

## ICTS Colloquium

Title : Masking it up: Electrocharged face piece respirator fabrics using common materials and simple methods.

Speaker : Mahesh M Bandi (Okinawa Institute of Science and Technology Graduate)

Date : Monday, June 22, 2020

Time : 3:30 pm

Abstract : I did not know of N95 filtering facepiece respirators until late February 2020, when I read media reports for the first time that they present the only mask design for protection against the SARS-Cov-2 virion. Academic curiosity initially led me to study their functionality, and when N95s became scarce I wanted to see if I could make one myself. In this talk, I will share a story of how, starting about mid March, I started building a cotton candy machine in my garage with the intent of fabricating electrocharged filtration fabrics. I will go over the basic physics and design criteria underlying the cotton candy principle, and show how anyone can make their own N95 quality respirators from commonly available materials and easily replicable methods.

Venue : Online colloquium

Please click on the below link to join the meeting

<https://us02web.zoom.us/j/88240506908?pwd=MXMrMjNVekRlVXJ3WHpLbmxLTjQ0dz09>

Meeting ID: 882 4050 6908

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