Seminar im Rahmen des GRK 2078

Referee:	**Dr. Dilip K. Banerjee** Mechanical Performance Group, Materials Science and Engineering Division Material Measurement Laboratory, National Institute of Standards and Technology (NIST), Gaithersburg, Maryland 20899, U.S.A.
Date:	Friday, July 13, 2018
Time:	14:30h
Location:	Bldg. 10.23, 3rd Floor, Room 308.1 (KM-Seminar Room)
Title:	**Optimum Mechanical Test Specimen Design for Metal Forming Applications**

Abstract

This presentation will focus on the current work at NIST on developing optimum specimen designs by combining test measurement data (such as measured strain and displacement data from DIC, force data from MTS etc.) with finite element analysis (FEA) models along with mathematical optimization software. Two examples of this ongoing work will be discussed: developing a) an optimum design of a AISI 1008 equi-biaxial tensile test specimen and b) optimum designs of aluminum alloy 2024 and AISI 1008 steel uniaxial in-plane compression test specimens, which exhibited three different buckling modes.

Alle Interessenten sind herzlich eingeladen.

Prof. Dr.-Ing. Thomas Böhlke
(Sprecher des GRK 2078)