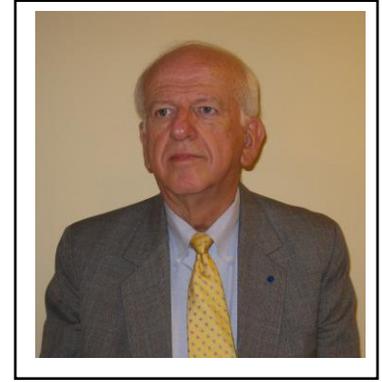


# S. EDWARD LAW

## *Curriculum Vitae*

### Position

Brooks Distinguished Professor *Emeritus*  
Director of Applied Electrostatics Laboratory  
University of Georgia, College of Engineering  
Driftmier Engineering Center  
Athens, GA 30602-4435, USA  
Tel: (706) 542-0866 email: [edlaw@engr.uga.edu](mailto:edlaw@engr.uga.edu)  
URL: <https://ael.engr.uga.edu>



### Technical Specialty

Research & development of electrostatics technology for agricultural, biological & public-health usages; airborne particulate technology for air-pollution abatement; liquid atomization & spray systems; electrostatic crop spraying; engineering electrostatic forces into supplemental mass-pollination systems; textile fiber coatings; biological applications of electric-discharge-generated ozone; ultraviolet-photon-enhanced ozonation systems for wastewater treatment/recycling; ozone exposure & control in floricultural greenhouses; respirable-dust abatement; electrostatic deposition of antimicrobial sprays for surface decontamination in food-processing & public-health.

### Professional Biography

Sidney Edward Law received the B.S., M.S. & Ph.D. degrees in Biological & Agricultural Engineering with minors in mathematics & physics from North Carolina State University under mentor Prof. Henry Bowen. He conducted research on light-scattering properties of optically-dense biological-particulate systems in a Washington, D.C. instrumentation laboratory as a National Academy of Sciences *Postdoctoral Fellow*.

He gained further industrial research experience in charged-particulate technology & electrogasdynamics as *project leader* with Gourdine Environmental Systems, Inc. in New Jersey. He joined the University of Georgia Biological & Agricultural Engineering faculty in 1970, retired in 2006 as *Brooks Distinguished Professor*, was then rehired part-time at the academic rank of *Distinguished Professor Emeritus* & continues to be responsible for research & development of electrostatics for beneficial agricultural, biological, industrial & space applications as Director *Emeritus* of the Applied Electrostatics Laboratory...currently focused upon food-safety, public health & environmental issues.

Dr. Law is an active member of the American Society of Agricultural & Biological Engineers (*ASABE*), the Institute of Electrical & Electronics Engineers (*IEEE*), the Electrostatics Society of America (*ESA*), the Institute of Physics (*IOP*), the International Ozone Association (*IOA*), the Institute for Liquid Atomization & Spray Systems (*ILASS*) & professional honor societies *Sigma Xi*, *Tau Beta Pi* & *Phi Kappa Phi*. He has been awarded the *Creativity in Research Medal* by the University of Georgia Research Foundation (*UGARF*) as well as its *Inventor of the Year Award* & has received from his college the *Brooks Award for Excellence in Research*. Professor Law's engineering developments have been awarded 24 domestic & foreign patents earning over \$1 million royalty income to *UGARF*; the *ASABE* has twice recognized, by international *AE50 Awards*, outstanding commercialized agricultural-machinery products ([www.electrostaticspraying.com](http://www.electrostaticspraying.com)) resulting from his *UGARF*-licensed patents. The *Binational Agricultural Research & Development (BARD)* fund selected as outstanding two of his internationally funded electrostatics-focused research projects in collaboration with UGA botanist Prof. Hazel Wetzstein & Israeli research scientists & engineers at Tel Aviv University, the Volcani Research Center & The Technion. Additionally, Prof. Law's over 140 scientific journal publications & book chapters have received ten *Superior Paper Awards* (top 2 ½ %) from the *ASABE* & the *IEEE*. He is a *Fellow in ASABE* & has received its *Cyrus McCormick Gold Medal Award* ... "for exceptional & meritorious engineering achievement in agriculture". He has also been elected to *Fellow in IEEE* ... "for contributions to electrostatics technology for agricultural & biological applications"... (selection is limited to 0.1% of international membership annually). The *ESA* (having no *Fellow* status *per se*) presented him its *Lifetime Achievement Award* in 1998, its *Educator of the Year Award* in 2011 & its *Honorary Life Member Award* in 2013. In 1996 Professor Law was inducted into the membership of America's *National Academy of Engineering*, and in 2021 he was elected as a *Fellow* of the *National Academy of Inventors*.