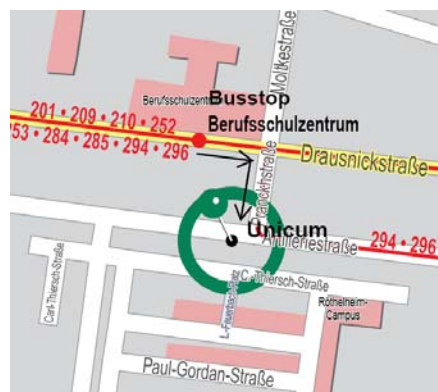


**SUNDAY, OCTOBER 9, 2011**

18:00– 20:00	Welcome reception at the Unicum
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Public transportation by bus to the Unicum  
Sunday evening:

Depart from Erlangen-“Hauptbahnhof” to “Berufsschulzentrum”  
Bus line 285: 17:27 / 17:57



## MONDAY, OCTOBER 10, 2011

08:30	<i>Registration</i>	
08:50	<i>Opening</i>	
	<b><i>Topology Optimisation</i></b>	
09:00	<u>Achtziger, W.</u> ; Hoheisel, T.; Kanzow, C.	On Topology Optimization with Vanishing Stress Constraints
09:30	<u>Evgrafov, A.</u>	Non-conforming discretizations of topology optimization problems
10:00	<u>Wein, F.</u>	Self-Penalization in Topology Optimization
10:30	<i>Coffee Break</i>	
	<b><i>Models and Materials</i></b>	
11:00	<u>Ganghoffer, J-F.</u> ; <u>Sokolowski, J.</u>	Surface growth in the framework of shape optimization: a model based on surface energy
11:30	<u>Rodrigues, H.C.</u> ; Guedes, J.M.; Bendsøe, M.P.; Fernandes, P.R.	Hierarchical optimization of material and structure: Recent developments and future directions
12:00	<u>Andreasen, C.</u> ; Sigmund, O.	Multiscale optimization of saturated poroelastic actuators
12:30	<i>Lunch Break</i>	
	<b><i>Algorithms</i></b>	
14:00	<u>Guest, J.</u>	Projection-Based Algorithms for Topology Optimization
14:30	<u>Lazarov, B.</u> ; Aage, N.; Elesin, Y.; Sigmund, O.	Parallel computing in topology optimization
15:00	<u>Stolpe, M.</u>	Truss topology design by Langrangian decomposition
15:30	<i>Coffee Break</i>	
	<b><i>Sensitivity Analysis</i></b>	
16:00	<u>Materna, D.</u> ; Barthold, F.J.	Sensitivity analysis of dual problems in nonlinear elasticity with applications to error analysis
16:30	<u>Friederich, J.</u> ; Leugering, G.; Steinmann, P.	Adaptive h-refinement based on topological sensitivities on finite element meshes
17:00	<u>Barthold, F.J.</u>	Shape sensitivity analysis in the extended finite element method
17:30	<i>Closing</i>	
19:30	Guided tour through Erlangen with the Erlangen night watchman followed by a reception at the old university library	

## TUESDAY, OCTOBER 11, 2011

08:50	<i>Opening</i>	
	<b>Level-Set Methods</b>	
09:00	<u>Allaire, G.</u>	Geometrical constraints in the level set method for shape and topology optimization
09:30	Otomori, M.; Yamada, T.; Izui, K.; Nishiwaki, S.	A level set-based topology optimization for mechanical structures
10:00	<u>Andrä, H.</u> ; Matei, I.	Topology Optimization for Castings Using the Topological Gradient and a Level-Set Method
10:30	<i>Coffee Break</i>	
	<b>Materials Optimisation</b>	
11:00	Czarnecki, S.; <u>Lewiński, T.</u>	On the free material design formulations of the compliance minimization of elastic structures
11:30	<u>Stingl, M.</u>	An efficient two-scale approach for the optimal design of locally periodic materials
12:00	<u>Jayachandran, K.P.</u> ; Guedes, J.M.; Rodrigues, H.C.	Structural and orientational optimization for piezoelectric materials
12:30	<i>Lunch Break</i>	
	<b>Shape Optimisation</b>	
14:00	Masching, H.; Fischer, M., Firl, M.; Bletzinger K.-U.	Parameter Free Optimization of Large Scale Lightweight Composite Structures
14:30	<u>Hojjat, M.</u> ; Stavropoulou, E.; Wüchner, R.; Bletzinger K.-U.	Shape Optimal Design for Elastic-Wall-Bounded Flows
15:00	<u>Gerzen, N.</u> ; Barthold, F.J.	Shape optimisation analysing the inner structure of sensitivity matrices
15:30	<i>Coffee Break</i>	
	<b>Methods</b>	
16:00	Gao, T.; Zhang, W.; <u>Duysinx, P.</u>	A bisection parameterization scheme for large-scale discrete optimal orientation problems of the laminates and composite structures
16:30	<u>Burczyński, T.</u>	Bio-inspired optimization techniques: overview and applications
17:00	<u>Klarbring, A.</u> ; Torstenfelt, B.; Satha, G.	Dynamical systems, bone remodelling and nutrient driven topology optimization
17:30	<i>Closing</i>	
18:30	Conference Dinner, Steinbach Bräu, Erlangen	

## WEDNESDAY, OCTOBER 12, 2011

09:20	<i>Opening</i>	
	<b><i>Regularisation</i></b>	
09:30	<u>Stavropoulou, E.</u> ; Hojjat, M.; Wüchner, R.; Bletzinger, K.-U.	Mesh regularization in parameter-free shape optimization for fluid, structure and coupled problems
10:00	<u>Scherer, M.</u> ; Steinmann, P.	A regularization technique for node-based structural shape optimization
10:30	<i>Coffee Break</i>	
	<b><i>Models and Materials</i></b>	
11:00	Le, C.; Bruns, T.; <u>Tortorelli, D.A.</u>	Material microstructure optimization for energy wave management
11:30	<u>Leugering, G.</u> ; Novotny, A.A.; Perla Menzalla, G.; Sokolowski, J.	On Shape Optimization for an evolution coupled system
12:00	<u>Sigmund, O.</u>	Some topology optimization problems in optics
12:30	<i>Lunch Break</i>	
	<b><i>Topology Optimization</i></b>	
14:00	<u>Pedersen, C.</u> ; Clausen, P.M.; Allinger, P.	Coupling and Extending Structural Topology Optimization to Associated Disciplines
14:30	<u>Amir, O.</u>	Topology optimization of reinforced concrete structures
15:00	<u>Schevenels, M.</u> ; Lazarov, B.; Jansen, M.; Lombaert, G.; Sigmund, O.	Robust topology optimization accounting for geometric imperfections
15:30	<i>Coffee Break</i>	
	<b><i>Dynamics</i></b>	
16:00	<u>Held, A.</u> ; Seifried, R.	Integrated topology optimization of elastic multibody systems using model reduction methods
16:30	<u>Leyendecker, S.</u> ; Koch, M.; Maas, R.	Optimisation and optimal control of multibody dynamics
17:00	<i>Closing</i>	