

## Next Breath & WFF 2021

### From Water to Air; Scientific Pathways towards a Clearer, Cleaner Future.

**Anthony J. Hickey**  
Distinguished Fellow, RTI International



Talk Title — Breathing better in a dirty world: What airborne infectious disease teaches us

*"The Lungs are a window to the environment. Nature can instruct us on keeping the window clean."*

Anthony Hickey

Dr. Hickey is Distinguished Fellow, at RTI International, Professor Emeritus of Pharmacoengineering and Molecular Pharmaceutics and Adjunct Professor of Biomedical Engineering at the [University of North Carolina at Chapel Hill](#). He obtained Ph.D. and D.Sc. degrees in pharmaceutical sciences from [Aston University, Birmingham, UK](#). He is a Fellow of the [American Association for the Advancement of Science](#), the [American Association of Pharmaceutical Scientists](#), the [Royal Society of Biology](#) and, the [Royal Society of Medicine](#). He received the Research Achievement Award of the Particulate Presentations and Design Division of the [Powder Technology Society of Japan](#), the Distinguished Scientist Award of the [American Association of Indian Pharmaceutical Scientists](#), the [David W Grant Award](#) in Physical Pharmacy of the [American Association of Pharmaceutical Scientists](#); Thomas T Mercer Joint Prize for Excellence in Inhaled Medicines and Pharmaceutical Aerosols of the [American Association for Aerosol Research](#) and the [International Society for Aerosols in Medicine](#), the [Ralph Shangraw Memorial Award](#) for Excipient and Excipient Technology of the [International Pharmaceutical Excipient Consortium Foundation](#) and the [Margaret Elliott Knox Award](#) for Excellence from RTI International. He is founder (and formerly President and CEO) of [Cirrus Pharmaceuticals, Inc.](#), acquired by [Kemwell Pharma](#) (2013); founder (formerly CSO, 2002-2007) of [Oriel Therapeutics, Inc.](#), acquired by [Sandoz](#) (2010) and founder and CEO of [Astartein, Inc.](#) (2013-present); Vice Chair of the [Pharmaceutical Dosage Forms Expert Committee](#) of the [United States Pharmacopeia](#) and formerly Chair of the [Aerosols Expert Committee](#) of the USP. Dr. Hickey is highly published (over 300 papers) and cited author having edited or authored 16 books on pharmaceutical aerosols, particulates, manufacturing and complex systems. He holds over 25 patents and conducts multidisciplinary research programs in the field of pulmonary drug and vaccine delivery for the treatment and prevention of a variety of diseases.

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