

Keynote Lectures

COL A.

(Arcelor Research SA - France)

Forming Limit Curves: are we at a turn ?

N° 18

DANE C., VEGTER H., WORKEL M., BOULANGER R.

(Corus Group/ENSIAME – The Netherlands/France)

New approach to demonstrate the need for a dedicated friction model to improve numerical simulations

N° 52

DELANNAY L., LANI F., JACQUES P.J.

(Université Catholique de Louvain / CENAERO - Belgique)

Simulation of deep-drawing of TRIP-assisted multiphase steel based on a micro-macro modeling

N° 72

MOUSSY F.

(DIMAT Renault - France)

Some considerations on experimental and numerical aspects linked to deep drawing : examples of interest and limitations

N° 71

NISHIMURA H., TANAKA H., KOMATSUBARA T., KOYAMA K., HAYASHI H.

(RIKEN – Japan)

The development of aluminium alloy sheets with high formability for automotive applications

N° 26

TILL E., RAAB A.E.

(voestAlpine Stahl GmbH - Austria)

Modeling effects in springback simulation

N° 21

Oral Presentations

AVENDANO J.L., FERNANDEZ J.I., SCHEDIN E., KAJBERG J., RATTE E., FREHN A.

(LABEIN/Outokumpu Stainless AB/Institut für Eisenhuettenkunde Aachen – Spain/Sweden/Germany)

Implementation of a non-isothermal material model for austenitic stainless steels in deep drawing simulation – finding of optimum process parameters for improving deep drawability

N° 59

AXELSSON B., ANDERSSON A.

(Volvo Cars Corporation - Sweden)

Virtual pre-matching

N° 28

BACHA A., KLOCKER H., DANIEL D.

(Ecole des Mines de Saint Etienne/Alcan – France)

Trimming of aluminium alloy sheets : experimental and numerical investigations

N° 67

BAPTISTA A.J., CHAPARRO B.M., ANTUNES J.M., RODRIGUES D.M., MENEZES L.F.

(Universidade de Coimbra / Escola Superior de Tecnologia de Abrantes – Portugal)

Numerical and experimental study on the splitting ring test for springback prediction

N° 9

BEHRENS B.A., VOGT O., POELMEYER J.

(IFUM Hanover - Germany)

Development of a reliable and economic forming process for magnesium sheet metal

N° 22

BERGER E., BRENNE T., HEATH A., HOHCOLDINGER B., KASSEM-MANTHEY K., KESSLER L., KOCH N., KORTMANN G., KRÖFF A., OTTO T., STEINBECK G., TILL E., VERHOEVEN H., VU T.C., WIEGAND K.

(voestalpine Stahl GmbH, AutoForm Engineering Deutschland GmbH, Engineering System International GmbH, DYNAMORE GmbH, Gesellschaft für Numerische Simulation GNS, ThyssenKrupp Stahl AG, Adam Opel AG, Wilhelm Karmann GmbH, Salzgitter Mannesmann Forschung GmbH, Volkswagen AG, Stahlinstitut VDEh, BMW AG, DaimlerChrysler AG – Germany/Austria)

Local strain prediction in small die radii regions - Optimization of numerical simulation parameters for modelling a part door outer

N° 14

BOUHÉLIER C., MARCHAND P., SFAR H.

(CETIM – France)

Expert tools for stamping

N° 74

CARLEER B., SCHIDZIG L., WENDENBURG A.

(Autoform Engineering GmbH/DaimlerChrysler AG – Germany)

Validation of springback. Influence and sensitivity on a real world automotive part

N° 69

CAYSSIALS F., LEMOINE X.

(Arcelor Innovative R&D – France/Belgium)

Predictive model of FLC (Arcelor model) upgraded to UHSS steels

N° 38

CHAMBARD A., GUYON P., EL KHALDI F., LAMBRIKS M., LING D.,

(ESI France/ESI Group – France)

Effective stamping simulation using automatic blank and process optimization techniques

N° 2

DANIEL D., LITALIEN P., SHAHANI R.

(Alcan – France)

Challenges for high volume aluminium car body applications

N° 66

DIEHL A., ENGEL U., GEIGER M.

(University of Erlangen-Nuremberg – Germany)

Investigation of the springback behaviour in metal foil forming

N° 51

GAIED S., PINARD F., SCHMIT F., ROELANDT J.M.

(UTC / Arcelor Innovation – France)

Numerical determination of specific forming limit curve for tailor welded-blanks using the major-strain rate criterion

N° 5

GÖSLING M., HOMBERG W., KLEINER M., KLIMMEK CH.

(University of Dortmund – Germany)

Statistical Modelling of Geometrical Constraints for High-Pressure Sheet Metal Hydroforming

N° 50

HUSSON CH., AHZI S., DARIDON L., C. POIZAT

(Institut de Mécaniques des Fluides et des Solides de Strasbourg/ Laboratoire de Mécanique et Génie Civil de Montpellier – France)

Numerical study of the effects of processing parameters in the high-speed blanking in the connectic field

N° 20

IRIONDO E., GONZALEZ B., EGUIA I, GUTIERREZ M., DAEHN G.S.

(LABEIN/The Ohio State University Columbus – Spain/USA)

Experimental study of springback elimination using electromagnetic field

N° 44

ISOGAI E., YOSHIDA T., SUZUKI N., UENISHI A., KURIYAMA Y.

(Nippon Steel Corporation - Japan)

Forming techniques and forming analysis on spring-back simulation for High Strength Steel in sheet metal forming

N° 25

JURCO P., BANABIC D.

(Technical University of Cluj-Napoca – Roumania)

A user-friendly programme for analyzing the anisotropy and formability of sheet metals

N° 35

KOLLECK R., PFANNER S., LIND C.

(Graz University of Technology/VIF – Austria)

Press hardening of boron steel sheets – forming and tooling technology with high potential

N° 19

KONDOU T., UEMURA G., ITO K., MORI N.

(M&M Research - Japan)

A new method to evaluate and compensate springback

N° 10

LAMPRECHT K., MERKLEIN M., GEIGER M.

(University of Erlangen-Nuremberg - Germany)

Manufacturing complex sheet metal components by hydroforming of deep-drawn preforms

N° 3

LEDoux Y., PAIREL E., ARRIEUX R., TEIXEIRA P., SANTOS A.D., DUARTE J.

(University of Savoie/University of Porto/INEGI – France/Portugal)

A method of springback and tool compensation based on finite element method and design of experiment.

N° 54

LOVATO G., GIRAUD H., VAN DER HEIDE E., STAM E.D., HEIKKILÄ I., AKDUT N., CLARYSSE F., CAENEN P.

(Arcelor/TNO Industrial Technology/SIMR/OCAS – France/ The Netherlands/Sweden/Belgium)

Influence of lubricants and tool materials upon galling of stainless steels

N° 13

MATTIASSON K., SIGVANT M.

(Volvo Cars Safety Centre – Sweden)

On the choice of yield criterion for industrial sheet forming simulations

N° 48

MERCUZOT G., HEIN P.

(Arcelor Innovation - France)

Estimation of stamping forces for High Strength Steels

N° 29

OUDJENE M., MERCIER F., PENAZZI L., BATOZ J.L.

(InSIC / Ecole des Mines d'Albi – France)

Analysis and design of laminated tooling in sheet metal stamping

N° 17

PÖHLANDT K., TEKKAYA A.E., SCHÖCK J.

(University of Stuttgart / Middle East Technical University Ankara – Germany/Turkey)

Concepts for characterizing plastic anisotropy of sheet metal

N° 57

POTHIER J.M., ROIZARD X., HIHN J.Y., BETEAU J.F., MONTEIL G.

(ENSMM/IUT Besançon/ENSIEG – France)

Global analysis method of friction parameters in strip drawing tests

N° 32

REVUELTA., MANNINEN T., LARKIOLA J., KORHONEN A.S.

(Helsinki University of Technology /VTT Industrial Systems – Finland)

Testing a combined isotropic and non-linear kinematic hardening model in forming of austenitic stainless steel

N° 23

ROELOFSEN M.E., TEN HORN C.H.I.J.

(Corus Research – The Netherlands)

How well do virtual stampings compare to real parts ?

N° 36

SIMON P., SABOURIN F., MORESTIN F., PHAN L.

(INSA Lyon – France)

Direct identification of a combined hardening with a cyclic bending test

n° 42

TEIXEIRA P., BUTUC M.C., SANTOS A.D., ROCHA A.B., GRACIO J.J.

(University of Porto/University of Aveiro/INEGI – Portugal)

Development of a modular Forming Limit Diagram code and its application to F.E. simulation

N° 60

TROMPETER M., KRUX R., HOMBERG W., KLEINER M.

(University of Dortmund – Germany)

Process control strategies for high-pressure sheet metal forming of large scale structure parts

N° 49

VAN BAELE A., HE S., VAN HOUTTE P., TUNCKOL Y., VERBERT J., DUFLOU J.

(Katholieke Universiteit Leuven – Belgium)

Study on the thinning during single point incremental forming of aluminium sheets

N° 73

WEISS M., DINGLE M., ROLFE B.F., HODGSON P.D.

(Deakin University – Australia)

The influence of temperature on the formability of metal/polymer/metal-laminates

N° 30

WICHERN C.M., RASP W.

(Marx Planck Institute – Düsseldorf – Germany)

A study of roughness anisotropy of surfaces produced by laboratory and industrial rolling and surfaces generated by computer modeling

N° 65

Posters

ANDERSSON R., ODEN M., POWELL J., MAGNUSSON C.

(Swedish Tool & Die Technology/Lulea University of Technology/ Laser Expertise Acorn Park Industrial Estate Nottingham/Volvo Cars Body Components – Sweden/England)

A new equation to describe the effect of microstructural transformation of austenitic stainless steels during plastic deformation

N° 4

BALHOUL R., DAL SANTO PH., POTIRON A.

(ENSAM Angers- France)

Design of experiments and response surface methodology applied to the optimisation of stresses and bending load in sheet metal forming

N° 6

BLECK W., KAUP B., PARISER G., RATTE E., SAUER R., THOMSER C.,

(University of Aachen/Rasselstein GmbH – Germany)

Innovative testing methods for tinplate

N° 8

CARLSSON B.

(SSAB – Sweden)

Effects of wrinkling on delayed fracture in deep drawing

N° 40

GEOFFRAY J.L., ADAMI J.P.

(Arcelor Research SA - France)

Influence of the specimen geometry for the determination of the Uniaxial tension necking point for FLD

N° 70

GONZALEZ B., EGUIA I, GUTIERREZ M.A., FERNANDEZ J.I., ARROYO A., IRIONDO E., JIMBERT P.

(LABEIN – Spain)

Electromagnetic forming for automotive applications in LABEIN

N° 43

HUANG M.

(Research Laboratories Ispat Inland Inc. – USA)

Springback characterization and control of Advanced High Strength Steel

N° 24

LANGE CH., AUGER P., KANJI NANJI A., MASSONI E., FELDER E.

(PSA Poissy/CEMEF – France)

Hemming simulations with different element formulations and material models

N° 27

RACZ G., LEMOINE X., BALAN T.

(Arcelor Innovation R&D/ENSAM Metz - France)

Implementation of advanced behaviour laws and validation of their numerical predictions for sheet metal forming

N° 39

SERRI J., MARTINY M., MAKKOUK R., FERRON G., BOURGEOIS N.

(Université de Metz/Université libanaise – France/Liban)

Experimental and numerical analysis of the formability of TRIP steels

N° 31

STROPPE H., VOVK V., VOVK A., TARAN V.

(University of Magdeburg – Germany)

New complex evaluation of formability

N° 7

VAN TYNE C.J., LEVY B.S., MOON Y.H.

(Colorado School of Mines/B.S. Levy Consultants/Pusan National University – USA/Korea)

Calculation of strain after bending over a roller with a known restraining forces

N° 1

WADMAN B., MOSHFEGH R., GROTH H., ROOS H., CARLSSON P.A., BERNQUIST J., ALRUTZ A.

(IVF/ Otokumpu Stainless/ Finnveden Metal Structures/ Volvo cars/ Herber Industri AB– Sweden)

Forming methods increasing the strength of austenitic stainless steel products

N° 61

WANG B., LEE T.C., CHAN L.C.

(Hong Kong Polytechnic University – China)

Study of strain rate effect on SPC and Al6xxx with numerical simulations

N° 34