

# **Worth Longest, Ph.D.**

**Louis S. and Ruth S. Harris Exceptional Scholar Professor, Department of Mechanical and Nuclear Engineering at VCU College of Engineering**

Engineering East Hall, Room E3248, Richmond, VA, US

Professor Longest works to address significant current challenges in the field of medical aerosols

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## **Areas of Expertise**

Infant Aerosol Delivery, Targeting Inhaled Medications within the Lungs, Inhaled Medications, Respiratory Drug Delivery, Particle Engineering, Inhaler Design and Development, Pediatric Aerosol Delivery, Inhaled Antibiotics, Inhaled Surfactants, Inhaled Anti-inflammatories, Computational Fluid Dynamics, Pharmaceutical Aerosol Product Development Pipeline, Transport Theory, Realistic In Vitro Aerosol Testing, Development of Inhaled Generic Medications

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## **Education**

**North Carolina State University**

Ph.D. Mechanical Engineering

**North Carolina State University**

M.S. Mechanical Engineering

**North Carolina State University**

B.S. Mechanical Engineering

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## **Accomplishments**

**Editorial Board Membership**

Journal of Aerosol Science

**Editorial Board Membership**

Journal of Aerosol Medicine and Pulmonary Drug Delivery

**Louis S. and Ruth S. Harris Exceptional Scholar Professor**

Endowed Professorship

**Fellow, American Institute for Medical and Biological Engineering**

2015

**Qimonda Assistant/Associate Professor of Mechanical Engineering Endowed Professorship**

2007 - 2010

**Graduate Assistance in Areas of National Need (GAANN) Fellowship**  
2000 - 2001

**United Technologies Graduate Engineering Award**  
2001

**NSF Graduate Research Trainee Fellowship in Scientific Computation**  
1998 - 1999

**North Carolina Supercomputing Center Cray/SGI Fellowship**  
1999

**U.S. Environmental Protection Agency Complimentary Service Award**  
1998

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