

Nature@Noon

Thinking Like a Tree: Dendrites and One Man's Search for Universality in Nature and Engineering

A Zoom presentation by Dr. Michael Kozicki

Wednesday, February 24, noon-1 p.m.

Register via Zoom [at this link](#).

Branching patterns are ubiquitous in nature. You can find them in the structure of trees, the bronchial tubes of the lungs, the connections between neurons in the brain and even in the forking of lightning bolts and eroded river beds. They are known as dendrites, a work that come from the Greek for "tree."

Dendrites have been a career obsession for Dr. Michael Kozicki, professor of electrical engineering at Arizona State University. For more than a quarter of a century, Kozicki has studied the formation of and properties of dendrites in ionic materials and applied some of his insights in wildly divergent innovations including improving the efficiency of electronic systems and thwarting counterfeiting in food and consumer goods

Join Kozicki as he takes you on a fascinating journey into one of the most common and magical phenomena in nature.



Dr. Michael Kozicki

Dr. Michael Kozicki is a professor in the School of Electrical, Computer and Energy Engineering at Arizona State University. He develops new materials, processes and device structures for next-generation integrated circuits and systems. He holds more than 60 U.S. Patents in ionic devices, resulting in his election to Fellow of the National Academy of Inventors, and has published extensively on solid-state electronics.



Nature@Noon is a series of workshops that explores the collection of ASU's new NatureMaker library and its potential to inspire sustainable innovation. NatureMaker is a collaboration between the Biomimicry Center and the ASU Library.