

# High-Performance SMC

Creating the next Generation of SMC for Cost-Efficient Lightweight Applications

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## Workshop

### When?

Wednesday  
February 3rd, 2016  
09:00 h – 14:00 h

### Where?

Fraunhofer Institute for Production Technology, IPT  
Room "Grosser Hoersaal"  
Steinbachstrasse 17  
52074 Aachen, Germany

## SHORT DESCRIPTION OF THE WORKSHOP

### Initial Situation, HP- SMC Definition and targeted Applications, Projects

SMC (Sheet Molding Compound) is since many years a proven and first choice solution for replacing metal parts. The drive to further weight savings and significant reduction in CO<sub>2</sub> emissions require a next generation of **High-Performance SMC** with short and continuous fiber reinforced systems using both carbon and glass fibers with customized resin compounds. **Class-A body panels** and **semi-structural parts** for automotive and various industrial applications are the key target for HP-SMC.

The participation is open and free of charge for all AZL Partners and personally invited SMC experts.

### Scope of the Workshop

At 2015's AZL Annual Partner Meeting, the need for an SMC Workgroup has become apparent. Following this request, we are happy to propose this initial Workshop to all AZL Partners. To improve the discussion and to offer a platform for expanding the AZL Network, selected experts from the SMC Industry are invited personally by AZL to participate within this initial Workshop.

Due to its unique cost performance characteristics, the SMC technology is currently undergoing a new success which we want to build on with this initiative. The aim is to establish, after definition of the scope of the common activity regarding Marketing, R&D, Projects, funding opportunities, a regularly ongoing workgroup between research institutes and AZL Partner Companies.

Please register at the AZL Partner Section by January 12<sup>th</sup>, 2016.

## YOUR CONTACT

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## AGENDA

### 09:00 Welcome, Introduction and Expectations

Dr. Kai Fischer, Managing Director, *AZL Aachen GmbH*

Dr. Michael Effing, Senior Advisor to the *AZL Aachen GmbH*

Dr. Götz Krüger, Projects Manager, *BYK Chemie*

Mark Zimmermann, Product Line Director, *Plastic Omnium*  
and the Plenum

### 09:30 Keynote Presentations along the Value Chain (15 min. per presentation)

#### Speakers and Discussion Partners:

- **A view from Research & Development** by  
Arne Böttcher, Department Leader FRP Composites, *Institute of Plastics Processing (IKV)*
- **A view from Raw Materials**  
Thorsten Kröller, Business Line Manager Plastics Additives, *BYK Chemie*
- **A view from the SMC Compounder**  
Michael Polotzki, CEO, *Menzolit GmbH*
- **A view from the Tier 1/Tier 2**  
Reinhard Schäfer, Business Development Manager, *Plastic Omnium*
- **A view from the OEM**  
Hartmut Häberle, EKC, Technical Advisory for Plastic Applications, *MAN Truck and Bus AG*
- *BMW AG* (to be confirmed)

Including a Coffee Break

### 12:00 Part 1: Priority Setting and Voting

### 12:45 Networking Lunch

### 13:15 Part 2: Report Out and Proposal for Next Steps

- Mission and Proposal for Road Map to HP-SMC
- Definition of possible projects in Marketing, R&D, Common Projects and Funding Opportunities

### 14:00 End of the Day

## **PARTICIPANTS** (status as of January 20<sup>th</sup>, 2016)

3M Deutschland GmbH	Dr. Oliver Lingk
Aliancys Deutschland GmbH	Peter Hilzendegen
Aliancys Deutschland GmbH	Luuk Groenewoud
Ashland Performance Materials	Arie van Buren
AUDI AG	Oliver Stoll
BASF SE	Dr. Joachim Zwecker
BASF SE	Dr. Kevin Müller
BENTELER SGL Composite Technology GmbH	Dr. Robert Ernst-Siebert
BMW Group	Michael Bechtold
BYK-Chemie GmbH	Dr. Götz Krüger
BYK-Chemie GmbH	Lee Robyn Gunning
BYK-Chemie GmbH	Gerard Reestman
CANNON Deutschland GmbH	Albrecht Manderscheid
CANNON Ergos	Paolo Salina
Christian Karl Siebenwurst GmbH & Co. KG	Ralf Drössler
Connectra	Andrew Mafeld
Evonik Industries AG	Sebastian de Nardo
Fagor Arrasate S. Coop.	Javier Acosta
Fagor Arrasate S. Coop.	Estibalitz Arregi Alkorta
Faurecia Automotive Composites	Gilles Nedelec
Helm AG	Björn Lefenau
Henkel AG & Co. KGaA	Dr. Olaf Lammerschop
Henkel AG & Co. KgaA	Andreas Ferencz
Henkel AG & Co. KgaA	Konrad Becker
Huntsman	Jason Willis

Huntsman	Klaus Ritter
ika at RWTH Aachen University	Kristian Seidel
IKV at RWTH Aachen University	Arne Böttcher
ITA at RWTH Aachen University	Lars Appel
Mahr Metering Systems GmbH	Dr. Reiner Karl
MAN Truck and Bus AG	Hartmut Häberle
Menzolit GmbH	Michael Polotzki
Mitsubishi Rayon Europe GmbH	Marcel Remp
Mitsubishi Rayon Europe GmbH	Daniel Tyrkas
Mubea KG	Philipp Wetsch
Polynt Composites Germany GmbH	Peter Schmidt
POLYTEC Composites GmbH	Michael Pausch
Porsche AG	Philipp Knothe
SGL TECHNOLOGIES GmbH	Stefan Geh
Toyota Motor Europe NV/SA	Julien Tachon
Volkswagen AG	Marton Kardos
Aachen Center for Integrative Lightweight Production (AZL)	Dr.-Ing. Kai Fischer
Aachen Center for Integrative Lightweight Production (AZL)	Dr.-Ing. Michael Effing
Aachen Center for Integrative Lightweight Production (AZL)	Philipp Fröhlig