The Karl W. Böer Solar Energy Medal of Merit, which consists of a bronze medal and a $60,000 prize, is given every other year in honor of Karl Wolfgang Böer, a longtime faculty member of the University of Delaware, founder of its Institute of Energy Conversion, and a distinguished scientist in the field of solar cells.

Among Dr. Yogi Goswami’s many accomplishments, he has done pioneering work in the areas of solar thermal power, solar photocatalytic detoxification and disinfection, passive cooling using underground air tunnels. His solar photocatalytic technology has been successfully commercialized. His work on thermodynamic cycles resulted in a new, innovative combined thermodynamic cycle for power and cooling which is now known as the Goswami Combined Power and Cooling Cycle.

He developed a new combined power/cooling thermodynamic cycle, now known as the Goswami Cycle, to convert low- and mid-temperature heat from solar collectors, geothermal or waste heat to power and refrigeration in the same cycle.

He pioneered the development of solar photocatalytic disinfection to clean water or air using sunlight or artificial light. His invention and development resulted in the first commercial product now being marketed by Lennox Corp. (USA), Thermax India (Asia) and Transformair (USA). This was the first environmental application of sunlight and the first commercial solar application in microbiology. It is a truly multi-disciplinary development involving solar radiation, chemistry, microbiology and medicine.