

Scientific Program

Plenary Lectures

1. **Athanasios C. Antoulas** (Houston, Texas)
Data-driven model reduction in the Loewner framework
2. **Annalisa Buffa** (Pavia, Italy)
Isogeometric analysis: mathematical foundations
3. **Pierre-Antoine Absil** (Louvain, Belgium)
Geometric methods for recommender systems
4. **Harald Garcke** (Regensburg)
Efficient computation of curvature driven interface evolution
5. **Stefanie Reese** (Aachen)
Scale transitions in multi-field problems -
applications in production technology and biomechanics
6. **Jörg Wallaschek** (Hannover)
Nonlinear vibrations in mechanical engineering
7. **Pedro Ponte Castañeda** (Getafe, Madrid)
Constitutive theories for magneto- and electro-active composites at finite strain
8. **Peter Schmid** (Palaiseau, France)
Stability, receptivity and control of shear flows

Special Lectures

- **Ludwig Prandtl Memorial Lecture**

Cameron Tropea (Darmstadt)
Experimental fluid mechanics: quo vadis?

- **Public Lecture**

Joachim Hornegger (Erlangen)
"The Beatles" and their impact on modern medical imaging