

THE WILLIAM E. BOEING DEPARTMENT OF
AERONAUTICS & ASTRONAUTICS

... welcomes ...

SATYA ATLURI

TEXAS TECH UNIVERSITY

*Damage Tolerance of Heterogeneous Material
Systems With Complex Micro-Structures*

In this talk I will present my recent research on heterogeneous materials systems with complex microstructures. Notions of direct numerical simulations of complex microstructures using Trefftz, Quasi-Trefftz, and Symmetric Galerkin BEM methods will be discussed. Near-Exact and highly efficient elastic-plastic homogenizations of low-mass metallic cellular materials with architected microstructures will be presented. Damage propagation using the MLPG-Eshelby Method will be presented.

The William E. Boeing Chair's Distinguished Seminar Series brings scholars of national and international reputation who have made an impact in the field of aerospace engineering and beyond. This seminar series will cover a diversity of topics of current interest to those in academia, industry and the general public. It is our hope that these monthly seminars will encourage an exchange of ideas and bring aerospace engineering and science to the forefront.



WILLIAM E. BOEING
DEPARTMENT OF AERONAUTICS & ASTRONAUTICS
UNIVERSITY of WASHINGTON

Monday, March 06, 2017 @ 4:00pm
Electrical Eng. Bldg. Rm 105 | UW Seattle

Visitor RSVP: contact@aa.washington.edu

THE WILLIAM E. BOEING DEPARTMENT OF
AERONAUTICS & ASTRONAUTICS

... Distinguished Guest Speaker ...



SATYA ATLURI
TEXAS TECH UNIVERSITY

*Presidential Chair & University Distinguished Professor
Professor, Mechanical Engineering
Texas Tech University*

Satya Atluri, who is currently employed by Texas Tech University, has mentored nearly 700 students, postdocs, and visiting professors, in his 50 years of academic career. The details of his career may be found at:

<http://www.depts.ttu.edu/coe/CARES/atluri.php>

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