

Rubber Division ACS Best Paper Awards

The Best Paper Committee of Rubber Division, ACS seeks to improve the quality of technical presentations by evaluating and publicly recognizing the authors of outstanding papers presented our technical meetings.

Each year Committee Judges and peer attendees, rate each presentation on quality of content, originality, and clarity. Winning papers are selected from the top-rated presentations after further review by the Best Paper Committee. The Best Symposium is awarded to the symposium with the highest average paper ratings and best average attendance of presentations.

Meeting	Year	Award	Authors/Moderators	Affiliation	Title
198th, Fall	2020	Best Paper	Dillon Presto	The University of Akron	Insights into the Microscopic Origins of Dynamic Mechanical Properties of Filled Rubber Investigated with X-ray Photon Correlation Spectroscopy
198th, Fall	2020	Honorable Mention	Wilma Dierkes	University of Twente	Sensitivity of Marching Modulus of Silica-filled SBR/BR Compounds to Filler Type and Polymer Ratio
198th, Fall	2020	Best Symposium	Crittenden Ohlemacher & Ed Terrill	The University of Akron & ARDL, Inc.	Rubber Testing & Characterization
196th, Fall	2019	Best Paper	Steven K. Henning & Fabien	Total Cray Valley	Silane-Terminated Liquid Poly(butadienes) in Tread Formulations: A Mechanistic Study
196th, Fall	2019	Best Symposium	Ed Terrill & Crittenden Ohlemacher	ARDL, Inc. & University of Akron	Testing and Predicting Behavior of Rubber and Tires
194th, Fall	2018	Best Paper	Nuthathai Warasitthinon and Chris Robertson	Cooper Tire & Rubber Co.	The Payne Effect: Primarily Polymer-Related or Filler-Related Phenomenon?
194th, Fall	2018	Best Symposium	Cal Moreland & Sy Mowdood	Michelin USA & Pirelli (Retired)	Advances in Material and Processes of Car and Truck Tires
192nd, Fall	2017	Best Paper	Anke Blume*, Katarzyna S. Bandzierz, Louis A.E.M. Reuvekamp, Jerzy Dryzek, Wilma K. Dierkes, Dariusz M. Bielinski	University of Twente, Netherlands	Influence of Network Structure on Elastomer Properties
192nd, Fall	2017	Best Symposium	Crittenden Ohlemacher & Michael Warner	University of Akron & CCSI, Inc.	Characterization Tools for Elastomers
190th, Fall	2016	Best Paper	Peter Mott	U.S. Naval Research Laboratory, Chemistry Division	The Thermomechanical Response of Polyurea
190th, Fall	2016	Honorable Mention	Steven K Henning and Taejun Yoo	Total Cray Valley	The Synthesis and Characterization of Farnesene-Based Oligomers
190th	2016	Best Symposium	Sy Mowdood and J. Cal Moreland	Consultant; and Michelin NA	Tire Traction, Handling and Tire Performance Prediction

188th, Fall	2015	Best Paper	Robert Schuster & M. Luckmann	German Institute of Rubber Technology	STRUCTURE - PROPERTY RELATIONSHIPS FOR SPECIALTY RUBBER/IONIC LIQUIDS COMPOUNDS
188th, Fall	2015	Honorable Mention	Claus Wrana* and Jürgen E.K. Schawe	Mettler-Toledo AG	THE FLASH DSC - A NOVEL METHOD FOR THE CHARACTERIZATION OF THE KINETICS OF CRYSTALLIZATION
188th, Fall	2015	Honorable Mention	Brent. K. Larson, Julie M. Hess and Jeffrey M. Williams	Cooper Tire & Rubber	PROCEDURE FOR ESTIMATING OIL 3-D SOLUBILITY PARAMETERS
188th, Fall	2015	Best Symposium	J. Cal Moreland and S.K. Mowdood	Michelin North America and Pirelli (retired)	ADVANCES IN MATERIAL AND PROCESSES OF CAR AND TRUCK TIRES
186th, Fall	2014	Best Paper	Kenneth Gillen, Matthew Celina, Robert Bernstein	Sandia National Laboratories	Review of Some Important Issues and Resolutions When Lifetime Predictions of Elastomers Are Made Using Accelerated Aging Techniques
186th, Fall	2014	Honorable Mention	Walter H. Waddell, R Christopher Napier	ExxonMobil Chemical Co.	Worldwide Tire Survey
186th, Fall	2014	Best Symposium	Timothy A. Okel & Wesley Wampler	PPG & Sid Richardson	Fillers
184th, Fall	2013	Best Paper	Sitisalina Sarkawi, Jacques Noordermeer, Wilma K. Dierkes	University of Twente	Morphology of Silica Reinforced Natural Rubber: The Effect of Silane Coupling Agent
184th, Fall	2013	Honorable Mention	Bing Jiang	Goodyear Tire & Rubber Co.	Nonlinear Dynamic Modeling of Elastomer With Langevin-Chain Spring
184th, Fall	2013	Best Symposium	Larry R. Evans, Robert H. Schuster	Transportation Research Center, Inc., & DIK	Natural & Renewable Material For Rubber
182nd, Fall	2012	Best Paper	Andrew Cannon, Mel Toub, and William P. King	Hoowaki, LLC and Momentive	Extrusion of Low Friction and Low Tack Microstructured Surfaces on Silicone Rubber
182nd, Fall	2012	Honorable Mention	Robert H. Schuster, Harish Chogule and Heike Wittek	DIK	Orientalional Effects and Polymer-Filler Interaction in CNT-Rubber Nanocomposites
180th, Fall	2011	Best Paper	Ralph A. Whitney, Karthik V. S. Shanmugam, J. Scott Parent	Queen's University	Functional, Peroxide---Curable Isobutylene---Rich Elastomers
180th, Fall	2011	Honorable Mention	Cynthia M. Flanigan, Laura Beyer, David Klekamp, David Rohweder, and Bonnie Stuck and Edward R. Terrill	Ford Motor Company and Akron Rubber Development Laboratory	Comparative Study of Silica, Carbon Black and Novel Fillers in Tread Compounds
180th, Fall	2011	Best Symposium	Syed K. Mowdood and J. Cal Moreland		Advances in Materials and Tire Technology
178th, Fall	2010	Best Paper	C.M. Roland, R.M. Gamache, and D. Fragiadakis	Naval Surface Warfare Center	Elastomer Coatings for Armor
178th, Fall	2010	1st Honorable Mention	Chengching K. Chiang, Wenshuang Xie, Colleen McMahan and Judit E. Puskas	University of Akron	Unraveling the Mystery of Natural Rubber Biosynthesis I: Investigation of the Composition and Growth of In Vitro Natural Rubber Using High Resolution Size Exclusion
178th, Fall	2010	2nd Honorable Mention	James A. Popio and Douglas E. Rice	Smithers Scientific Services	An Approach to Indoor Wear Testing

178th, Fall	2010	Best Symposium	Syed K. Mowdood	Independent Consultant	Advances In Tire Traction, Wear & Predictive Testing
176th, Fall	2009	Best Paper	C. Robertson, M. Rachaitis, C. J. Lin, P. Sadhukhan, J. D. Quinn, R. Bogosolov and C. M. Roland	Bridgestone Americas Center for Research & Technology and Naval Research Laboratory	Flocculation, Reinforcement, and Glass Transition Effects in Silica Filled Styrene-Butadiene Rubber
176th, Fall	2009	1st Honorable Mention	B. Rodgers, S. Jacob, B. B. Sharma, S. Pal and H. Manjunath	ExxonMobil Chemical Co. and ExxonMobil Chemical Co. India	Effect of Aging on the Permeability Properties of Bromobutyl Based Tire Innerliner Compounds
176th, Fall	2009	2nd Honorable Mention	C. McMahan, D. Wood, W. Xie, R. Wong, M. Whalen, K. Cornish, D. Shintani, L. H. C. Mattoso and J. A. Malaonge	Dept. of Agriculture; Yulex Corp.; University of Nevada---Reno; Embrapa Instrumentacao Agropecuaria and Universidade Estradual Paulista	Natural Rubber from Domestic Crops: Interspecific Comparisons
176th, Fall	2009	Best Symposium	W. Wampler and P. Zhang	Sid Richardson and Goodyear	Filler Reinforcement of Rubber
174th, Fall	2008	Best Paper	W. Liang, S. Tang, R. Vara, C. Bette, T. Clayfield, S. Watson and S. Daniel	Dow Chemical Company Elastomers R&D	Molecular Structure and Processing Characteristics of a Granular Gas-phase Metallocene EPDM Rubber
174th, Fall	2008	Honorable Mention	W. Waddell, C. Napier and D. Tracey	ExxonMobil Chemical Company	Nitrogen Inflation of Tires
174th, Fall	2008	Best Symposium	W. Waddell and S. Mowdood	ExxonMobil Chemical Company and Independent Consultancy	Advances in Tire Technology
172nd, Fall	2007	Best Paper	R.P. Quirk and M. Ocampo	University of Akron	Anionic Synthesis of Trialkoxysilyl-Functionalized Polymers
172nd, Fall	2007	Best Symposium	V. Kothari	Therm---O---Link	Aging, Degradation and Stabilization of Rubber and Plastics
170th, Fall	2006	Best Paper	T. Hogan, Y. Yan, W. L. Hergenrother and D. Lawson	Bridgestone Americas	Study of Lithiated Thioacetals as Initiators for Living Anionic Polymerization of Butadiene or Butadiene and Styrene: Polymerization and Compounded Polymer Properties
170th, Fall	2006	Best Symposium	V. Kothari	Therm---O---Link	Advances in Rubber Technology
Spring	2005	Best Paper	G. L. Wilkes, D. Klinedinst, J. P. Sheth, E. Yilgor, I. Yilgor, and F. L. Beyer	Virginia Polytechnic, Koc University, and U.S. Army Research Laboratory	Structure-Property Behavior of New Segmented Polyurethanes and Polyureas without use of Chain Extenders

Spring	2005	Best Symposium	S. K. Mowdood and W. Waddell	Consultant, ExxonMobil	Tire Performance, Durability and the Tread Act
Spring	2005	Best Educational Symposium Paper	R. Costin and S. K. Henning	Sartomer	Fundamentals of Curing Elastomers with Peroxides and Coagents
Fall	2005	Best Paper	M.R. Gurvich	United Technologies	On Challenges in Structural Analysis of Rubber Components: Frictional Contact
Fall	2005	Best Symposium	A.L Tisler	Cytec Industries	Polyurethanes
Spring	2004	Best Paper	J. Baldwin	Ford Motor	Effects of Nitrogen Inflation on Tire Aging and Performance
Spring	2004	Honorable Mention	J. T. Bauman	Elastomer Engineering and Testing	Calculation Methods for Spherical Rubber Bearings, Part II. Axial Forces
Spring	2004	Best Educational Symposium Paper	G. Burrowes	Goodyear Tire	Applications – Power Transmission Products
Spring	2004	Best Symposium	M.R. Rodgers and W.H. Waddell	ExxonMobil	Educational Symposium: Elastomers and Their Applications
Fall	2004	Best Paper	R. J. Pazur, L. Ferrari, and E. Campomizzi	Lanxess	Compounding for Improved Physical and Heat Aging Properties in HXNBR
Fall	2004	Honorable Mention	W.S. Fulton	OMG UK Ltd.	Tyre Cord Adhesion: How the Source of Zinc can Influence the Structure of the Bonding Interface
Fall	2004	Best Symposium	V. Kothari	Therm---O---Link	Heat-Resistant Elastomers
Spring	2003	Best Paper - Original Contribution	C.Wrana, C. Fischer and V. Haertel	Bayer AG, Continental AG	Analysis Of network Structures In Filled Elastomers By Amplitude Dependent Measurements Under Mono- And Bimodal Sinusoidal Deformation
Spring	2003	Honorable Mention - Original Contribution	J. Puskas and Y. Chen	University of Western Ontario	Novel Thermoplastic Elastomers For Biomedical Applications
Spring	2003	Best Paper - Review	D. Schwarz and D. Askea	Smithers Scientific Services	A Fundamental Review Of Cut & Chip Testing For OTR Tread Compounds
Spring	2003	Honorable Mention - Review	F. Ignatz---Hoover and B. To	Flexsys America	Softening NR Compounds: A comparison Of Methods Used By The Industry To Increase Productivity Of NR Compounds By Various Methods Of Softening
Spring	2003	Best Symposium	M. Engelhardt	Yokohama Tire	Medical Applications & Environmental Issues
Fall	2003	Best Paper - Original Contribution	N. Dharmarajan, M. G. Williams and S. Datta	ExxonMobil Chemical	Specialty Elastomer Modifiers with Isotactic Propylene Crystallinity for Polypropylene Modification
Fall	2003	Honorable Mention - Original Contribution	A. K. Bhowmick and S. Sadhu	Indian Institute of Technology	Acrylonitrile Butadiene Rubber Based Nanocomposites: Preparation and Mechanical Properties
Fall	2003	Best Paper - Review	J.A. Kuczowski	Consultant	Things I Learned about PPD's at My Mentor's Knee and Other Places
Fall	2003	Honorable Mention - Review	A. Sarkar, J. C. Dellamonte and J. M. Caruthers	Purdue University	An Analysis of the Microscopic Deformation Field in Rubbers Filled with Nano-Particles

Fall	2003	Best Symposium	V. Kothari	Therm---O---Link	Aging and Stabilization of Rubber and Plastics,
Spring	2002	Best Paper - Original Contribution	G. M. Brown and A.D. Westwood	ExxonMobil Chemical	Application of Field Emission Scanning Electron Microscopy to Microanalysis of Elastomers,
Spring	2002	Best Paper - Review	N. Yerina and S. Magonov	Digital Instruments/Veeco Metrology	Atomic Force Microscopy in Analysis of Rubber Materials
Spring	2002	Best Educational Symposium Paper	H.D. Luginsland	Degussa AG	Chemistry and Physics of Network Formation in Silica-Silane-Filled Rubber Compounds: A Review on the Chemistry and the Reinforcement of the Silica--Silane Filler System
Spring	2002	Best Symposium	A.H. Tsou, W. H. Waddell, and T. W. Zerda	ExxonMobil Chemical	Microscopic and Spectroscopic Imaging of Rubber Compounds
Fall	2002	Best Paper - Original Contribution	I. Duvdevani, A. H. Tsou and S. Datta	ExxonMobil Chemical	BIIR Green Strength Enhancement by Semicrystalline BIIR Green Strength Enhancement by Semicrystalline
Fall	2002	Best Paper - Review	R.D. Stevens	DuPont Dow Elastomers	Long Term Heat Aging of Various Fluoroelastomers
Fall	2002	Best Symposium	B. DeMarco	Zeon Chemical Inc.	Heat Aging of Elastomers Under-the-Hood
Spring	2001	Best Paper - Original Contribution	J. Putman, M. Arai	Pratt & Whitney, Shin--Etsu Chemical	Perfluoroether Elastomer Seal Development
Spring	2001	Honorable Mention - Original Contribution	G.J. Pehlert, N.R.Dharmarajan, and P.S. Ravishankar	ExxonMobil Chemical	Blends Of EPDM And Metallocene Plastomers For Wire And Cable Applications
Spring	2001	Best Paper - Review	M. Coughlin, R. Schnell And S. Wang	DuPont Dow Elastomers	Perfluoroelastomers In Severe Environments: Properties, Chemistry And Applications
Spring	2001	Best Symposium	V. Kothari	Therm---O---Link	Wire And Cable Applications
Fall	2001	Best Paper - Original Contribution	W. S. Fulton	Rhodia Industrial Specialties	Tyre Cord Adhesion --- Interface Morphology and the Influence of Cobalt
Fall	2001	Honorable Mention - Original Contribution	J.B. Putman and M.C. Putman	Tech Pro	An Improved Method for Measuring Filler Dispersion of Uncured Rubber
Fall	2001	Best Paper - Review	A.J.M. Sumner, R. Engelhausen, and J. Trimbach	Bayer AG	Polymer Developments to Improve Tire Life and Fuel Economy
Fall	2001	Best Symposium	G.T. Burns, J.E. Mark, T.A. Okel, S. Sumimura	Dow Corning, University of Cincinnati, PPG Industries	Silicone Rubber
Spring	2000	Best Paper - Original Contribution	J. W. M. Noordermeer and H.J.H. Beelen	DSM Elastomers	Understanding the Influence of Polymer and Compounding Variations on the Extrusion Behaviour of EPDM Compounds II: The Effect of Controlled Long Chain Branching

Spring	2000	Honorable Mention - Original Contribution	W.H. Waddell, R.C. Napier, and R.R. Poulter	ExxonMobil Chemical	Improved Tread Compound Wet/Winter Traction Using Brominated Isobutylene-co-para-Methylstyrene
Spring	2000	Best Paper - Review	J.C. Moreland and D.E. Hall	Michelin Americas	Fundamentals of Rolling Resistance
Spring	2000	Best Educational Symposium Paper	E. Bakuniec	Continental General Tire	Tire Construction for Normal Non Speed-Rated and High Speed-Rated Passenger Car Tires (OE, Replacement, All Season)
Spring	2000	Best Symposium	W. Hopkins	Bayer Rubber	Educational Symposium: Basic Tire Technology
Fall	2000	Best Paper - Original Contribution	W.V. Mars	Cooper Tire and Rubber	Cracking Energy Density as a Predictor of Fatigue Life under Multiaxial Conditions
Fall	2000	Honorable Mention - Original Contribution	A. N. Gent and M. Rassagi--Kashani	Goodyear Tire and Rubber	Energy Release Rate for a Crack in a Tilted Block
Fall	2000	Best Paper - Review	O.H. Yeoh, G. Pinter, and H.T. Banks	Lord Corp., North Carolina State University	Compression of Bonded Rubber Blocks
Fall	2000	Honorable Mention - Review	S. Abdou---Sabet	Consultant	Fifty Years of Thermoplastic Elastomer Innovations Review
Fall	2000	Best Symposium	J.T. Bauman, O.H. Yeoh	Elastomer Engineering and Testing, Lord Corp.	Engineering Design of Rubber Components
Spring	1999	Best Paper - Original Contribution	K. F. Castner	Goodyear	Improved Processing CIS-1, 4-Polybutadiene Contribution
Spring	1999	Best Paper - Review	A. W. Niziolek, R. H. Jones and J. G. Neilsen	Bayer	Influence of Compounding Materials on Tire Durability
Spring	1999	Honorable Mention - Original Contribution	M. C. Bulawa and P. S. Ravishankar	Exxon	Reduction of Peroxide Usage In EPDM Coolant Hose Via Polymer Redesign
Spring	1999	Best Educational Symposium Paper	A. G. Ferradino	R. T. Vanderbilt	Zinc 2---Mercaptotoluimidazole (ZMTI)---Review of a Unique and Versatile Antioxidant Synergist
Spring	1999	Best Symposium	A. L. Tisler, D. A. Kotz, H. W. Young and W. F. Cole	Exxon, du Pont, DSM Copolymer, Flexsys America	Educational Symposium: Specialty Elastomers and Protective Chemicals for Their Use
Fall	1999	Best Paper - Original Contribution	M.L. Kerns, Z.G. Xu, and S. Christian	Goodyear Tire	Synthesis of Random, Low Vinyl SSBR Using Distributed Monomer Feed Systems
Fall	1999	Best Paper - Review	J.R. Serumgard, M. Blumenthal	Rubber Manufacturers Association	Overview of Scrap Tire Management and Markets in the United States
Fall	1999	Honorable Mention - Original Contribution	T.M. Buckley, R.G. Vara, and R.F. Ohm	DuPont Dow Elastomers, R.T. Vanderbilt	Antidegradant System Development for EPDM Produced via Constrained Geometry Catalyst Technology

Fall	1999	Best Symposium	M. Engelhardt	Hankook Tire America	Surface/Interface Analysis of Tires and Rubber Compounds
Spring	1998	Best Paper - Original Contribution	N. R. Dharmarajan, P. S. Ravishankar, W.C. Horn and W. A. Lamberti	Exxon	New EPDM Elastomer for Wire and Cable Applications
Spring	1998	Best Paper - Review	J. B. Class	Hercules Incorporated	A Review of the Fundamentals of Crosslinking with Peroxide
Spring	1998	Honorable Mention - Original Contribution	R. F. Ohm, R. G. Vara and T. M. Buckley	R. T. Vanderbilt Co., du Pont	Sulfur Cure System Development for EPDM Produced Via Constrained Geometry Catalyst Technology
Spring	1998	Best Educational Symposium Paper	J. T. Byers	Degussa	Silane Coupling Agents For Enhanced Silica Performance
Spring	1998	Best Symposium	V. Kothari	Therm---O---Link	Wire and Cable Applications
Fall	1998	Best Paper - Original Contribution	D. R. Keller, L. Bryant and J. Dewar	Bayer	Enhanced Viscosity EVM Elastomers for General Purpose Molded and Extruded Applications
Fall	1998	Best Paper - Review	D. R. Hansen and S. J. St.Clair	Shell	Styrenic Thermoplastic Elastomers
Fall	1998	Honorable Mention - Original Contribution	A. C. Balazs, C. Singh and E. Zhulina	University of Pittsburgh	Modeling the Interactions Between Polymers and Clay Surfaces Through Self--Consistent Field Theory
Fall	1998	Best Symposium	A. J. Dias and D. G. Peiffer	Exxon	Polymer Blends
Spring	1997	Best Paper - Original Contribution	W. J. Patterson, M.---J. Wang, T. A. Brown and H. Money Penny	Cabot Corp. Tech. Center	Carbon/Silica Dual Phase Filler to Tire Tread Compounds
Spring	1997	Best Paper - Review	A. A. McNeish and J. T. Byers	Degussa Corp.	Low Rolling Resistance Tread Compounds---Some Compounding Solutions
Spring	1997	Honorable Mention - Original Contribution	U. Goerl and J. Muenzenberg	Degussa Corp.	Investigation into the Chemistry of the TESPT Sulfur Chain
Spring	1997	Best Educational Symposium Paper	A. Niziolek	Bayer	Solution SBR - Technology and Applications
Fall	1997	Best Paper - Original Contribution	J. Boerio, Y. M. Tsai and D. K. Kim	University of Cincinnati, Goodyear	Adhesion of Natural Rubber to Steel Substrates: The Use of Plasma Polymerized Primers
Fall	1997	Best Paper - Review	L. Pomini	Techint Compagnia	HDM Tangential Rotors Technical Features and Technological Aspects
Fall	1997	Honorable Mention - Original Contribution	X. Zhang and R. Whitehouse	Cabot Corp.	Compatibility of Carbon Blacks with Typical EPDM Extrusion Compounds: Phenomenon and Root Causes
Fall	1997	Honorable Mention - Review	N. Nakajima	University of Akron	Science of Mixing of Rubber

Fall	1997	Best Symposium	B. L. (Les) Lee and W. H. Waddell	Penn. State University, Exxon	Deformation and Fracture of Rubber Composites
Spring	1996	Best Paper - Original Contribution	R. F. Ohm and T. C. Taylor	R. T. Vanderbilt Co., du Pont	An Improved Curing System for Chlorine---Containing Polymers
Spring	1996	Best Paper - Review	P. R. Dean	Harwick Chem. Corp,	Material Solution Options---The Total Package
Spring	1996	Honorable Mention - Original Contribution	A. S. Goeringer, W. A. Wampler, M. Gerspacher and K Rajeshwar	Sid Richardson Carbon Comp.,	Electronic Characterization of Carbon Black
Spring	1996	Best Symposium	L. Evans and S. Mowdood	J. M. Huber, Pirelli	Tire Traction
Fall	1996	Best Paper - Original Contribution	M. D. Ellul	Advanced Elastomers	Novel Thermoplastic Elastomer Vulcanized Exhibiting Superior Low Temperature Performance and Elasticity
Fall	1996	Best Paper - Review	M. E. Wood and M. J. Recchio	Zeon Chemical Inc.	A Comparison of Improved HNBR Compounds versus Other Automotive Sealing Materials
Fall	1996	Honorable Mention - Original Contribution	A. A. Galuska, R. R. Poulter and K. O. McElrath	Exxon	AFM Force Modulation Microscopy of Immiscible Elastomer Blends: Morphology, Fillers and Cross---Linking
Fall	1996	Honorable Mention - Review	M. C. Phair and T. Wampler	CDS	Analysis Of Rubber Materials by Pyrolysis-Gas Chromatography
Fall	1996	Best Symposium	B. Rogers	Goodyear	Truck Tire Treadwear and Retreading
Spring	1995	Best Paper - Original Contribution	J. S. Dick and H. Pawlowski	Monsanto	Applications for the Curemeter Maximum Cure Rate in Rubber Compound Development and Process Control
Spring	1995	Best Paper - Review	W. H. Waddell and L. R. Evans	PPG Industries	Review of Applications of Proton Induced X-Ray Emission Spectroscopy to Tire Material Characterizations
Spring	1995	Honorable Mention - Original Contribution	R. L. Warley	Cabot Corp.	Dynamic Properties of Elastomers as Related to Vibration Isolator Performance
Fall	1995	Best Paper - Original Contribution	W. H. Waddell, L. R. Evans, L. J. Snodgrass and E. G. Goralski	PPG Industries	Mechanism by which Pecipitated Silica Improved Brass--- Coated Wire---to---Natural Rubber Adhesion
Fall	1995	Best Paper - Review	A. I. Kasner and E. A. Meinecke	University of Akron	Porosity in Rubber, A Review
Fall	1995	Honorable Mention - Original Contribution	K. O. McElrath and M. B. Measmer	Exxon	The Role of Additives in Improving Compression Set of Cured Rubber Compounds
Fall	1995	Honorable Mention - Review	H. W. Gunn and M. Cole	H. L. Blachford Ltd.	The Dollars and Sense of Anti-Track Coatings
Fall	1995	Best Symposium	F. Smith	ETA	International Review Program on Rubber Recycling

Spring	1994	Best Paper - Original Contribution	G. J. Arsenault, T. A. Brown and I. R. Jobe	Polysar Rubber	An Approach to Modern Polymer Development: Enhancement of the Service Temperature Range for Hydrogenated Nitrile-Butadiene Rubber (HNBR)
Spring	1994	Best Paper - Review	M. W. Rouse	Rouse Rubber Industries	Applications of Crumb Rubber Modifiers (CRM) in Asphaltic Materials
Spring	1994	Honorable Mention - Original Contribution	W. H. Waddell, L. R. Evans and J. R. Parker	PPG Industries	Improved Farm Tread Performance Using Precipitated Silica
Spring	1994	Honorable Mention - Review	E. Fesus	Goldsmith and Eggleton	Scrap Rubber: A Compounding Tool
Spring	1994	Best Symposium	F. G. Smith	Environmental Technologies Alternatives	Rubber Recycling Topical Rubber
Fall	1994	Best Paper - Original Contribution	D. F. Lawson, K. J. Kim and T. L. Fritz	Bridgestone/Firestone	Chemical Modifications of Rubber Surfaces
Fall	1994	Best Paper - Review	S. B. Nablo and K. Makuuchi	Energy Science, Japan E. E. R. E.	Techniques for Electron Vulcanization of Rubber
Fall	1994	Honorable Mention - Original Contribution	D. J. Sikora, H. J. Lin and O. Maender	Monsanto	Part I: New Ultra Accelerators - Vulcanization of High-Diene Rubbers
Fall	1994	Honorable Mention - Review	J. S. Dick	Monsanto	ASTM in the Globalization of Rubber Standards and Specifications
Fall	1994	Best Symposium	W. Waddell and M. Zaper	PPG Industries, Monsanto	Advanced Methodologies for Materials Testing
Spring	1993	Best Paper - Original Contribution	C. J. Rostek, H. J. Lin and D. J. Sikora	Monsanto, University of Florida	Novel Sulfur Vulcanization Accelerators Based on Mercaptopyridines
Spring	1993	Best Paper - Review	J. Ryba and M. B. Rodgers	Goodyear	Materials Requirements for Special Service Tires in Mining Applications
Spring	1993	Honorable Mention - Original Contribution	H. G. Kilian, M. Strauss and W. Hamm	University of Ulm	Universal Properties of Filler-Loaded Rubbers
Spring	1993	Best Symposium	T. G. Hutchins	Goodyear	Elastomers In Mining
Fall	1993	Best Paper - Original Contribution	D. K. Parker and R. F. Roberts	Goodyear	The Preparation, Properties and Potential Applications of Diimide-Hydrogenated Styrene-Butadiene (HSBR) and Polybutadiene (HBR) Thermoplastic Elastomers
Fall	1993	Best Paper - Review	J. R. Dunn	J. R. Dunn Consulting	Overview of Rubber Recycling
Fall	1993	Honorable Mention - Original Contribution	H. L. Hsu and A. F. Halasa	Goodyear	Preparation and Characterization of Crystalline 3,4- Polyisoprene

Fall	1993	Honorable Mention - Review	M. Beck	Polymer Valley Chemical Co.	Pyrolysis Carbon - An Overview
Fall	1993	Best Symposium	C. Baker	M. R. P. R. A.	Advances in Natural Rubber
Spring	1992	Best Paper - Original Contribution	J. A. Sezna	Monsanto	Rubber Testing for Injection Molding
Spring	1992	Best Paper - Review	A. D. Roberts	M. R. P. R. A.	Winter and All-Season Tires
Spring	1992	Honorable Mention - Original Contribution	O. K. Gardner, J. C. Wang and J. V. Fusco	Exxon	Crosslinking of Brominated p---Methylstyrene---Isobutylene Copolymers in Blends with General Purpose Rubbers
Spring	1992	Honorable Mention - Review	D. G. Rowland	Uniroyal	Expanding Rubber Through the Years
Spring	1992	Best Symposium	R. J. Hupp and W. B. Lee	Huls America, Lloyd Manufacturing	Advances in the Injection Molding of Rubber
Fall	1992	Best Paper - Original Contribution	C. R. Herd, G. C. McDonald, R. E. Smith and W. M. Hess	Columbian Chemicals	The Use of Skeletonization for the Shape Classification of Carbon Black Aggregates
Fall	1992	Best Paper - Review	R. Eller	Charles River Associates	Thermoplastic Elastomers in the Global Automotive Industry
Fall	1992	Honorable Mention - Original Contribution	A. Y. Coran and S. Lee	University of Akron, Monsanto	High Performance Elastomers Prepared by Dynamic Vulcanization
Fall	1992	Best Symposium	J. R. Dunn	Polysar Rubber Corp.	Elastomers for Automotive Applications
Spring	1991	Best Paper - Original Contribution	. Y. Coran and S. Lee	Monsanto	New Elastomers by Reactive Processing. Part II Dynamic Vulcanization of Blends by Trans---Esterification
Spring	1991	Best Paper - Review	F. L. McMillian	du Pont	Neoprene Latexes and their Applications
Spring	1991	Honorable Mention - Original Contribution	D. K. Parker, H. W. Schiessl and R. F. Roberts	Goodyear	A New Process for the Preparation of Highly Saturated Nitrile Rubber in Latex Form
Fall	1991	Best Paper - Original Contribution	R. C. Keller and D. A. White	Exxon	Electrochemical Influence on Carbon-Filled Ethylene-Propylene Elastomers
Fall	1991	Best Paper - Review	A. Limper and W. Haeder	Werner & Pfleiderer Gummitechnix	The Mixing Room Under System Aspects
Fall	1991	Honorable Mention - Original Contribution	R. W. Layer	B.F. Goodrich	Recuring Vulcanizates II. Effect of Added Accelerators
Fall	1991	Best Symposium	H. Young	Copolymer Rubber and Chemical Corp.	Polymer-Fluid-Filler Interactions

Spring	1990	Best Paper - Original Contribution	F. K. Jones, L. L. Outzs and G. Liolios	du Pont	The Effect of Heat Generation on the Performance of Several Elastomers for Automotive Use
Spring	1990	Best Paper - Review	R. P. Quirk	University of Akron	Recent Advances in Anionic Synthesis of Functionalized Polymers
Spring	1990	Honorable Mention	E. A. Meinecke	University of Akron	Effect of Crosslink Density and Carbon-Black Loading on the Heat Build-up in Elastomers
Fall	1990	Best Paper - Original Contribution	R. A. Swor, W. M. Hess and E. J. Micek	Columbian Chemical	New High-Structure Tread Black for Compounding Flexibility
Fall	1990	Best Paper - Review	R. P. Quirk and J. Kim	University of Akron	Recent Advances in Thermoplastic Elastomer Synthesis
Fall	1990	Honorable Mention	R. D. Vargo and F. N. Kelley	University of Akron	Properties of Highly Filled, Highly Plasticized, Semicrystalline Polymer Networks
Spring	1989	Best Paper - Original Contribution	J. V. Fusco, I. J. Gardner, P. Hons and D. S. Tracey	Exxon	Chlorobutyl Designed for Curing Members
Spring	1989	Best Paper - Review	D. L. Hertz, Jr.	University of Akron	Solubility Parameter Concepts
Spring	1989	Honorable Mention - Original Contribution	F. L. Magnus and G. R. Hamed	University of Akron	Role of Phenolic Tackifiers in Polyisoprene Rubber
Spring	1989	Honorable Mention - Review	D. I. Livingston	Goodyear	Factors Affecting Tire Mileage in Even Wear
Fall	1989	Best Paper - Original Contribution	D. K. Parker, H. A. Colvin, A. W. Weinstein and S. Chen	Goodyear	Reactively Curable Rubbers---I: Diene Elastomers with Pendant Isocyanate and/or Hydroxyl Functionality
Fall	1989	Best Paper - Review	C. S. L. Baker	M. R. P. R. A.	Advances in Natural Rubber Science and Technology
Fall	1989	Honorable Mention	W. M. Grootaert, R. E. Kolb and A. T. Worm	3M	A Novel Fluorocarbon Elastomer for High---Temperature Sealing Applications in Aggressive Motor---Oil Environments
Spring	1988	Best Paper	R. B. Layer	B. F. Goodrich	Synergism between Thiocarbonyl Sulfenamide and 2-Benzothiazyl Sulfenamide Accelerators in Various Rubbers
Spring	1988	Best Paper - Review	R. P. Lattimer and R. E. Harris	B. F. Goodrich	Analysis of Components in Rubber Compounds Using Mass Spectrometry
Spring	1988	Honorable Mention - Original Contribution	R. P. Lattimer, R. A. Kinsey and R. W. Layer	B.F. Goodrich	The Mechanism of Phenolic Resin Vulcanization of Unsaturated Elastomers
Spring	1988	Honorable Mention - Review	M. Gerspacher and C. M. Lansinger	Goodyear	Carbon Black Characterization and Application to Study Polymer/Filler Interaction

Fall	1988	Best Paper - Original Contribution	K. L. Rollick, J. G. Gillick, J. L. Bush and J. A. Kuczkowski	Goodyear	Triazine Thiones: A New Class of Nonstaining Nondiscoloring Antiozonants
Fall	1988	Best Paper - Review	K. Cas and J. S. Bigelow	Exxon	Capability and Performance Indices: Proper Use in the Process Industries
Fall	1988	Honorable Mention - Original Contribution	A. J. Tinker and M. J. R. Loadman	Malaysian Rubber Producers	Estimation of the Extent of Crosslinking in the Phases of Vulcanized Rubber Blends By CW 1H NMR Spectroscopy
Fall	1988	Honorable Mention - Review	J. R. Dunn	Polysar, Ltd.	Compounding for Modern Automotive Requirements
Spring	1987	Best Paper	T. W. Besuden and L. L. Beumel	Naval Research, Texas Research	Resistivity of Rubber as a Function of Mold Pressure
Spring	1987	Honorable Mention	L. G. Gatti	Armstrong Rubber	Acceleration Dependent Hysteresis, Nonvibration Testing for Viscoelastic Properties
Spring	1987	Honorable Mention	A. M. Zaper and J. L. Koenig	Case Western Reserve University	Solid State Carbon-13 NMR Studies of Accelerated Sulfur--- Vulcanized Natural Rubber
Fall	1987	Best Paper	M. D. Ellul and R. J. Emerson	GenCorp	A New Pull-Out Test For Tire Cord Adhesion. Part I Hot Bonding
Fall	1987	Honorable Mention	M. D. Ellul and R. J. Emerson	GenCorp	A New Pull-Out Test For Tire Cord Adhesion. Part II Cold Bonding
Fall	1987	Honorable Mention	R. J. Eldred	General Motors	Effect of Oriented Platy Filler on the Fracture Mechanism of Elastomers
Spring	1986	Best Paper	D. G. Young	Exxon	Fatigue Crack Propagation in Elastomer Compounds: Effects of Strain Rate, Temperature, Strain Level, and Oxidation
Spring	1986	Honorable Mention	R. P. Lattimer, R. E. Harris, C. K. Rhee	B. F. Goodrich	Identification of Organic Additives in Rubber Vulcanizates by Using Mass Spectrometry
Spring	1986	Honorable Mention	D. C. Edwards	Polysar, Ltd.	A High---Performance Curing System for Halobutyl Elastomers
Fall	1986	Best Paper	R. W. Layer	B. F. Goodrich	A Postcrosslinking Accelerator System for Natural Rubber Based on Thiocarbamyl Sulfenamides
Fall	1986	Honorable Mention	L. C. Yanyo and F. N. Kelley	Lord Corp., University of Akron	Effect of Chain Length Distribution of the Tearing Energy of Silicone Elastomers
Fall	1986	Honorable Mention	D. Chaembaere and W. Coppens	NV Bekaert S. A.	Determination and Influences of the Electrical Resistances Involved in the Corrosion of the Rubber---Steel Cord Composite
Spring	1985	Best Paper	S. Bagrodia, G. L. Wilkes and J. P. Kennedy	Virginia State University; University of Akron	Solid State Mechanical Properties of Sulfonated Telechelic Polyisobutylene-Based Elastomeric Ionomers
Spring	1985	Honorable Mention	D. Y. Sogah, O. W. Webster and W. R. Hertler	du Pont	Synthesis of Block Copolymers by Group Transfer Polymerization
Spring	1985	Honorable Mention	W. P. Gergen, S. Davidson and R. G. Lutz	Shell	Thermoplastic Elastomer IPN's
Fall	1985	Best Paper	J. F. Stevenson	GenCorp	Multidimensional Control with a Single Roller Die
Fall	1985	Honorable Mention	C. B. Shulman	Exxon	Unique Features of High Unsaturation EPDM Polymers

Fall	1985	Honorable Mention	R. P. Lattimer, J. Gianelos, H. E. Diem, R. W. Layer and C. K. Rhee	B. F. Goodrich	Mechanisms of Antiozonant Protection: Unextractable Nitrogen in Aged cis-Polybutadiene Vulcanizates
Spring	1984	Best Paper	G. Anthoine, E. R. Lynch, D. E. Mauer and P. G. Moniotte	Monsanto	A New Concept to Stabilize Cured NR Properties During Thermal Aging and Improve Adhesion to Brass
Spring	1984	Honorable Mention	C. S. L. Baker, I. R. Gelling and R. L. Newell	M. R. P. R. A.	Epoxidized Natural Rubber
Spring	1984	Honorable Mention	H. L. Hsieh and H. C. Yeh	Phillips Petroleum	Butadiene and Isoprene Polymers and Copolymers Prepared with Lanthanide Catalysts
Fall	1984	Best Paper	R. J. Eldred	General Motors	Plasticization by In Situ Grafted Acrylates II
Fall	1984	Honorable Mention	R. G. Stacer, L. C. Yanyo and F. N. Kelley	University of Akron	Observations on the Tearing of Elastomers
Fall	1984	Honorable Mention	R. Vukov and G. J. Wilson	NACAN Prod., Polysar	Crosslinking Efficiencies of Some Halobutyl Curing Reactions
Spring	1983	Best Paper	A. N. Gent	University of Akron	Fracture Mechanics Applied to Elastomeric Composites
Spring	1983	Honorable Mention	L. E. Porter	Goodyear	The Isolation and Identification of Contaminants in Rubber by Microscopical Techniques
Spring	1983	Honorable Mention	W. E. Thibodeau, P. S. Johnson and K. R. Gark	Polysar Limited	An Application of Microcomputors in Rubber Mixing
Fall	1983	Best Paper	W. M. Hess, R. A. Swor and E. J. Micek	Columbian Chemicals	The Influence of Carbon Black, Mixing and Compounding Variables on Dispersion
Fall	1983	Honorable Mention	J. D. Skewis	Uniroyal	The Influence of Environmental Conditions on Tack of Rubber Compounds
Fall	1983	Honorable Mention	G. R. Hamed and C.H. Shieh	University of Akron	Tack and Related Properties of Isopropyl Azodicarboxylate Modified Polybutadiene
Spring	1982	Best Paper	H. L. Stephens and T. H. Hashmi	University of Akron	Prevulcanization of Natural Rubber Latex in Dipped Goods Manufacture
Spring	1982	Honorable Mention	L. Spenadel	Exxon Chemical	Heat Aging Performance of Ethylene Propylene Elastomers in Electrical Insulation Compounds
Fall	1982	Best Paper	G. R. Hamed and T. Donatelli	University of Akron	Effect of Accelerator Type on Brass---Rubber Adhesion
Fall	1982	Honorable Mention	M. E. Martini	Firestone	Passenger Tire Rolling Loss: A Tread Compounding Approach and its Tradeoffs
Fall	1982	Honorable Mention	G. L. Finley and H. J. Herzlich	Armstrong Rubber	Tredloc---A Unique Engineering Technology for Radial Ply Tires
Spring	1981	Best Paper	T. H. Kuan and J. G. Sommer	General Tire	Water---resistant Release coating for Uncured Rubber
Spring	1981	Honorable Mention	M. T. Maxson and C. L. Lee	Dow Corning	Effects of Fumed Silica Treated with Functional Disilazanes on Silicone Elastomer Properties
Spring	1981	Honorable Mention	R. S. Ro	du Pont	Vinyl Adhesives from Neoprene/Methyl Methacrylate Graft Polymers
Fall	1981	Best Paper	R. C. Hirst	Goodyear Tire and Rubber	Applications of Computerized Infrared and Nuclear Magnetic Resonance Spectroscopic Techniques to Rubber Analysis

Fall	1981	Honorable Mention	J. J. Maurer and D. W. Brazier	Exxon Research, Dunlop Research	Applications of Thermal Analysis in the Rubber Industry
Fall	1981	Honorable Mention	R. W. Smith and A. G. Veith	B.F. Goodrich	Electron Microscopical Examination of Worn Tire Treads and Tread Debris
Spring	1980	Best Paper	D.D. Werstler	General Tire	Analysis of Cured, Filled Elastomeric Compounds by ¹³ C NMR
Spring	1980	Honorable Mention	R.P. Lattimer, E.R. Hooser, H.E. Diem,	B.F. Goodrich	Mechanisms of Ozonation of N,N'-di-(1-methylheptyl)-p-phenylenediamine
Spring	1980	Honorable Mention	C.K. Rhee and J.C. Andries	B.F. Goodrich	Factors Which Influence Autohesion of Elastomers
Fall	1980	Best Paper	G.R. Hamed	University of Akron	Tack and Green Strength of NR, SBR, and NR/SBR Blends
Fall	1980	Honorable Mention	L.A. Goettler, R.I. Leib, and A.J. Lambright	Monsanto	Extrusion---Shaping of Curved Hose Reinforced with Short Cellulose Fibers
Fall	1980	Honorable Mention	C.R. Wilder, J.R. Haws, and W.T. Cooper	Phillips Petroleum Company	Effects of Carbon Black Types on Treadwear of Radial and Bias Tires at Variable Test Severities
Spring	1979	Best Paper	D.M. Coddington	Exxon Chemical	Inflation Pressure Loss in Tubeless Tires --- Effects of Tire Size, Service and Construction
Spring	1979	Honorable Mention	L.A. Goettler, R.I. Leib, and A.J. Lambright	Monsanto	Short Fiber Reinforced Hose --- A New Concept in Production and Performance
Spring	1979	Honorable Mention	N.L. Hewitt and M.P. Wagner	PPG Industries	New Developments in a Dynamic Wire Adhesion Test
Fall	1979	Best Paper	R.P. Lattimer and K.R. Welch	B. F. Goodrich	Direct Analysis of Polymer Chemical Mixtures by Field Desorption Mass Spectroscopy
Fall	1979	Honorable Mention	D.C. Edwards and K. Sato	Polysar	The Interaction of Silica with Functionalized SBR
Fall	1979	Honorable Mention	J. Janzen and G. Kraus	Phillips Petroleum Company	New Methods for Estimating Dispersibility of Carbon Blacks in Rubber
Spring	1978	Best Paper	E. J. Buckler, G. J. Briggs, J.R. Dunn, E. Lasis, and Y. K. Weis	Polysar	Green Strength in Emulsion SBR
Spring	1978	Honorable Mention	P. C. Vegvari, W. M. Hess, and V. E. Chirco	Columbian Chemicals	Measurement of Carbon Black Dispersion in Rubber by Surface Analysis
Spring	1978	Honorable Mention	F. K. Lautenschlaeger and P. Zeeman	Polysar	Model Compound Vulcanization, Part II: Accelerator Comparisons for Natural Rubber
Fall	1978	Best Paper	J. R. Falender, G. S. Y. Yeh, J. E. Mark	University of Michigan, University of Cincinnati	The Effect of Crosslink Distribution on Elastomeric Properties
Fall	1978	Honorable Mention	D. Barnard	Malaysian Rubber Producers Assn.	Natural Rubber Research Perspectives and Strategies
Fall	1978	Honorable Mention	J. R. Dunn, H. A. Pfisterer, and J. J. Ridland	Polysar	NBR Vulcanizates Resistant to High Temperature and Peroxidized Gasoline
Spring	1977	Best Paper	G. C. McDonald and W. M. Hess	Columbian Chemicals	Carbon Black Morphology in Rubber
Spring	1977	Honorable Mention	J. F. Krymowski and R. D. Taylor	B. F. Goodrich	Chemical Reactions between Thiocarbamylsulfenamides and Benzothiazolesulfenamides
Spring	1977	Honorable Mention	J. D. Byam and G. P. Colbert	du Pont	Applying Science to Processing Profitably. Part I: Injection Molding

Fall	1977	Best Paper	J. R. Dunn, D. C. Coulthard, and H. A. Pfisterer	Polysar	Advances in Nitrile Rubber Technology, A Review
Fall	1977	Honorable Mention	P. A. Lindfors, W. M. Riggs, and L. E. Davis	Physical Electronics Ind.	Application of Three Surface Analytical Techniques (AES, XPS, and SIMS) to the Study of Polymers and Metals
Fall	1977	Honorable Mention	R. R. Rahalkar, C. U. Yu, and J. E. Mark	University of Michigan	The Ultimate Properties of Unswollen Polydimethylsiloxane Networks and their Dependence on the Degree of Crosslinking and the Amount of Diluent Present during the Crosslinking Process
Spring	1976	Best Paper	S. L. Cooper, J. C. West, and A. Lilaonitkul	University of Wisconsin	Properties of Polyether-Polyester Thermoplastic Elastomers
Spring	1976	Honorable Mention	J. G. Sommer, H. N. Grover, and P. T. Suman	General Tire	In-place Cleaning of Rubber Curing Molds
Spring	1976	Honorable Mention	R. M. Pierson, T. G. Gurley, D. V. Hillegass, and R. J. Arcanti	Goodyear	Research on Uses of Rubber in the Cardiovascular System
Fall	1976	Best Paper	B.B. Boonstra	Cabot Corp.	Resistivity of Unvulcanized Rubber Carbon Black Compounds
Fall	1976	Honorable Mention	M.P. Wagner	PPG Industries	Silica – A Petroleum-Free Reinforcing Filler
Fall	1976	Honorable Mention	R.A. Buchanan, I.M. Cull, F.H. Otey, and C.R. Russell	U.S. Dept. of Agriculture	Hydrocarbon and Rubber Producing Crops: Evaluation of U.S. Plant Species
Spring	1975	Best Paper	N. M. van Gulick, J. J. Verbanc, P. P. Caruso, and R. J. Athey	du Pont	Coordination Complexes of Methylene Dianiline - Chemistry and Applications
Spring	1975	Honorable Mention	H. Cohen, J. A. Rae, and D. J. Buckley	Exxon	High Molecular Weight, Highly Unsaturated Isobutylene-Conjugated Diene Copolymers. A New Family of Elastomers. II. Properties and Performance
Spring	1975	Honorable Mention	M. Morton and D. C. Rubio	University of Akron	Synthesis and Properties of Uniform Polyisoprene Networks
Fall	1975	Best Paper	R.T. Morrissey	B.F. Goodrich	Sulfur-Cure Compatible Blends of Halogenated Ethylene-Propylene Copolymers and Diene Rubber
Fall	1975	Honorable Mention	D.F. Brizzolara, W. Honsberg, and R.W. Keown	DuPont	A New Carboxylated Neoprene Latex
Fall	1975	Honorable Mention	M. Kato and J.E. Mark	University of Michigan	The Effects of Temperature on the Stress-Strain Isotherms of Polyisobutylene Networks at High Elongation
Spring	1974	Best Paper	J. R. Dunn	Polysar	Review of Unsolved Problems in Protection of Rubber against Oxidative Degradation
Spring	1974	Honorable Mention	H. E. Railsback and N. A. Stumpe	Phillips	Blends of Medium Vinyl Polybutadienes with SBR Rubbers
Spring	1974	Honorable Mention	J. R. Shelton	Case Western Reserve University	Role of Certain Organic Sulfur Compounds as Preventive Antioxidants
Fall	1974	Best Paper	D. W. Brazier and G. H. Nickel	Dunlop	Thermoanalytical Methods in Vulcanizate Analysis I: Differential Scanning Calorimetry and Heat of Sulfur Vulcanization

Fall	1974	Honorable Mention	H. A. Pfisterer and J. R. Dunn	Polysar	Assessing the Performance of Oil-Resistant Vulcanizates at High Temperatures
Fall	1974	Honorable Mention	J. C. Andries, D. B. Ross, and H. E. Deim	B.F. Goodrich	Ozone Attack and Anitozonant Protection of Vulcanized Natural Rubber Compounds: A Surface Study by Attenuated Total Reflectance Spectroscopy
Spring	1973	Best Paper	J. C. Falk, R. J. Schlott, D. F. Hoeg and J. F. Pendleton	Borg-Warner	New Thermoplastic Elastomer-Stryene Grafts on Lithiated Polydienes and Hydro-generated Counterparts
Spring	1973	Honorable Mention	T. C. Bouton and S. Futamura	Firestone	Solution SBR-Study in Copolymerization Dynaimcs
Spring	1973	Honorable Mention	A. C. Patel and M. Deviney	Ashland	Precision Treadwear Measurements at Increased Mileages Vai Improved Radioiodine Method
Fall	1973	Best Paper	K. C. Baranwal and P. N. Son	B. F. Goodrich	Co-curing Blends of EPDM plus Diene Rubbers by Grafting Accelerators onto EPDM
Fall	1973	Honorable Mention	R. W. Seymour and S. L. Cooper	University of Wisconsin	Viscoelastic Properties of Polyurethane Block Polymers
Fall	1973	Honorable Mention	F. K. Lautenschlaeger	Dunlop	Observations on Crosslinking of NR with Nitrosophenols plus Diisocyanates
Spring	1972	Best Paper	M. J. Brock and M. J. Hackathorn	Firestone	Synergistic Effect of NR on Crystallization of Lithium Polyisoprenes
Spring	1972	Honorable Mention	A. I. Medalia	Cabot	Effective Degree of Immobilization of Rubber Occluded within Carbon Black Aggregates
Spring	1972	Honorable Mention	F. W. Wilcox	Witco	Millable Urethane Elastomers
Fall	1972	Best Paper	R. L. Zapp	Exxon	Chlorobutyl Covulcanization Chemistry and Interfacial Bonding
Fall	1972	Honorable Mention	R. F. Hoffman and R. H. Gobpan	Thiokol	A New Role for Liquid Carboxyl Terminated Polybutadiene Polymers
Fall	1972	Honorable Mention	G. E. Meyer, R. W. Kauchok, and F. J. Naples	Goodyear	Emulsion Rubbers with Copolymerized Monomeric Antioxidants
Spring	1971	Best Paper	R. T. Morrissey	B. F. Goodrich	Halogenation of EPDM
Spring	1971	Honorable Mention	J. R. Shelton, J. L. Koenig, and M. M. Coleman	Case Western Reserve University	Raman Studies
Spring	1971	Honorable Mention	M. L. Janssen and J. D. Walter	Firestone	Strain Measurements on Tires
Fall	1971	Best Paper	N. G. Bartfug	PPG Industries	High DPU--- Major Factor in Good Fiberglass Tire Cord Performance
Fall	1971	Honorable Mention	M. C. Throckmorton and F. S. Farson	Goodyear	An HF-Ni-R3Al Catalyst System for Producing High-cis 1,4-Polybutadienes
Fall	1971	Honorable Mention	K. T. Potts and E. G. Bruge	Rensselear Polytech.	Electron Impact Induced Prgmentations of Benzothiazole Sulfenamides and Related Compounds: Correlation with Rubber Accelerator Activity.
Spring	1970	Best Paper	F. K. Haas	Bayer	Properties of a 1,5-trans-Polypentenamer Produced by Polymerization through Ring Cleavage Cyclopentene
Spring	1970	Honorable Mention	F. J. Kovac	Goodyear Tire and Rubber	Technological Forecasting
Spring	1970	Honorable Mention	R. I. Leib, A. B. Sullivan, and C. D. Trivette, Jr.	Monsanto	Prevulcanization Inhibitor: The Chemistry of Scorch Delay

Fall	1970	Best Paper	J. E. Lewis, H. M. Mercer, M. Deviney, L. Hughes, and J. F. Jewell	Ashland	Autoradiographic Electron Microscopy of Elastomer Blends
Fall	1970	Honorable Mention	J. L. Koenig, J. R. Shelton, and M. M. Coleman	Case Western Reserve University	Raman Spectra of Vulcanized Rubber
Fall	1970	Honorable Mention	V. L. Folt	B. F. Goodrich	Crystallization of cis---Polyisoprenes in a Capillary Rheometer
Spring	1969	Best Paper	J. C. Ambelang, F. H. Wilson, L. E. Porter, and D. L. Turk	Goodyear	Ozone Crack Initiation--- Statistical and Deterministic Interpretation of Action of p--Phenylenediamines and EPDM as Antiozonants
Spring	1969	Honorable Mention	R. W. Wise and W. R. Deason	Monsanto	Programmed Temperature Curemetry
Spring	1969	Honorable Mention	I. Prettyman and M.J. Forster	Firestone	New Improved Tire Cord Fatigue Tester
Fall	1969	Best Paper	C.S.L. Baker, O. Barnard, and M. Porter	NRPRA	New Reactions for Vulcanization of Natural Rubber
Fall	1969	Honorable Mention	W.F. Fischer	Enjay	Profile Vulcanization – II, Inconstant Nature of Elastomer Vulcanization
Fall	1969	Honorable Mention	F.P. Baldwin, D. Borzel, C.A. Cohen, M.S. Makowski, and J.F. Van DeCastle	Enjay, Esso	Influence of Residual Olefin Structure on EPDM Vulcanization
Spring	1968	Best Paper	J. B. Gardiner	Enjay	Curative Diffusion Between Dissimilar Elastomers and Its Influence on Adhesion
Spring	1968	Honorable Mention	E. P. Percarpio and E. M. Bevilacqua	Uniroyal	Fundamental Aspects of Lubricated Friction of Rubber, Part VI
Spring	1968	Honorable Mention	M. L. Deviney, J. E. Lewis, and B. G. Corman	Ashland, Esso	Migraton of Extender Oil in Natural and Synthetic Rubber. III.
Fall	1968	Best Paper	G. Kraus and J. T. Gruver	Phillips	Viscosity of Carboxy-Terminated Polybutadienes
Fall	1968	Honorable Mention	W. H. Whittington, M. L. Deviney, and J.E. Lewis	Ashland	Migration of Antioxidants and Accelerators in Natural and Synthetic Rubber. II. Sulfenamide System Studies and Comparison of Age Resistor Migration Under Inert and Practical Conditions
Fall	1968	Honorable Mention	W. F. Fischer	Enjay	Profile Vulcanization--- New Method for Measuring Total Vulcanization History of Elastomers
Spring	1967	Best Paper	V. F. Fischer and W. H. King, Jr.	Enjay	New Method of Measuring Oxidation Stability of Elastomers
Spring	1967	Honorable Mention	W. M. Hess, L. L. Ban, F. J. Eckert, and V. Chirico	Columbian Carbon	Microstructural Variations in Commercial Carbon Blacks
Spring	1967	Honorable Mention	R. A. Livigni, L. Marker, G. Shkapenko, and S. L. Aggarwal	General Tire	Structure and Transition Behavior of Isoprene---Styrene Copolymers of Different Sequence Length
Spring	1967	Honorable Mention	V. D. Mochel	Firestone	NMR Compositional Analysis of Copolymers
Spring	1967	Honorable Mention	M. Morton, P. C. Juliano, J. E. McGrath	University of Akron	Structure-Property Relations of Styrene-Diene Thermoplastic Elastomers
Spring	1967	Honorable Mention	G. Vitolins	Enjay	Adhesion of Chlorobutyl Blends to Highly Unsaturated Elastomers. Effects of Vulcanization and Carbon Blacks

Fall	1967	Best Paper	M. L. Deviney and L. E. Whittington	Ashland	Radiotracer Studies of Carbon Black Surface Interactions with Organic Systems
Fall	1967	Honorable Mention	J. W. Horvath, W. A. Wilson, H. S. Lundstrom, and J. R. Purdon	Goodyear	Investigation of Factors Influencing Properties of NBR/PVC Blends
Fall	1967	Honorable Mention	P. A. Marsh, A. Voet, and L. D. Price	Columbian Carbon, Center Research CNRS	Electron Microscopy of Heterogeneous Elastomer Blends
Fall	1967	Honorable Mention	R. A. Buchanan, O. E. Weislogel, C. R. Russell, and C. E. Rist	Northern Res. Lab. U. S. Dept. of Agr., Peoria, Illinois	Starch in Rubber. I. Zinc Starch Xanthate In Later Masterbatching
Fall	1967	Mention	R. D. Stiehler, E. J. Parks, and F. J. Linnig	Nat. Bur. Standards	Stiffening of Elastomers by Organic Fillers
Fall	1967	Honorable Mention	B. L. Williams and L. Weissbein	American Cyanamid	Torsional Braid Analysis of Antioxidant Activity in Elastomer Systems
Spring	1966	Best Paper	W. R. Griffin	Wright Patterson AFB	Triazine Elastomers
Spring	1966	Honorable Mention	C. L. Whipple and J. A. Thorne	Rubbermaid	Performance of Elastomeric Silicone in Ablative and Space Environments
Spring	1966	Honorable Mention	R. I. Leininger, R. D. Falb, and G. A. Grode	Battelle	Performance of Elastomers in the Human Body
Spring	1966	Honorable Mention	E. M. Bevilacqua	Uniroyal	Aging of SBR II
Spring	1966	Honorable Mention	S. D. Gehman and G. M. Larsen	Goodyear	Rapid Treadwear Ratings with Radioactive Isotopes
Spring	1966	Honorable Mention	G. R. Cotten	Cabot	Carbon Black Reinforcement in preswollen Rubbers
Fall	1966	Best Paper	W. M. Hess, C. E. Scott, and J. E. Callan	Columbian Carbon	Carbon Black Distribution in Elastomer Blends
Fall	1966	Honorable Mention	H. K. J. de Decker and K. J. Sabatini	Texas--- U. S.	Dynamic Properties of Elastomer Blends
Fall	1966	Honorable Mention	G. W. Ross, J. F. Svetlik, D. D. Dearmont, and M. H. Richmond	Phillips	Solution Butadiene-Styrene Block Compounds in Blends for Specific Applications
Fall	1966	Honorable Mention	J. M. Willis, and R. L. Denecour	Firestone	Tire Tread Application of EPDM---Butyl Blends
Fall	1966	Honorable Mention	C. W. Snow and F. W. Barlow	United Carbon	Curing Rates of Carbon Blacks in SBR by Classical and Modern Methods
Spring	1965	Best Paper	L. W. Gamble, L. Westerman, and E. A. Knipp	Esso	Molecular Weight Distribution of Elastomers: Comparison of GPC with Other Techniques
Spring	1965	Honorable Mention	R. J. Athey	du Pont	Compounding Liquid Urethane Elastomers for Compression Molding
Spring	1965	Mention	W. M. Hess, P. A. Marsh, and F. J. Eckert	Columbian Carbon	Carbon-Elastomer Adhesion: (1) Analysis, (2) Influencing Factors
Spring	1965	Honorable Mention	F. A. Heckmann and D. F. Darling	Cabot	Progressive Oxidation of Selected Particles of Carbon Black: Further Evidence for a New Microstructural Model
Spring	1965	Honorable Mention	R. R. Barnhart and J. C. Mitchell	U. S. Rubber	New Accelerators for EPDM Compounds

Fall	1965	Best Paper	E. M. Dannenberg and J.J. Brennan	Cabot	Strain Energy as Criterion for Stress Softening in Carbon Black Filled Vulcanizates
Fall	1965	Honorable Mention	H. M. Cole, D. L. Petterson, V. A. Sljaka,	Cabot	Identification of Polymers in Compounded Cured Rubber Stock by Pyrolysis/Two Channel Gas Chromatography
Fall	1965	Honorable Mention	J. D. Skewis	U. S. Rubber	Self-Diffusion Coefficients and Tack Properties of Some Rubbery Polymers
Fall	1965	Honorable	B. A. Hunter and M. J. Kleinfeld	U. S. Rubber	Low Temperature Expansion of Polysulfide Rubbers
Fall	1965	Honorable Mention	C. Booth	Esso	Factors Influencing Rubber Injection Molding Process
Spring	1964	Best Paper	J. E. Callan, W. E. Ford, and B. Topak	Columbian Carbon	Butyl Blends--- Processing and Properties
Fall	1964	Best Paper	B. M. Vanderbilt, and R. E. Clayton	Enjay	The Bonding of Fibrous Glass to Elastomers
Fall	1964	Honorable Mention	M. Gippin	Firestone	Stereoregular Polymerization of Butadiene with $AlCl_3$ and Cobalt Octoate
Fall	1964	Honorable Mention	S. A. Banks, F. Brzenk, J. A. Rae, and C. S. Hwa	Enjay	Effect of Intracarass Pressure Buildup on tubeless Tire Performance
Fall	1964	Honorable Mention	W. W. Barbin	Firestone	Vulcanization Characteristics of Polybutadiene
Fall	1964	Honorable Mention	M. A. Dudley and A. J. Wallace	Enjay	Compounding Chlorobutyl Rubber for Heat Resistance
Spring	1963	Best Paper	W. F. Brucksch	U. S. Rubber	Vinyl Pyridine Rubber (PBR)--- Filler Interactions
Fall	1963	Best Paper	W. E. Claxton and J. W. Liska	Firestone	Calculations of State of Cure in Rubber Under Variable Time--- Temperature Conditions
Spring	1962	Best Paper	P. E. Wei and J. Rehner, Jr.	Esso	New Vulcanizing Agents for Ethylene---Propylene Elastomers--- II
Fall	1962	Best Paper	W. M. Hess and K. A. Burgess	Columbian Carbon	Groove Cracking in Tire Treads--- A Microscopic Study
Spring	1961	Best Paper	W. M. Hess	Columbian Carbon	The Analysis of Pigment Dispersion in Rubber by Means of Light Microscopy, Microradiography, and Electron Microscopy
Fall	1961	Best Paper	E. K. Gladding, B. S. Fisher, and J. W. Collette	du Pont	A New Hydrocarbon Elastomer---I
Spring	1960	Best Paper	W. A. Smith and J. M. Willis	Firestone	Diene Rubber---Compounding and Testing
Fall	1960	Best Paper	R. M. Murray and J. D. Detenber	du Pont	A Study for First--- and Second---Order Transitions in Neoprene
Spring	1959	Best Paper	H. W. Kilbourne, G. R. Wilder, J. E. Van Verth, and J. O. Harris	Monsanto	Chemical Inhibition of Ozone Degradation of SBR
Spring	1958	Best Paper	G. Krauss and R. L. Collins	Phillips Petroleum	Odd Electrons in Rubber Reinforcing Blacks
Fall	1958	Best Paper	R.A. Pike, T.C. Williams, and F.A. Fekete	Union Carbide	Cyanosilicone Elastomers – A New Class of Solvent Resistant, High Temperature Rubbers
Spring	1957	Best Paper	W.G. Forbes and L.A. McLeod	Polymer Corp.	Dependence on Tack Strength on Molecular Properties
Fall	1957	Best Paper	H.E. Diem, H. Tucker and C.F. Gibbs	B.F. Goodrich	Cis---1, 4 Polyisoprene Rubber by Alkyl Lithium Polymerization

Spring	1956	Best Paper	H. G. Dawson	Firestone	A Zinc Oxide Test for Hevea Latex
Fall	1956	Best Paper	S.W. Boggs and W.P. Rieman	U.S. Rubber	Physics on the Friction of Rubber on Rough Surfaces
Spring	1955	Best Paper	J. S. Rugg and G. W. Scott	du Pont	Adipene B, Urethane II: Factors Influencing its Processability
Fall	1955	Best Paper	G. K. Sutherland and J. P. McKenzie	University of Michigan	A Glass Polymerization Vessel for Small Scale Laboratory Studies