

# First International E-coating Workshop

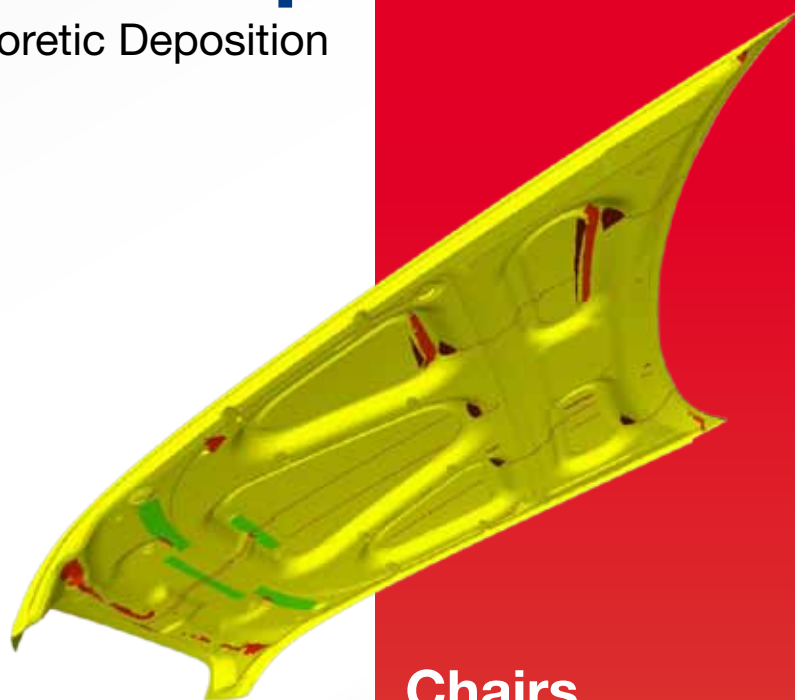
Modern Handling of Electrophoretic Deposition



**St. Valentin, Austria**  
**June 6-7, 2011**

## Program

- Vehicle development cycle
- Interaction with other departments (crash,...)
- Detection of problem areas
- Simulation technologies
- Modern E-coat lines and their optimization



## Chairs

Dr. Jencus (VW)

Dr. Rensink (Adam Opel AG -  
General Motors Company)

Mr. Belis (Elsyca)

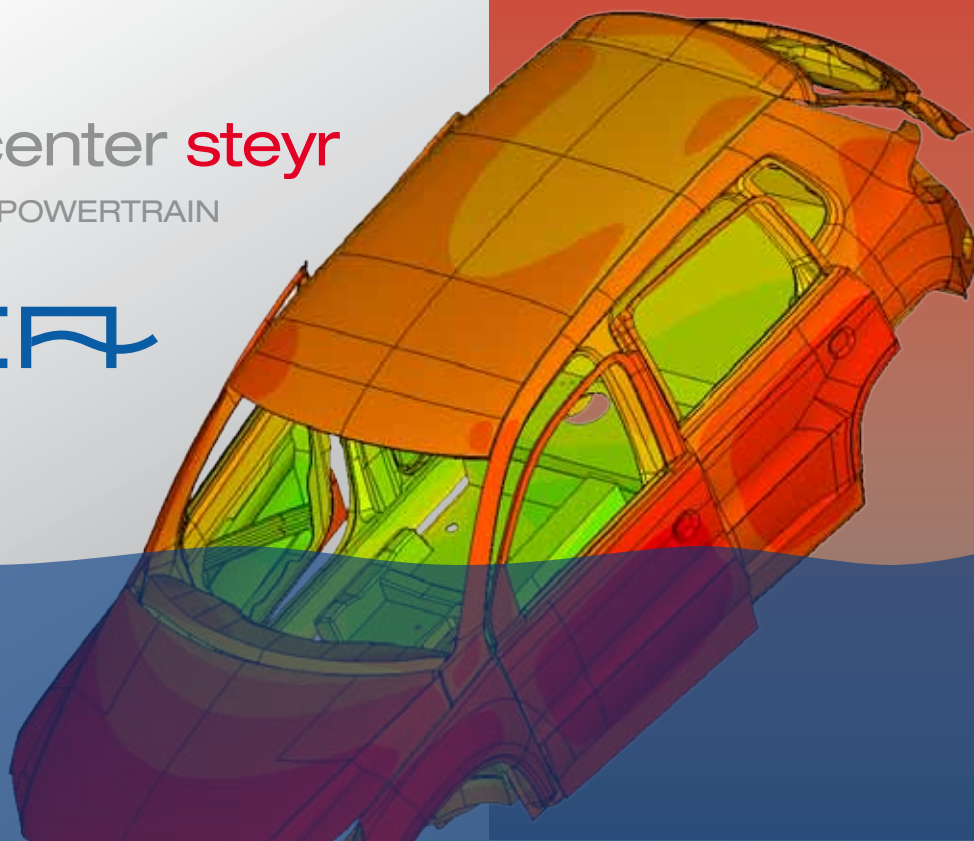
Mr. Schifko (ECS)

presented by:

**engineering center steyr**

A COMPANY OF MAGNA POWERTRAIN

**elsyca**  
electrochemical intelligence



# AGENDA

## First International E-coating Workshop

Monday, June 6		Speaker
09:00	Registration	
09:30	Welcome	B. Unger, ECS
10:00	Introduction to workshop, introduction of all attendees	R. Belis, Elsyca
10:15	Dip Painting with ALSIM: Quick location of gas bubbles and liquid pockets	M. Schifko, ECS
10:40	Coffee Break	
11:10	Dip Painting with ALSIM: Live demo	M. Schifko, ECS
11:30	Comparison of hydrostatic and hydrodynamic simulations with experiments	Dr. D. Rensink, Opel/GM
12:30	Lunch Break	
13:45	Taking the guesswork out of e-coating	R. Belis, Elsyca
14:30	Simulation of the thermal expansion in the oven after e-coating	Felix, VW
15:10	Coffee Break	
15:45	E-coating process and corrosion protection by VW	Dr. P. Jencus, VW
16:30	Investigation of a Ni free pretreatment process	A. Kreukels, Nedcar
17:00	End of 1st day's workshop	
17:30	Transfer evening event Gallhuberhof	

Tuesday, June 7		Speaker
09:00	Wrap up 1st day	R. Belis, Elsyca
09:15	Roadmap: integrated approach: Alsim + Elsyca	R. Belis, Elsyca
09:45	Draining- and E-coating-simulation at Audi	Dr. S. Zeitler, Audi
10:15	Coffee Break	
10:45	The Automatic Mesh Data Preparation MERGE	M. Schifko, ECS
11:15	Theorie: Isogeometric analysis a unifying framework for analysis and design	Prof. Jüttler, JKU Austria
11:45	ECS tour	
12:45	Lunch Break	
13:45	Proving ground (fair weather)	
15:00	Workshop: ALSIM / MERGE / ELSYCA	
16:00	Farewell	

