



ASCLD FRC Lightning Talks

Dogs and Sensors for Volatile Organic Chemicals & Scent Detection

Thursday May 18th, 2021, 1:00 EST, Zoom
Register at: <https://vcu.zoom.us/meeting/register/tZMpc-qoqTgqH9wFJy41cQLUCgosXSswSbBW>



Visualizing how the dog smells: the external aerodynamics of canine olfaction

Matthew Staymates, NIST

This talk will show flow visualization results of an anatomically-correct artificial dog nose (female Labrador Retriever). As a form of biomimicry, these lessons learned from the dog nose helped us improve the performance of commercially-available vapor “sniffers” by a factor of 18.



Identifying canine odorants towards developing reliable dog and sensor calibrants

Ken Furton, Florida International University

This talk will present scientific results of the abilities of dogs to detect ultra trace volatile organic compounds from crime scenes including human scent and drug odors and how identifying the odorants used by canines can inform the development of next gen training materials and calibrants for dogs and sensors.