



Program

16th Magnesium Automotive and User Seminar

18 - 19 September 2008

at the Aalen University of Applied Sciences



Thursday, 18 September 2008

Chairmen
Authors / Speakers

From 8:15	Registration / Opening of Exhibition	
9:15	Welcome	Prof. Dr. F. Klein, EFM Prof. Dr. G. Schneider, President of the Aalen University
9:30 - 10:00	Keynote Speech: Magnesium through the Years	K. Weiß RWP
10:00 - 11:00	Session 1: Materials – Light and Sturdy Chairman:	Dr. M. Gruber, non ferrum Metallpulver
	Magnesium Production and Automotive Applications: Life-Cycle Analysis Focussing on Greenhouse Gases	S. Ehrenberger; German Aerospace Center, Institute of Vehicle Concepts
	Modelling the Endurance Limit of Die-Cast Magnesium Specimens	<u>B. Köhler</u> ¹ , L. Kallien ² et al; IWT Bremen ¹ , Hochschule Aalen ²
	Mechanical Properties of the Vacuum Assisted AM60B Die-Casts	T. Suzuki, J. Inami, T. Koike; YAMAHA MOTOR CO
11:00 - 11:30	Coffee Break	
11:30 - 12:40	Session 2: Surfaces – Zero Defect! Chairman:	M. Maier Magrec Recycling
	Characterization Possibilities of Metal Surfaces	<u>N. Scharnagl</u> , C. Blawert; GKSS Magnesium Innovation Center
	Surface Properties - Defects	F. Klein; EFM
	Surface Treatment of Magnesium Materials	P. Kurze; AIMT Holding
12:40 - 14:00	Lunch Break	
14:00 - 14:40	Session 3: Noble Leightweights	Prof. Dr. P. Kurze, AIMT Holding
	Coating of Magnesium Components for the Automotive Industry	E. Knoll; Benseler Beschichtungen
	Properties of HyMag2, a Mg-Al-Zn Alloy	G. Rienass ¹ , H. Herberhold ² ; Magontec ¹ ; HDO ²
14:40 - 15:20	Coffee Break	
15:20 - 17:00	Session 4: Magnesium Materials from 2010 ? Chairman:	S. Thistlethwaite, Magnesium Elektron
	REACH Project: A Short Introduction into the REACH Regulation	G. Reif; ECKA Granulate
	REACH: Downstream User Obligations and the Approach of the Automotive Industry	H. Pfeil; Ford-Werke

	Pre-Registration under REACH – How to do	N. Südland; EFM
	REACH – The New Approach to Chemical Safety	K. Bradley, N.Ranggasami; The Weinberg Group
	Supply and Demand Developments in the Magnesium Industry	B. Closset; MODAL Technologies
17:10	Optional: Visit of the Foundry Laboratory	
18:30	Foundrymen's Evening	

Friday, 19 September 2008

**Chairmen
Authors / Speakers**

8:15 - 10:00	Session 5: Casting Processes – Future-Proof!	Chairman:	Prof. Dr. K. U. Kainer, GKSS Research Centre
	Design and Processing Guidelines for the Production of High Performance Die Cast Magnesium Components		R. Yehuda, N. Nagar, G.Gertsberg, N. Moscovitch, B. Bronfin; DSM
	Magnesium Die Casting – Latest Developments to the Economic Production of Thin-Walled Castings		N. Erhard, M. Schlotterbeck; Oskar Frech
	Comparing Magnesium AZ91E Automotive Bell Housings Cast in Sand and in Low Pressure Permanent Moulds		F. Chiesa ¹ , B. Duchesne ² , J. Baril ³ , R. Bergeron ¹ , et al; CIFM ¹ ; Collège de Trois-Rivières ² ; Technologie de l'Aluminium et du Magnésium ³
	An Approach for the Development of Highly Complex Housings via Investment Casting		K. Weiß ¹ , C. Honsel ¹ ; NN ² ; RWP ¹ , Myrenne ²
	KEMETA – A New Casting Process		M. Pankowski; Kern – Magnesium-Gießtechnik
10:00 –10:30	Coffee Break		
10:30 - 12:30	Session 6: Alternative Manufacturing Processes	Chairman:	C. Schendera MagXpert Consulting
	Approaching Series Production of Light Weight Components by Magnesium Injection Molding		A. Volek ¹ , A. Lohmüller ³ , M. Hilbin- ger ³ , M. Hartmann ³ , R.F. Singer ³ et al; Diehl Stiftung ¹ , Diehl Metall Stiftung ² , Neue Materialien Fürth ³
	MCAST Technologies for Magnesium Shape Castings and Wrought Products		Z. Fan; Brunel University -Centre for Advanced Solidification Technology
	M³ Mobil mit Magnesium – Current Developments of Magnesium Sheet Metal in Germany		P. Juchmann; Salzgitter Magnesium Technologie
	Forming of Magnesium		G. Nürnberg, M. Ostermair, M. Gol- le, H. Hoffmann; TU München (utg)
	Modern and Economic Tooling Concepts for Machining Magnesium		H. Steidle; MAPAL Dr. Kress KG
	Threadforming in Magnesium Alloys		D. Biermann, K. Pantke; ISF - TU Dortmund
12:30	Closing Remarks End of Seminar and Exhibition		

The presentations will be translated simultaneously German / English and vice versa

The program is subject to modifications and amendments - updated program: www.efm-aalen.de