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NEWS RELEASE

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SUBJECT: Elliott Group Welcomes Dr. Klaus Brun as Director of Research and Development

Jeannette, PA – November 14, 2018 – Elliott Group is pleased to announce that Dr. Klaus Brun has joined the company as Director of Research and Development (R&D). Dr. Brun will lead Elliott’s advanced development teams for all rotating equipment product lines and related systems, including materials engineering, reporting directly to Elliott Group’s Deputy CEO, Toshihiko Miyashita.

Dr. Brun comes to Elliott from the Southwest Research Institute (SwRI) where he was the Director of SwRI’s Machinery Program, one of the leading turbomachinery technology R&D programs in the world. He brings with him more than 20 years of experience, including an extensive background in aerodynamics, thermodynamics, and rotordynamic design and testing. Prior to joining SwRI in 2003, Dr. Brun was the Commercial Director at Alstom Power Systems in Houston, Texas.

“Elliott has a strong legacy of firsts in the development of rotating equipment for oil and gas and industrial applications. I look forward to working with the outstanding R&D team in Elliott’s new, state-of-the-art R&D test facility to design equipment advancements and improve product performance and efficiency for our customers around the world,” said Dr. Brun.

“Dr. Brun’s extensive experience in rotating machinery will help us accelerate product innovation,” said Miyashita, “and I am confident that under his leadership, we will continue to develop technology advancements through applied research over the long term.”

About Elliott Group

Elliott Group is a global leader in the design, manufacture, and service of technically advanced centrifugal and axial compressors, steam turbines, power recovery expanders, and cryogenic pumps and expanders used in the petrochemical, refining, oil & gas, and liquefied gas industries, as well as in power applications. The company employs 2600 people in 40 locations around the world. Elliott Group is a wholly owned subsidiary of Ebara

Corporation, a major industrial conglomerate headquartered in Tokyo, Japan. Ebara employs 16,000 people and has sales of US \$4 billion.

Additional Biographical Information

Dr. Brun is the Director of Research & Development at Elliott Group where he leads a group of over 60 professionals in the development of turbomachinery and related systems for the energy industry. His past experience includes positions in product development, engineering, project management, and executive management at Southwest Research Institute, Solar Turbines, General Electric, and Alstom.

He holds nine patents, has authored over 350 papers, and has published three textbooks on energy systems and turbomachinery. Dr. Brun is a Fellow of the ASME and won an R&D 100 award in 2007 for his Semi-Active Valve invention. He also won the ASME Industrial Gas Turbine Award in 2016 as well as 11 individual ASME Turbo Expo Best Paper awards.

Dr. Brun is the chair of the 2020 Supercritical CO2 Power Cycles Symposium, past chair of the ASME-IGTI Board of Directors, the ASME Oil & Gas Applications Committee, and the ASME CO2 Power Cycle Committee. He is also a member of the API 616 Task Force, the ASME PTC-10 Task Force, the Asia Turbomachinery Symposium Committee, and the Supercritical CO2 Symposium Advisory Committee. Dr. Brun is currently the Executive Correspondent of *Turbomachinery International* magazine and Associate Editor of the *ASME Journal of Gas Turbines for Power*.

Dr. Brun has provided expert testimony to U.S. Congressional Committees and has served as a frequent advisor to the U.S. Department of Energy.