



הטכניון - מכון טכנולוגי לישראל
TECHNION - ISRAEL INSTITUTE OF TECHNOLOGY
הפקולטה להנדסת מכונות
Faculty of Mechanical Engineering

סדרת הרצאות ע"ש ישראל פולק
The Israel Pollak Distinguished Lecture Series
תשע"א 2011

The Faculty of Mechanical Engineering cordially invites you to a series of lectures to be presented by

Prof. Alan Needleman
Computational Materials Modeling
The Department of Materials Science
University of North Texas



Alan Needleman completed his Ph.D. in Engineering at Harvard University in 1970. He then spent five years in Applied Mathematics at MIT before moving to Brown University where he became Florence Pirce Grant University Professor in 1996.

He retired from Brown in June 2009 and is now Professor of Materials Science and Engineering at the University of North Texas.

His contributions include the development of a ductile fracture computational methodology, the development of cohesive surface methods for fracture analysis and creation of a framework that enables using discrete dislocation plasticity to solve general boundary value problems.

Professor Needleman was awarded a Guggenheim Fellowship in 1977, and is a member of the National Academy of Engineering and of the American Academy of Arts and Sciences. He has been awarded the Prager Medal by the Society of Engineering Science, the Drucker Medal by the American Society of Mechanical Engineers and has been recognized by ISI as a Highly Cited Author in both the fields of Engineering and Materials Science. Professor Needleman also holds honorary doctorates from the Technical University of Denmark and Ecole Normale Supérieure de Cachan (France).

Lecture 1

Prediction of Ductile Fracture Surface Roughness

Thursday, March 10, 2011 at 14:30

Mechanical Engineering Auditorium (Lady Davis Bldg., room 250)

Lecture 2

When Size Matters: Continuum Mechanics and Size Dependent Phenomena

Monday, March 14, 2011 at 14:30

Mechanical Engineering Auditorium (Lady Davis Bldg., room 250)

Refreshments will be served before the lectures