

Veranstaltungen

Ingenieurwissenschaften

Fakultät für Ingenieurwissenschaften
Abteilung Maschinenbau und
Verfahrenstechnik
Lehrstuhl für Fluidodynamik
Prof. Dr.-Ing. Andreas Kempf

Referent:

Venkatramanan Raman
Associate Professor
Dept. of Aerospace Engineering and
Engineering Mechanics
The University of Texas at Austin

Thema:

**“Practical Issues in Large Eddy Simulation
of Turbulent Combustion“**

Abstract:

Large eddy simulation (LES) has become a key simulation tool for complex reacting flows. In spite of its success in reproducing experimental flames, several fundamental issues regarding LES formulation and application remain unanswered. In this talk, we will review a key aspect of LES, the coupling between numerical errors and models. It will be shown that numerical errors have first order impact on subfilter modeling, and invalidate the dynamic modeling approach. Strategies for error minimization will be discussed. Finally, a reformulation of LES that will allow a rigorous statistical basis will be introduced.

Zeit:

Freitag, 19. Juli 2013, 14:00 Uhr

Ort:

NETZ 2.42

**Alle Interessenten sind herzlich
eingeladen.**