



International Polymer Processing is abstracted and/or indexed in SciSearch[®], Materials Science Citation Index[®], Research Alert[®], Reaction Citation Index[®] and Current Contents[®]/Engineering, Computing, and Technology, Science Citation Index[®]

**Editor-in-Chief and
Editor for the Americas**

J. L. White
Institute of Polymer Engineering
University of Akron
Akron, Ohio 44325, U.S.A.

**Associate Editor for Europe,
Middle East and Africa**

H. Potente
Institut für Kunststofftechnologie
University of Paderborn
Pohlweg 47-49
D-33098 Paderborn, Germany

**Associate Editor for East Asia
and Australia**

T. Kikutani
Tokyo Institute of Technology
Dept. of Organic and Polymeric
Materials, 2-12-1, Okayama,
Meguro-ku, Tokyo 152-8552, Japan

Editorial Board

J. F. Agassant, Valbonne, France
P. K. Freakley, Loughborough, U.K.
H. G. Fritz, Stuttgart, Germany
M. Fujiyama, Yamaguchi, Japan
L. A. Goettler, Hakron, U.S.A.
M. R. Kamal, Montreal, Canada
T. Kanai, Anegaski, Japan
K. U. Kim, Seoul, Korea
S. C. Kim, Daejeon, Korea
H. M. Laun, Ludwigshafen, Germany
L. J. Lee, Columbus, U.S.A.
J. T. Lindt, Pittsburgh, U.S.A.
A. Y. Malkin, Moscow, Russia
T. Masuda, Kyoto, Japan
H. E. H. Meijer, Eindhoven, Netherlands
V. M. Nadkarni, Pune, India
R. Qian, Beijing, China
T. Sakai, Tokyo, Japan
L. R. Schmidt, Schenectady, U.S.A.
Z. Tadmor, Haifa, Israel
S. H. Teoh, Singapore
G. Titomanlio, Fisciano (Salerno), Italy
C. L. Tucker III, Urbana, U.S.A.
E. Uhland, Essen, Germany
L. A. Utracki, Montreal, Canada
J. Vlachopoulos, Hamilton, Canada
J. Wortberg, Essen, Germany

HANSER

P.O. Box 86 04 20, D-81631 Munich
Phone: 0049/89/9 98 30-621
Distribution Manager: 0049/89/9 98 30-102
Telefax: 0049/89/98 48 09

Editorial

Second of a Series: Pioneering Polymer Industry Developments – The IG Farbenindustrie and the Establishment of Synthetic Rubber	116
---	-----

Screw Extrusion/Mixing

<i>T. Avalosse, Y. Rubin</i> Analysis of Mixing in Corotating Twin Screw Extruders through Numerical Simulation	117
<i>M. Mours, D. Reinelt, H.-G. Wagner, N. Gilbert, J. Hofmann</i> Melt Conveying in Co-rotating Twin Screw Extruders – Experiment and Numerical Simulation	124
<i>C. Rauwendaal, J. Sikora</i> The Adjustable Grooved Feed Extruder	133

Reactive Extrusion

<i>T. Yalçinyuva, M.R. Kamal, R.A. Lai-Fook, S. Özgümüs</i> Hydrolytic Depolymerization of Polyethylene Terephthalate by Reactive Extrusion	137
<i>J. Greci, D.B. Todd</i> Effect of Conversion on Chain Addition Copolymerizations Performed in a Backmixed Drag Flow Extruder Reactor	147

Fiber and Film

<i>K. Song, J.L. White</i> Single and Double Bubble Tubular Film Extrusion of Polybutylene Terephthalate	157
---	-----

Molding

<i>W. Wang, A. Makinouchi, M. Okamoto, T. Kotaka, M. Maeshima, N. Ibe, T. Nakagawa</i> Viscoplastic Material Modeling for the Stretch Blow Molding Simulation . .	166
<i>C.-M. Chen, W.-B. Young</i> The Effects of Compression Pressure on the Injection Compression Molding	176
<i>N. C. Parasnis, K. Ramani</i> Numerical Simulation of Compression Molding of UHMWPR Part I. Thermal Model	180
<i>N. C. Parasnis, K. Romani</i> Numerical Simulation of Compression Molding of UHMWPE Part II. Residual Stress Model	194
<i>A. Kech, H.-C. Ludwig, B. Möglinger, P. Eyerer, J. deClaville Christiansen</i> Mechanical Properties of Isotactic Polypropylene with Oriented and Cross-hatched Lamellae Structure	202
<i>S.F. Bush, F. G. Torres</i> Morphological Characterisation of Long Glass Fibre Composites for the Thermoforming Process	208

PPS News	215
-----------------	------------

Professional News	216
--------------------------	------------

PPS Membership/Impressum	218
---------------------------------	------------