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Rory.Johnson@ieee.org
253-732-1324

Local Co-Chairman

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Pete.Famighetti@ieee.org
602-510-7376

Registration

Lana Deleon – TECO Westinghouse
DeleonL@TECOwestinghouse.com
512- 218-7409



2017 PPFIC Keynote Speaker

“787 Electric Power Systems and Future Trends in More Electric Airplanes”

ABSTRACT:

This keynote focuses on More Electric Aircraft (MEA). First, aircraft energy systems are reviewed. All power sources in traditional aircraft are introduced and corresponding power consumers are presented. Then, the MEA concept is detailed and its advantages are discussed. A road to get more electrified is emphasized for Boeing 787 Dreamliner. Advanced technology contributions to fuel efficiency and the role of power electronics in MEA are exposed. Finally, a thorough discussion on future trends in MEA will be held. It goes from load electrification to propulsion system through microgrids and interdisciplinary technologies.

BIOGRAPHY:

Jeff is a senior engineer and Technical Fellow who specializes in electrical power systems. He received his BSEE degree from the University of Wisconsin in 1985 with emphases on circuit design and electrical power. He joined the Boeing Company in 1985 as an electrical systems design engineer on the 767 program. He has worked on every commercial model since then. Jeff received his Associate Technical Fellow promotion in 2006 and his Technical Fellow promotion in 2012. His expertise and knowledge spans across aircraft power systems includes design of motors, generators, controls, fault protection, high voltage systems, advanced distribution, power electronics, power feeder standard and was the team leader for electrical safety audits of Alcoa facilities. He retired from Alcoa in 1996. After retiring from Alcoa Ray worked for Fluor Global Services and Duke Energy as a Principal Technical Specialist providing design and consulting electrical engineering for plant power distribution systems and safe work practice programs, standards and assessments/audits.