

CONTENTS

Rubber Division, American Chemical Society, Inc.

RC&T Journal on the Web	G1
International Rubber Science Hall of Fame Inductee	G2
Science and Technology Awards	G8
Best Paper Awards	G12
Erratum	G13

Papers

Goodyear Medalist Lecture: Rubber Research in the Service of Mankind

<i>Joseph P. Kennedy</i>	169
--------------------------------	-----

Mesoscopic Mechanical Analysis of Filled Elastomer with 3D-Finite Element Analysis and Transmission Electron Microtomography

<i>Keizo Akutagawa, Ken Yamaguchi, Atsushi Yamamoto, Hisashi Heguri, Hiroshi Jinnai, Yuki Shinbori</i> . . .	182
--	-----

A Mechanistic Approach to EPDM Devulcanization

<i>K. A. J. Dijkhuis, I. Babu, J. S. Lopulissa, J. W. M. Noordermeer, W. K. Dierkes</i>	190
---	-----

A Comparative Investigation of Surface Modification of Carbon Black and Silica by Plasma Polymerization

<i>T. Mathew, R. N. Datta, W. K. Dierkes, J. W. M. Noordermeer</i>	209
--	-----

Improvements in the Hydrogenation of Nitrile Rubber using Wilkinson's Catalyst

<i>N. T. McManus, G. L. Rempel</i>	227
--	-----

Heat Aging Behavior of Novel Poly (Phenylene-Ether) Based Thermoplastic Elastomers

<i>Samik Gupta, Ragha Kamalakaran, Avdhut Maldikar, Ashok Menon, Anil K. Bhowmick</i>	244
---	-----

The Application of High Resolution Chemical Imaging Techniques for Butyl Rubber Blends

<i>Donald A. Winesett, Andy H. Tsou</i>	265
---	-----

Effect of Plasma Polymerization the Performance of Silica in NBR, EPDM and NBR/EPDM Blends

<i>M. Tiwari, J. W. M. Noordermeer, W. K. Dierkes, Wim J. van Ooij</i>	276
--	-----

Correlation Between Physico-Mechanical Properties of NR-BR Blends in Tire Tread Formulation with their Thermal Behaviors

<i>Saeed Taghvaei-Ganjali, Fereshteh Motiee, Farsa Fotoohi</i>	297
--	-----

Analysis of Stress-Strain Data for Dry and Swollen Rubbers by a New Tube Model of Rubber Elasticity Based on Finite Chain Extensibility

<i>Yoshio Hoei</i>	318
--------------------------	-----

Rubber Oxidation and Tire Aging — A Review

<i>John M. Baldwin, David R. Bauer</i>	338
--	-----