, where he earned both a bachelor's and master's degree in electrical power engineering.

Throughout his distinguished career, Jim made significant contributions to the field of engineering, serving as a protective relay engineer at General

Electric for 9 years before devoting 28 years to the New York Independent System Operator. He served as chairman of the Relaying Practices Subcommittee of the IEEE PES PSRC, and his expertise and dedication were recognized with a Distinguished Service Award.

Jim played in several community bands as a member of the brass section along with his wife Carolyn, and at one time he founded and led a Dixieland jazz band, the Masters of Swing.

Stanley H. Horowitz (1925–2022)



Stanley H. "Stan" Horowitz was born in Far Rockaway, New York City, NY. He graduated with a B.E.E. degree in 1949 from City College of New York. In 1950, Stan joined American Electric Power (AEP). He would remain with AEP for all his career, retiring in 1989. During that time, he served as the head of the system protection section, assistant head of the electrical engineering division, and a consulting electrical engineer. He was deeply involved in the development of protection principles that guide system design today. Stan, a Life Fellow, was elected to IEEE Fellow in 1979 "for contributions to power system integrity through protective relaying and through industry/education research programs." He was elected to the

National Academy of Engineering in 1995 "for contributions to electric power systems reliability and integrity through advanced protective relaying." He was awarded the IEEE-Eta Kappa Nu Vladimir Karapetoff Award for Outstanding Technical Achievement in 2007. Stan served as the chair of the IEEE PES PSRC from 1975 to 1978. He served on the IEEE Life Members Committee and the PES Fellows Committee. In 1979, the IEEE PES PSRC awarded him its Distinguished Service Award. Stan coauthored a textbook, *Power System Relaying*, and edited the IEEE Press book *Protective Relaying for Power Systems*. He served as the editor-in-chief of *IEEE Computers Applications in Power* from 1996 to 2002. In his later years, he lectured at multiple universities throughout the world.

George D. Rockefeller (1927–2022)



George Dorwart Rockefeller was born in Lancaster, PA, on December 31, 1927. He received his BSEE from Lehigh University, MSEE from Newark College of Engineering (now NJIT), and later his MBA from Fairleigh Dickinson University. He rose to Consulting Engineer and leading protective relaying expert at Westinghouse Relay-Instrument Division in Newark, NJ between 1951 and 1972. During 1972-1982 he was Manager of System Protection at Consolidated Edison Company of New York; he then served the industry as an independent consultant. George was the

chair of the IEEE PES PSRC from 1981 to 1982.

In his 1967 master's thesis, Geroge invented the architecture and functional operation for a protective relaying system based on a digital computer, later reported in an IEEE Transactions paper. From 1969 to 1971, George conceived and led development of Prodar 70, the world's first high-speed transmission line relay based on a digital computer. Prodar 70 was commissioned in February of 1971 on a 230 kV transmission line at Tesla Substation of Pacific Gas & Electric Company, where it demonstrated now-familiar capabilities of multiple functions, tailored operating characteristics, event logging, fault location, oscillography, and self-monitoring, all in the electromechanical era. Technical specifics are documented in two companion landmark 1972 IEEE PES Transactions papers. The first commercially viable computer relaying products entered service around 1985. In 2016 George was awarded the IEEE PES Herman Halperin Electric Transmission and Distribution Award "for invention, development, and practical field demonstration of protective relaying of electric power systems with digital computer techniques."



George C. Parr was born in Montgomery, AL, on September 15, 1937. He graduated with a degree in electrical engineering from Auburn University. After college, he served as an officer in the U.S. Army. He worked for ABB specializing in power system protection. He was a coauthor of the 1995 *IEEE Tutorial on the Protection of Synchronous Generators*, which was developed by the Rotating Machinery Protection Subcommittee of the IEEE PES PSRC. He enjoyed traveling to Europe and ocean cruising.

Gerald F. Johnson (1949–2022)



Gerald F. Johnson worked for Dominion Energy for 29 years and Basler Electric for 14 years. After retiring, he continued to teach at the Dominion training center. Gerald was an IEEE PES PSRC member for 14 years and acted as the PSRC liaison for the 1547 series of standards, *Interconnection and Interoperability of Distributed Energy Resources with Associated Electric Power Systems Interfaces*. He was recognized in 2016 with a PSRC Career Service Award.

Roger Hedding (1948–2021)



Roger Hedding graduated with a B.S.E.E. from Marquette University and a master's degree in electrical engineering from the University of Pittsburgh. He was a senior consultant for the ABB power system automation and communications business unit. He guided the development of relay products and applications for the ANSI market. Roger was an IEEE Senior Life Member, and past chair of the IEEE PES PSRC (2013–2014). Roger authored or coauthored many papers in power system protection.

James E. Stephens (1924–2021)



James E. "Jim" Stephens was born in 1924 in Iowa. In the fall of 1942, Jim began his electrical engineering education at the University of Illinois. However, in March of 1943, the U.S. Army called and Jim spent the rest of 1943 in training. Jim then spent the next two years doing airborne radar maintenance at Elmendorf Air Field near Anchorage, AK, reaching the rank of staff sergeant. In September 1946, Jim returned to the University of Illinois and graduated in 1949 as an electrical engineer. Jim was employed by the Illinois Power Company for 40 years, serving as an electrical systems protection engineer for most of that time. In 1957, Jim and his family moved to LaGrange Park, IL, for a one-year assignment with the nuclear power group study team. Illinois Power was one of eight companies researching nuclear power and

contributing to the research and development for the Dresden Nuclear Power Plant, the first privately owned nuclear plant in the U.S. Jim was active with the IEEE PES PSRC for many years during the 1990s.

Gino Joseph Marieni (1924–2021)



Gino Joseph Marieni was a WWII Veteran who served in the U.S. Marine Corps from 1943 to 1946, earning the rank of sergeant and having served in the Pacific on Oahu, HI and on Midway Island. He graduated from the University of Missouri with a B.S. degree in electrical engineering in 1951. He also attended graduate studies at Rutgers University and Newark College of Engineering. He joined Westinghouse Electric Corporation after graduating and was assigned to the relay-instrument division in Newark, NJ. After 35 years of service as an engineering manager, he retired in 1987 from Westinghouse relay instrument division in Coral Springs, FL. He shared ideas

resulting in two U.S. patents, wrote numerous articles, and presented papers on overcurrent relays, relay design, static or electronic relaying, and solid-state control devices. He traveled extensively for Westinghouse and was the chief U.S. delegate to the International Electrotechnical Committee (IEC) Technical Committee 95 on measuring (protective) relays. During his career, he also served as president of Westinghouse Engineers Association, chairman of ANSI C37 Relay Subcommittee of the IEEE, chairman of NEMA Switchboard WG, and as the U.S. chief delegate to the IEC committees TC41 and SC41B.

John T. Tengdin (1926–2017)



John T. Tengdin, P.E. graduated with a B.S.E.E. degree (power option) from Purdue University in 1949. His employment experience included Dayton Power and Light Company, General Electric Company, Honeywell Information Systems, the tech division of American Diversified Bank, and OPUS Consulting Group. He was a registered professional engineer in the state of Missouri. He formed OPUS Publishing in 1999 as a two-man partnership, specializing in substation automation and cyber security, which later became OPUS Consulting Group in 2007. John received numerous awards from the IEEE PES Substations Committee and IEEE PES

PSRC for his work on technical papers and standards, and from the IEEE Standards Association for rapid standard development. His 2007 IEEE Fellow citation is "for leadership in Ethernet local-area network based protective relaying and control in electric power substations."

Richard P. Taylor (1947–2017)



Richard P Taylor earned a degree in Electrical Engineering from Louisiana Tech University. He moved to New Orleans after graduation working for Louisiana Power & Light/Entergy until 1991. He then worked for GEC (which later became known as Asthom and eventually Areva). He then established an office of TRC Solutions in Asheville, NC, from where he retired. He was an IEEE fellow and past chair of the IEEE PSRC (2003-2004). He was very instrumental in the development of the original

C37.113-2015 - IEEE Guide for Protective Relay Applications to Transmission Lines, one of the most used guides from IEEE PES. Rick was also the Vice President of Technical Activities of IEEE PES (2010-2011). He authored or co-authored several papers related to power system protection. He participated for many years on the planning committees of the Texas A&M Protective Relay Conference and the Georgia Tech Protective Relay Conference. Rick was a great mentor to many young engineers within the industry. Rick was an avid runner who could be found covering many miles daily along the banks of the Mississippi River and frequently participating in marathons.

Charles L. Wagner (1925–2014)



Charles L. "Chuck" Wagner earned the B.S.E.E. degree from Bucknell University and MSEE degree from the University of Pittsburgh. He spent his entire professional career with Westinghouse Electric Corporation, following the path set by his father, Charles F. Wagner. He was president of the IEEE Power Engineering Society in 1984–1985 and served as chair of the IEEE PES Technical Council prior to that. He authored over 85 technical papers and was the recipient of numerous honors of distinction, including the IEEE Herman Halperin Transmission and Distribution Award and the IEEE Charles Proteus Steinmetz Award. Chuck was elevated to IEEE Fellow "for contributions in the field of extra-high voltage transmission, protective relaying, and

power circuit breaker applications." He was elected to the U.S. National Academy of Engineering in 1999 "for contributions to electric power system engineering and standards."

Chuck received the IEEE PES PSRC's Distinguished Service Award in 1985. He was chairman of the IEEE PES PSRC working group J2 that completed the AC Motor Protection Tutorial.

Jack Chadwick (1923–2013)



Jack Chadwick graduated with an electrical engineering degree from NC State College in 1947 and worked for Tennessee Valley Authority for 43 years. He was a professional engineer, a U.S. representative to CIGRE Study Committee 34, and an author of numerous papers on practical relay application. He remained active in the IEEE PES PSRC, where he served as chair in 1979–1980 and contributed to its standards efforts through 2012. Jack was elevated to IEEE Fellow in 1983 "for contributions to protection and metering of high-voltage power systems utilizing both solid-state and electromechanical components."

Stanley E. Zocholl (1929–2012)



Stanley E. "Stan" Zocholl received his B.S. and M.S. degrees in electrical engineering from Drexel University in Philadelphia, PA. He was a member of the IEEE Power Engineering Society and the IEEE Industry Applications Society. He was also a member of the IEEE PES PSRC and chairman of the Relay Input Sources Subcommittee. He joined Schweitzer Engineering Laboratories, Inc., in Pullman, WA, in 1991 as a Distinguished Engineer. He was with ABB Power T&D Company Allentown (formerly ITE, Gould BBC) beginning in 1947, where he held various engineering positions including director of protection technology. He holds over a dozen patents associated with power system protection using solid-state and

microprocessor technology and is the author of numerous IEEE and protective relay conference papers. He was the author of two books, *AC Motor Protection*, and *Analyzing and Applying Current Transformers*. The IEEE PES PSRC Committee recognized him in 1991 for distinguished service.

Walter A. Elmore (1949–2010)



Walter A. Elmore graduated from the University of Tennessee with a B.S.E.E. in 1949. He worked in substation design at Memphis Light, Gas and Water Division until he joined Westinghouse Electric Corporation in 1951 as a district engineer in Seattle, WA. He transferred to the relay-instrument division in Newark, NJ, in 1964, where he became manager of the consulting engineering section. He held that position, following a 1989 merger with ABB, until 1992 in Coral Springs, FL. From 1992 until his retirement in 1996, he held the position of consulting engineer. In August 1996, Walter had the great honor of having the ABB

manufacturing plant in Coral Springs, Florida dedicated to him. He was a past chairman of the IEEE PES Technical Council and past chairman of the IEEE PES PSRC. He was an IEEE Life Fellow and was presented the IEEE Gold Medal for Engineering Excellence in 1989. He was elected as a member of The National Academy of Engineering in 1998. He presented over 100 technical papers, was one of the authors of the *Standard Handbook for Electrical Engineers* (2000), and was the editor and coauthor of two books: *Protective Relaying Theory and Applications* and *Pilot Protective Relaying*.



Clayton H. Griffin (1925–2006)

Clayton H. Griffin graduated from Saint Andrew's School in Middleton, DE. Mr. Griffin retired from the U.S. Navy as a lieutenant commander and served in World War II and the Korean Conflict. He attended Georgia Tech where he received his bachelor's degree in electrical engineering in 1945 and his master's degree in electrical engineering in 1950. While at Georgia Tech, he was president of the Sigma Alpha Epsilon Fraternity. From 1976–1988, Mr. Griffin worked as a visiting professor in the School of Electrical Engineering at Georgia Tech and lectured around the country on electrical engineering. Mr. Griffin had career with Georgia Power for over 40 years and retired as manager

of system protection and control. He was a past chairman (1987-1988) of the IEEE PES PSRC.



John R. Linders received his B.S. degree in electrical engineering (cum laude) from Lafayette College in Easton, PA. His original engineering work was at Bell Telephone Laboratories where he participated in the development of the original negative feedback amplifier. He then joined the Cleveland Electric Illuminating Company as a field test engineer. He progressed to system protective relay engineering supervisor, in which capacity he pioneered in the use of microwave communication for protective relaying and automatic control of electric utility systems. In 1966 he established his consulting practice in Bay Village, OH, to engage in engineering

analysis of industrial and utility electrical systems. John was a past chairman (1961–1962) of the IEEE PES PSRC. He was a registered professional engineer in the state of Ohio and a member of CIGRE.



J. Lewis Blackburn (1913–1997)

J. Lewis "Lew" Blackburn, born in Kansas City, MO, on October 2, 1913, rose to dominance in a field of engineering that has nurtured many prominent leaders in the electric utility industry. He died on February 23, 1997. He received his B.S. from the University of Illinois and started his professional career with the Westinghouse Electric Corporation in 1936. From 1969 through 1978, Lew served as consulting engineer for the relay-instrument division. In 1976, Lew and his staff developed an unrivaled textbook entitled *Applied Protective Relaying*, the dedication of which speaks volumes about his contribution to it.

Lew was active in the IEEE PES PSRC. He served ten years as secretary, two years as vice-chairman, and, beginning in 1970, two years as chairman. With

this exceptional record of service, he left a prominent mark on this committee.

In 1978, he was elevated to received IEEE Fellow. In that same year, he also received the Distinguished Service Award from the PSRC. The Outstanding Teaching Award was extended to Lew by the Education Activities Board of IEEE in 1980. He also received the high honor of the Westinghouse Order of Merit in 1980, and the Lewis Blackburn Room was dedicated in his name at the Coral Springs plant. He received the Centennial Medal from IEEE in 1984 for his long-term contributions to the industry. He was elected to the U.S. National Academy of Engineering, Washington, D.C., in 1997.

Though possessing a slight speech impediment, he went on to become one of the most respected and warmly received engineering lecturers of his time and taught tens of thousands of relaying specialists in their craft. In addition to the obvious courses on relaying, he also regularly taught a course on symmetrical components and systems analysis at Brooklyn Polytech, Stevens University, and Newark College of Engineering.