



International Zinc Die Casting Conference 2016

22-23 September, Brescia, Italy

Final Program

21 September – Park Hotel Ca’Nöa

17:00 Registration desk opens

19:00 Welcome reception

22 September – DIMI, Department of Mechanical and Industrial Engineering, University of Brescia



09:00 Registration opens

10:00 Welcome word

Prof. Rodolfo Faglia, Director of the DIMI - Department of Mechanical and Industrial Engineering - University of Brescia

Prof. Maurizio Memo, Chancellor's Deputy for Research and International Affairs - University of Brescia

Dr. Frank Goodwin, IZA, Director Technology & Market Development, USA

Session 1: Markets and market development

10:15 New IZA zinc die casting website and brochures

Mik Gilles, IZA, Belgium

10:30 Die casting markets Europe

Didier Rollez, Grillo, Germany

Die casting markets Americas

Ryan Winters, Eastern Alloys, USA

Die casting markets Asia

Ling Tao, Nyrstar China

Die casting markets India

Sandeep Tandon and Pravin Thapar, DST Industries, India

11:15 Coffee break

Session 2: Zinc Die casting technology

- 11:35 The enlightening in zinc die-casting
Didier Rollez, Grillo, Germany
- 11:55 Innovations in Vacuum Die Casting for Zinc Applications
Franck Gigez, Fondarex, Switzerland
- 12:15 Vacuum technology in the zinc die-casting: how to use it successfully in very demanding situations
Alessandro Mambretti, Mambretti Metalli, Italy
- 12:35 Sprue reduced zinc-high pressure die-casting with hotcast®: a field report
Robert Seiler, HZD, Germany
- 12:55 Additional developments and field experience with the Frech Gating System FGS
Gerd Bühner, Frech, Germany

13:15 Lunch

Session 3: Alloy development

- 14:15 New alloy opportunities in consumer electronic applications
Frank Goodwin, IZA, USA
- 14:35 Optimized die casting process, the key factor for ultra-thin walled zinc parts
Mr. Martin Schlotterbeck and Dr. Norbert Erhard, Frech, Germany
- 14:55 Ageing and creep behavior of Zinc die casting alloys
Dr. Walter Leis, FH Aalen, Germany
- 15:15 Wear resistance of zinc alloys: laboratory tests and first industrial attempts
Prof. Annalisa Pola and Dr. Lorenzo Montesano, DIMI-University of Brescia, Italy

15:35 Coffee break

Session 4: Numerical casting simulation and prototyping

- 16:05 Die Casting Machine Virtualization: full injection cycle simulation for total reliability results
Lorenzo Valente, Ecotre, Italy
- 16:25 Zinc die casting optimization through advanced process simulation
Andrea Panvini, PiQ2, Italy
- 16:55 3D printing with zinc alloy
Prof. Paolo Piccardo, UNI Genua, Italy

18:00 Buses depart from Park Hotel Ca'Nöa

18:30 Dinner event at Villa Baiana and European Zinc Die-Casting Competition
Award Ceremony

23 September – DIMI, Department of Mechanical and Industrial Engineering,
University of Brescia

Session 5: Sustainable zinc die casting and circular economy

- 9:00 Energy efficiency in zinc die casting
Dr. Norbert Erhard and Mr. Martin Schlotterbeck, Frech, Germany
- 9:20 Weight reductions and thin wall casting using HF Zinc for Smart devices
Joe Annetts, Zinc die-casting consultant
- 9:40 Zinc die casting from a Circular Economy and LCA perspective
Sabina Grund, Initiative Zinc, Germany
- 10:00 Recycling in practice: performance and hurdles
Kolja Uhlig, Metallwerk Dinslaken, Germany

10:20 Coffee break

Session 6: Zinc die-casting competition

- 10:50 Presentations by die casting competition winners

Session 7: Design and surface finishing

- 11:30 Nano coatings textures in zinc die casting
Ulrich Schwab, Föhl, Germany
- 11:50 PVD decorative coatings with antibacterial properties on die- casted zinc items
Dott. Michele Tosti, Protectim, Italy
- 12:10 Design Haptic rules
Prof.Marco Ajovalasit, Brunel University (London), UK

12:30 Conclusions

12:45 Lunch

14:00 End of Conference

Addresses:

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