

**Master's Thesis Defense Announcement**  
**Mechanical and Aerospace Engineering Department**  
**University of Texas at Arlington**

TITLE

By

**Dhananjay Mishra**

Thesis Advisor: Dr. Ankur Jain

1 pm, Wednesday, 4/24/2019

Wolf Hall, 413

**Abstract**

Thermal Runaway is a complicated problem that has caused many catastrophic accidents in recent times. Since this phenomenon is related to Li-Ion batteries almost everything that we use in our day today lives are at risk. My motivation for this work has been to explore different parameters which can trigger and avoid Thermal Runaway inside a battery pack consisting of multiple cells. These factors include thermal conductivity of the medium, cell gap etc. Apart from this I also tried to study cell behavior under different conditions and various electrolyte concentrations.