

Dear Ladies and Gentlemen, Dear friends!

It is my great pleasure to invite you to this one-day symposium on adaptive lightweight structures and technologies. This meeting provides a unique opportunity to exchange with leading scientists and long-time friends and partners of CMASLab on actual topics embracing modeling, design, technology aspects. Applications focus on adaptive structures in ultra-lightweight space structures, morphing and mobility solutions.

You are all very welcome to join this event! Sincerely yours Paolo Ermanni



Prof. Dr. Paolo Ermanni Director of Composite Materials and Adaptive Structures Lab (CMASLab) www.structures.ethz.ch

Symposium Program

Time	Speaker	Title
08.00-08.30		Coffee & Registration
08.30-08.40	Paolo Ermanni ETH Zurich, Switzerland	Welcome and Opening
08.40-09.20	Sergio Pellegrino Caltech, USA	Ultralight Deployable Space Structures
09.2010.00	Paul Weaver University of Limerick, Ireland	Varicomposites: Spatially & Temporally Variable Properties for Highly Efficient and Sustainable Performance
10.00-10.30		Coffee Break
10.30-11.10	Joanna Wong University of Calgary, Canada	Additive Manufacturing of Lightweight Composite Shells for Deployable Space Structures
11.10-11.50	Véronique Michaud EPFL, Lausanne	Towards tough, healable and recyclable composite materials
11.50-12.30	Sandro Wartzack University of Erlangen- Nürnberg, Germany	Development of lightweight user-centered mobility solutions
12.30-13.30		Lunch
13.30-14.10	Alexander Hasse Chemnitz University of Technology, Germany	A pseudo-kinematic approach for the design of shape-adaptive compliant mechanisms
14.10-14.50	Dirk Mohr ETH Zurich, Switzerland	Recurrent Neural Network-based Design of Plate-Lattice Materials
14.50-15.20		Coffee Break
15.20-16.00	Urban Fasel Imperial College, London	Morphing wings – from sparse model discovery to control co-design
16.00-16.40	Andres Arrieta Purdue University, USA	A short journey into the programming of shape shifting structures
16.40-17.00	Kristina Shea ETH Zurich, Switzerland	Closure - "Movement"