

Arthur L. Williston Medal

MICHAEL L. SIMMONS

*Conferral at the Members and Students Luncheon,
2009 International Mechanical Engineering Congress and Exposition*

THE ARTHUR L. WILLISTON MEDAL was established in 1954 and is presented to an ASME student member or member for the best paper submitted in the annual competition on a subject chosen to challenge their engineering abilities.

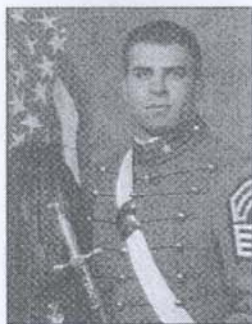
MICHAEL L. SIMMONS (Hanover, Pa.), second lieutenant, U.S. Army, for the paper titled "Sustainable Energy."

Mr. Simmons graduated from the United States Military Academy (West Point, N.Y.) in May 2009 with a bachelor's degree in mechanical engineering. He was commissioned as a second lieutenant in the U.S. Army. Following completion of additional schooling in Georgia and Missouri, Simmons will join the 20th Engineer Brigade at Fort Drum, N.Y.

While at the Academy, Simmons held positions, from the platoon to regimental level, in the United States Corps of Cadets. He was a member of the track team and attended Air Assault School.

Simmons is a member of ASME, the Society of Automotive Engineers and Tau Beta Pi.

His honors include Superintendent's awards and Dean's List throughout his four years at the Academy.



Henry R. Worthington Medal

MANFRED RAUTENBERG

*Conferred at the Fluids Engineering Reception,
2009 International Mechanical Engineering Congress and Exposition*

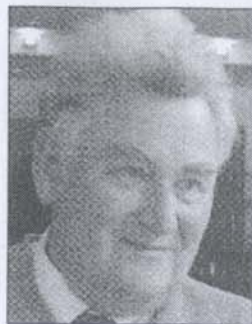
THE HENRY R. WORTHINGTON MEDAL, established in 1980, is bestowed for eminent achievement in the field of pumping machinery including, but not limited to, research, development, design, innovation, management, education or literature.

MANFRED RAUTENBERG, Dr.-Ing. Dr. tech.h.c., professor emeritus, University of Hannover, Germany, for outstanding contributions as a teacher and researcher in the field of hydraulic and thermal radial turbomachinery including centrifugal machinery design and performance, unsteady flow phenomena such as rotating stall and surge, blade vibrations as well as analysis of the behavior of complex compression and expansion systems.

Dr. Rautenberg has been an outstanding teacher and researcher in the field of hydraulic and thermal radial turbomachinery throughout his scientific career. He began his professional activities at Gutehoffnungshütte (Oberhausen, Germany) in 1961 as a development engineer for turbomachinery. In 1962, he returned to the University of Hannover, Germany, where he had studied mechanical engineering, as a research assistant at the Institute of Turbomachinery (1962-73) and, later, professor and division leader (1973-1999). Among his other positions, Rautenberg was project leader for various special research efforts; and was deputy for tour of investigation (1980-99) and chairman of the Enrollment Examination Committee (1981-98), both in the faculty of mechanical engineering.

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Henry R. Worthington Medal (cont.)



Rautenberg is known for the investigation of flow phenomena and loss mechanism in radial turbomachinery; the analysis of unsteady flow in pumps and compressors; modeling of inlet surging in pumps, and rotating stall and surge in compressors; and defining and modeling of hydrodynamic and aerodynamic processes in complex industrial machines and plants for compression and expansion. He also developed advanced and efficient designs of impellers, and diffusers and volutes. Rautenberg's contributions also include his early work on exhaust gas turbochargers with inlet and outlet guide vanes as well as his efforts in the field of refrigeration systems.

Professor emeritus since his retirement from the University of Hannover in 1999, Rautenberg has been

a consultant to Dr.-Ing. Heinrich Hasemann at CCTurbo GmbH, Germany; as well as the automotive industry, including industry suppliers.

He has published more than 290 scientific manuscripts and has advised more than 25 doctoral students.

A member of ASME, Rautenberg has served on International Gas Turbine Institute's Structures and Dynamics, and Turbomachinery technical committees.

Rautenberg is a member of VDI (the Association of German Engineers); Interfluid—the International Congress on Fluid and the International Congress on Fluid Handling Systems; VDMA (the German Engineering Federation); DGF (German Research Foundation); and the Alexander von Humboldt-Stiftung Foundation.

He is also co-founder of the International Committee of Internal Fluid Mechanics and Aerothermodynamics, Beijing; and a member of the International Gas Turbine Congress of the Gas Turbine Society of Japan, the International Congress of Fluid Mechanics (Cairo, Egypt), the Institution of Mechanical Engineers, UK, and the International Association for Hydraulic Research (Belgrade, Yugoslavia).

Rautenberg received his diplom (certificate) and his Doktor-Ingenieur from the Technical University of Hannover, German, in 1961 and 1971, respectively. He holds an honorary doctorate from the Lappeenranta University of Technology, Finland (1999).

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