

International Automotive Body Congress

(IABC 2014 DEARBORN)

Papers

Proceedings Volume 37

**Dearborn, Michigan, USA
29 – 30 October 2014**

Editors:

M. Nasim Uddin

Rafiq Uddin

ISBN: 978-1-63439-917-3

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2014) by Global Automotive Management Council (GAMC)
All rights reserved.

Printed by Curran Associates, Inc. (2015)

For permission requests, please contact Global Automotive Management Council (GAMC)
at the address below.

Global Automotive Management Council (GAMC)
5305 Plymouth Road
Ann Arbor, Michigan 48105

Phone: (734) 418-2365

Fax: (734) 418-2356

info@gamcinc.com

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2634
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

| | |
|---|----|
| Design of a Composite Structural Panel for High Volume Production | 1 |
| <i>L. Decker, J. Truskin, M. Plauman, E. Langley</i> | |
| New Coil-Applied Coating for Press Hardening Steel | 14 |
| <i>W. Fristad</i> | |
| Development of Light Weight Automotive Wheel Rim with High Stiffness | 23 |
| <i>Minsung-Lee, Younil-Chung, Gisuk-Chung, Hyuksun-Kwon</i> | |
| From DESIGN / CONCEPT to Virtual Reality – Virtual Hot Forming Engineering Illustrated | 32 |
| <i>D. Lorenz, M. Holecek, M. Vrolijk, M. Hoss, B. Dahmena, M. Doroudian, H. Porzner</i> | |
| Lightweight Door Ring Concept | 43 |
| <i>I. Viaux, G. Tandon</i> | |
| Innovative Joining Technologies for Multi-Material Lightweight Car Body Structures | 50 |
| <i>M. Wagner, A. Jahn, B. Brenner, E. Beyer</i> | |
| Ductile Fracture Prediction for Automotive Applications | 63 |
| <i>P. Woelke, B. Benowitz, B. Hiriyur, L. Knoerr, J. Hutchinson</i> | |
| Mass Reduction for Steel Pickup Truck Structures | 70 |
| <i>T. Wormald, N. Schneider, E. Gibeau</i> | |
| Author Index | |