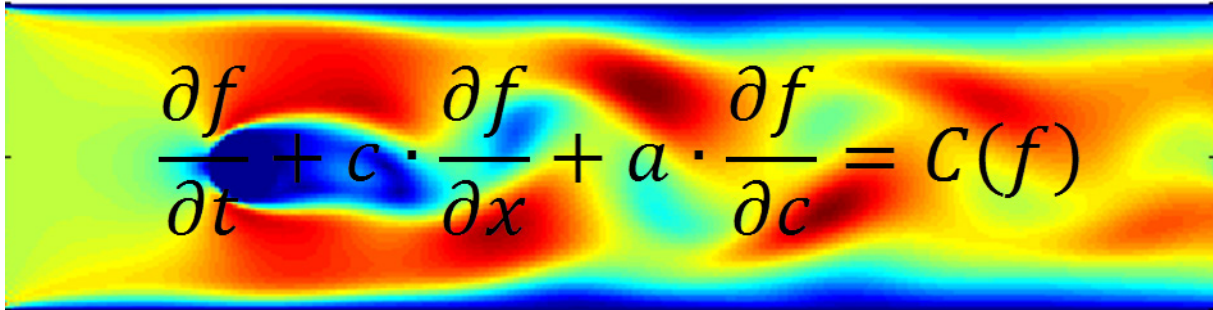


# International Summer School



## Numerical Simulation: Energy Storage

### Topics:

- Numerical methods for solving ODEs and PDEs
- Practical applications of PDEs
- Finite Difference/Volume Method
- Research examples from “Physicochemical Fundamentals in Energy Storage: a Simulation Driven Approach,” a module from Energy and Transport Sciences Laboratory, Mechanical Engineering, Texas A&M University

### Participants:

Mechanical Engineering students from DHBW Mannheim, Germany and Texas A&M University (TAMU), College Station

### Summer School Leaders:

Dr. Volker Schulz – DHBW Mannheim, Professor of Mechanical Engineering and Vice Dean of Engineering

Dr. Partha P. Mukherjee – Texas A&M University, Assistant Professor of Mechanical Engineering, and Director of the Energy and Transport Sciences Laboratory (ETSL)

### When & Where:

*September 29<sup>th</sup> to October 3<sup>rd</sup>, 2014* (Mechanical Engineering Office Bldg.: MEOB 501)

*Monday, September 29<sup>th</sup>* Kick-Off: BBQ Social (all participants)

*Monday to Friday* Morning: Lectures  
Afternoon: Hands-on sessions

*Wednesday, October 1<sup>st</sup>* Engineering Innovation Center visit and lunch (all participants)

*Friday, October 3<sup>rd</sup>* Concluding lunch (all participants)

For detailed course outline and application, please contact:

- Dr. Volker Schulz at [volker.schulz@dhbw-mannheim.de](mailto:volker.schulz@dhbw-mannheim.de) (DHBW students)
- Dr. Partha P. Mukherjee at [pmukherjee@tamu.edu](mailto:pmukherjee@tamu.edu) (TAMU students)

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