

**10th Forming Technology Forum**  
**Model Based Control for Smart Forming Processes**  
**12 and 13 October 2017, Enschede, The Netherlands**

*Preliminary Program*

**12 October Thursday**

8:00 Registration / Welcome drinks

8:30 Opening

8:40 Keynote speech 1

9:20 Keynote speech 2

10:00 Coffee

10:30 Speech 1

11:00 Speech 2

11:30 Speech 3

12:00 Speech 4

12:30 Lunch

13:50 Keynote speech 3

14:30 Speech 5

15:00 Speech 6

15:30 Coffee

16:00 Speech 7

16:30 Speech 8

17:00 Speech 9

17:30 Speech 10

19:00 Conference Banquet

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**Model Based Control for Smart Forming Processes**  
**12 and 13 October 2017, Enschede, The Netherlands**

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**13 October Friday**

8:00 Registration / Welcome drinks

8:40 Keynote speech 4

9:20 Keynote speech 5

10:00 Coffee

10:30 Speech 11

11:00 Speech 12

11:30 Speech 13

12:00 Speech 14

12:30 Lunch

13:50 Keynote speech 6

14:30 Speech 15

15:00 Speech 16

15:30 Speech 17

16:00 Coffee and closure

## Keynote talks:

- *On feedback control of stamping and deep drawing operations*, Benny Endelt
- *Title unknown*, Peter Groche
- *Future needs in the development of FEM in combination with in-line process control*, Pavel Hora
- *Chances and limitations of in-line measurement for automotive press shops*, Wolfram Volk
- *Title unknown*, Stephen Duncan
- *Smart Change in the Making; Transforming Forming with Control*, Ravi Venugopal

## Talks:

- *Influence of scattering material properties on the robustness of deep drawing processes*, D. Harsch, J. Heingärtner, Y. Renkci and P. Hora
- *Verification of a closed loop control for deep drawing process*, M. Barthau, M. Liewald and C. Held
- *New bending process with superposition of radial stresses for damage control*, R. Meya, C. Löbbbe, O. Hering and A. E. Tekkaya
- *Influence of the elastic behaviour of a moving bolster on punch active surface: a numerical investigation*, F. Zgoll, T. Götze and W. Volk
- *Physics-based simulation of laser assisted tape winding for online process control*, A. Zaami, I. Baran, R. Akkerman
- *Augmented reality (ar) technology for the purpose of sheet metal forming simulation evaluation*, M. Lechner, R. Schulte, S. Meckler and M. Merklein
- *Approaches for control in deep drawing*, P. Fischer, D. Harsch, J. Heingärtner, Y. Renkci and P. Hora
- *Deepdrawing process control using active drawbeads*, C. Maier, V. Paunoiu, A. Epureanu
- *Experiences with the q-guard in-line control system in production*, J. Heingärtner, P. Fischer, D. Harsch, Y. Renkci and P. Hora

- *Closed feedback loop process control approaches and sensor evaluation for deep drawing tools with integrated piezoelectric actuators*, T. Bäume, W. Zorn, W. Drossel
- *Data-driven inline optimization of the manufacturing process of car body parts*, S. Purr, A. Wendt, J. Meinhardt, K. Mölzl, A. Werner, H. Hagenah and M. Merklein
- *Systematic drawbead design for optimal process control*, B. Carleer, I. Burchitz and M. Stippak
- *Physical model based digital twins in manufacturing processes*, J. Post, M. Groen, G. Klaseboer
- *Recent developments in modelling for on-line setup and control*, Camile Hol
- *Developments in process modeling for strip steering in hot strip rolling*, Leo Kampmeijer
- *Product-to-product state estimation for metal forming mass production*, J. Havinga, A.H. van den Boogaard
- *Engineering machine learning: product and process modelling for adaptive process control*, Roberto d'Ippolito