Sunday, September 6

18.00-22.00	**Registration**
19.00-20.45	**Dinner**
21.00-21.05	**Opening:** *M. Rozložník, M. Bulíček*
21.05-21.20	*V. Ciml:* SlidesLive

Monday, September 7

9.00-10.40	**Chair:** *Z. Strakoš*
9.00-9.50	*V. Mehrmann:* Model reduction: analysis, numerical solution and real world applications Lecture I: Model reduction, a survey
9.50-10.40	*M. Hinze:* Mathematical aspects of proper orthogonal decomposition (POD) Lecture I: POD for time-dependent PDEs (emphasis on numerical analysis)
10.40-11.10	**Coffee – Tea**
11.10-12.00	**Chair:** *I. Pultarová*
11.10-12.00	*V. Mehrmann:* Model reduction: analysis, numerical solution and real world applications Lecture II: Preservation of physical properties in model reduction methods
12.00-15.30	**Lunch break**
15.30-16.00	**Coffee – Tea**
16.00-17.40	**Chair:** *W. Jäger*
16.00-16.50	*M. Hinze:* Mathematical aspects of proper orthogonal decomposition (POD) Lecture II: POD in PDE constrained optimization (with error analysis)
16.50-17.40	*V. Mehrmann:* Model reduction: analysis, numerical solution and real world applications Lecture III: Model reduction in real world and industrial applications
18.30-21.00	**Dinner**

Tuesday, September 8

9.00-10.40	**Chair:** *M. VOHRALÍK*
9.00-9.50	*M. HINZE:* Mathematical aspects of proper orthogonal decomposition (POD) Lecture III: MOR in applications - towards parametric MOR for nonlinear PDE systems in networks
9.50-10.40	*J. M. NORDBOTTEN:* Understanding discretization error, solver error, and model error for deformable porous media
10.40-11.10	**Coffee – Tea**
11.10-12.00	**Chair:** *E. ROHAN*
11.10-12.00	*S. GUGERCIN:* Structure-preserving interpolatory model reduction for linear and nonlinear dynamical systems
12.00-15.30	**Lunch break**
15.30-16.00	**Coffee – Tea**
16.00-17.40	**Chair:** *E. SÜLI*
	Presentation of the project MORE Part 1
16.00-16.50	*J. MÁLEK:* Implicitly constituted materials: from modelling towards PDE-analysis
16.50-17.20	*K. R. RAJAGOPAL:* The mechanics and mathematics of bodies described by implicit constitutive equations
17.20-17.30	*A. JANEČKA:* Euler-Bernoulli type beam theory for elastic material with nonlinear response in the small strain range
17.30-17.40	*G. TIERRA:* Simulations of flows of fluids characterized by a non-monotone implicit constitutive relation
18.30-20.00	**Dinner**
20.00-20.30	**RSJ Poster blitz introductory session** *P. K. GOYAL:* Interpolatory model reduction for bilinear descriptor systems *C. HIMPE:* Optimization-based combined reduction for nonlinear systems *M. ISOZ:* Gravity-driven rivulet flow on a slowly varying substrate *V. JANOVSKÝ:* Numerical analysis of a lumped parameter friction model *M. LANZENDÖRFER:* Some open problems in piezoviscous lubrication *Y. LU:* Model order reduction via a balanced truncation-interpolation approach for gas networks *B. MÜLLER:* Model reduction for geometrically nonlinear elasticity *P. MINAKOWSKI:* A novel Eulerian approach to crystal plasticity *M. MOLDENHAUER:* Optimal hip implant positioning *V. ORAVA:* Multi-phase modeling of non-isothermal reactive flow in fluidized bed reactors *J. PAPEŽ:* Algebraic error in Cascadic Conjugate Gradient Method *I. PULTAROVÁ:* Spectral properties of stochastic Galerkin matrices *E. ROHAN:* Modelling tissue perfusion - hierarchical models and identification *H. ŠVIHLOVÁ:* Determination of pressure data from velocity data with a view towards its application in cardiovascular mechanics *J. ŽABENSKÝ:* Completion of the existence theory for unsteady flows with a pressure- and shear-dependent viscosity
20.30-21.30	**RSJ Poster session – wine & cheese**

Wednesday, September 9

9.00-10.40	**Chair***: D. HENRION*
9.00-9.50	*R. W. FREUND:* Krylov subspace-based model order reduction of RCL circuit equations
9.50-10.40	*L. CHAMOIN:* Verification and effectivity of PGD model reduction
10.40-11.10	**Coffee – Tea**
11.10-12.00	**Chair:** *M. BULÍČEK*
11.10-12.00	*U. MAAS:* Hierarchical concepts for model reduction for reacting flows based on low-dimensional manifolds
12.00-15.30	**Lunch break**
15.30-16.00	**Coffee – Tea**
16.00-17.40	**Chair:** *E. FEIREISL*
16.00-16.50	*J. -F. GERBEAU:* Approximated Lax pair for nonlinear evolution equations
16.50-17.40	*K. R. RAJAGOPAL:* Modeling the flow of traffic
19.00-22.00	**Dinner at restaurant Spilka**

Thursday, September 10

9.00-10.30	**Chair***: V. PRŮŠA*
9.00-9.50	*R. CODINA:* Reduced-order subscales for POD models in fluid mechanics
	Presentation of the project MORE Part 2
9.50-10.10	*J. HRON:* Mixed formulations, numerical solutions and computations for viscous-plastic flows using implicit material relations
10.10-10.30	*M. VOHRALÍK:* A posteriori error estimates and adaptivity for Stokes flow with implicit constitutive laws
10.30-11.00	**Coffee – Tea**
11.00-12.10	**Chairs:** *M. HINZE, W. JÄGER, Z. STRAKOŠ*
11.00-12.00	**Panel discussion**
12.00-12.10	**Final words**
12.15-13.15	**Lunch**
13.30	**Bus departure**