

1971-2021

50 PMA years

In 1971, leaders in the cast urethane industry identified the need for an association to establish a forum for the exchange of technical and management ideas of mutual interest. The first Polyurethane Manufacturers Association (PMA) meeting was called on April 7, 1971, where objectives and plans were developed. PMA was officially born on January 10, 1972, when it was incorporated as a not-for-profit organization. Twenty-two companies enrolled as charter members.



CHARTER COMPANIES

Acushnet Company/Titleist

Albert Trostel Packings, Ltd

American Cyanamid Company
(Coim USA Inc)

Anderson Development
Company

Samuel Bingham Company

Dayton Coatings &
Chemicals Division

El duPont de
Nemours & Company

Gallagher Corporation

Henley & Company

Kastalon, Inc /
MACO Industries

McCreary Industrial
Products Company

Molded Dimensions, Inc

The Nazar Rubber Company

The Quaker Oats Company

Rapistan, Inc

Rubber Rolls, Inc

Superior Tire Engineering

Thiokol Chemical

Thombert, Inc

Vail Rubber Works

Winfield Industries

Witco Corporation (LANXESS)

POLYURETHANE MANUFACTURERS ASSOCIATION

Celebrating a half-century of innovative leadership

MOCA BEGINNINGS

BETWEEN 1972 AND 1975

OSHA and EPA(TSCA) attempted to designate MOCA as a “known human carcinogen” as opposed to being a listed as a “suspect carcinogen.” In January 1973, the Oil, Chemical, and Atomic Workers (OCAW) union and the Health Research Group (HRG) petitioned OSHA for an emergency temporary standard to prevent workers’ exposure to numerous carcinogens. OSHA responded to the petition on May 3, 1973, by issuing an emergency temporary “work practice standard;”

One of the substances OSHA planned to address with its carcinogens regulation was MOCA. The primary scientific evidence on which OSHA relied to justify its proposed action came from studies using laboratory animals. According to the American Journal of Public Health (2005, vol. 95,S1) the PMA’s opposition to OSHA’s rule for this substance was fierce, asserting that OSHA’s decision to rely on data from animal studies was “illogical.” Arvid “Bud” Sather as legal counsel, Dr. Jay Meili and Tom Davis led the defense of MOCA from OSHA administrative claims up through the 3rd Circuit Court of Appeals. The PMA asserted that “no epidemiological or clinical evidence exists to even hint at carcinogenicity in humans even though studies have been undertaken covering in excess of 18 years of human exposure to MOCA at the DuPont Company.” The federal court held for PMA’s position that a temporary emergency standard based on work practices and with no supporting numerical toxicity human data was not enforceable. OSHA tried again from 1983 to 1985 to use the “general duty clause” against three separate processor members as a basis to ban MOCA which was again defeated in the courts. OSHA’s proposed MOCA standard was never promulgated.

1976 Tom Klingner developed a urinalysis test to be used to monitor worker exposure to MOCA. To this day it is the gold standard.

1978 PMA worked closely with California OSHA to develop a practical, performance-based urine standard. In 1984 England’s Health and Safety Executive used the same approach in developing their standard.

1983 EPA proposed an Advanced Notice of Proposed Rulemaking for MOCA under the Toxic Substances Control Act. PMA worked closely with EPA scientists and regulators and regulatory action was not taken.

1999 featured the publication of the iconic “MOCA Safe Use Guidance for the Castable Polyurethane Industry” by Don Gallo, it was revised in 2005 and 2010, and will be again soon.

2002 PMA subsidized a study by the British Rubber Manufacturers Association into health outcomes of MOCA processor workers. This study, published in 2009 in the Journal of Occupational Medicine, did not show a significant relationship between MOCA use and bladder cancer.

2005 PMA formed the MOCA Consortium to sponsor MOCA in the EPA’s HPV (High Production Volume) challenge program. Over 20 companies joined. PMA members subsidized the HPV consortium and extensive toxicity data was developed and submitted to the EPA.

2013 the OECD (comprising 34 countries) met to develop an international hazard analysis of MOCA. This would influence regulations around the globe. With little time, PMA was able to send representatives to the meeting and submit not only the extensive documentation we had but that of the BRPPA (British Rubber and Polyurethane Products Association). This helped develop a working relationship with the ACC.

2014 A study of the feasibility of commissioning a Human Relevancy Framework study on MOCA took center stage. This study examined the scientific literature on the health effects of MOCA and identified data gaps as related to the reasonableness of IARC’s classification of MOCA as a carcinogen. It also determined what additional studies would be needed to determine if the mode of action of MOCA as seen in animal models would apply to humans as was assumed by IARC.

2016 The results of testing done by PMA member firms on the amount of residual MOCA left in cast parts was released in 2016 after a many year effort. This data has been crucial in forming PMA’s guidance to members in all sorts of regulatory situations such as European Union’s REACH.

The Advocacy Subcommittee’s current Emission and Extraction study is the next step and will provide critical data that will address many current and future regulatory situations including California Prop. 65, EPA’s TSCA risk analysis, and EPA’s current focus on Environmental Justice and neighborhood exposures to chemical emissions.

2019 marked the completion of training materials concerning the safe use of MOCA. Plant level and supervisor level presentations along with a slick training poster formed a complete set for member’s use.

NOW the EHS committee is reviewing hundreds of documents related to MOCA to form a dossier to submit to the EPA when they perform a TSCA risk analysis on MOCA. Our input to the analysis is one of the most important activities taken since the early days of the PMA.

NOW SO MUCH MORE

1996 PMA conducted Source Stack Testing for MOCA, MDI and 2,4 and 2,6 TDI at four hot cast polyurethane manufacturing facilities pursuant to U.S. EPA guidelines, to develop air emissions factors which have been used by many processors in air permitting and will be helpful in addressing Environmental Justice issues in the future.

1997 The Regulatory Compliance Self-Certification program is born with 18 companies joining Level I-Commitment. Level II-Compliance would shortly be added.

1990 Bud Sather retires and Don Gallo Esq. comes aboard. His knowledge, experience, leadership, and passion for serving the PMA has left a mark on every EHS activity PMA has engaged in over the last 30 years and continues stronger than ever today.

1990^s were the decade of large binders. The PMA Model Safety and Health Program gave processors a detailed path to creating their own S&H program. Many members credited their use of the program with having positive outcomes to compliance inspections by OSHA and others.

1997 Environmental Compliance Reference Manual's several hundred pages gave processors detailed yet user friendly instructions on hazardous waste management and the variety of reporting requirements for activities involving various classes of toxic chemicals.

1998 saw the issuance of the ISO-14001 Environmental Management System manual and template. This guided the user through the process of creating their own compliant EMS system.

2000 1,4 butanediol came under intense regulatory scrutiny and the PMA was active along with the ACC in monitoring the situation, educating members and advocating industry's needs.

2008 saw the European Union's REACH program wash ashore and provoke much concern from membership. A many years' long effort by the EHS committee commenced, first determining then explaining the requirements and effects on members of the abstruse regulations, then trying to influence REACH's decision concerning MOCA's authorization. This effort is ongoing, as REACH has become a permanent fixture and a huge influence in the chemical regulations world.

2009 Dr. Ted Hogan (PMA IHS consultant) published a study of "MBOCA Handling Practices of PMA Members" which greatly influenced ongoing PMA EHS activities.

In the same year PMA submitted comments to the ACGIH opposing proposed changes to the occupational exposure values for TDI.

2012 had two notable events, the PMA reached 100 members, and they were treated to the publication of Dr. Hogan's "Working Safely with Isocyanates and MOCA in Polyurethane Casting Shops." As the model program before it, following the program led to positive inspection outcomes for members.

'13-16 OSHA had an NEP (National Emphasis Program) on Occupational Exposure to Isocyanates. PMA quickly reacted with information to membership as to what to expect and how to be prepared. A PMA member, a Self-Certification Program participant by the way, was inspected. The OSHA inspector asked for a stack of records and expressed surprise when they were all quickly supplied.

2016 PMA released "Guidance to Meeting OSHA's MDA Standard" by Mike Kocak.

2017 At the Annual Meeting the Advocacy Subcommittee of the EHS committee was created. It was formed to promote PMA's positions to organizations that influence the regulation of chemicals critical to PMA members and to demonstrate that PMA's membership is already acting in a safe and responsible manner.

NOW a training program for PMA members to demonstrate the safe use of isocyanates, in the style of the existing MOCA program, is under development.

**PMA IS TRULY AN ORGANIZATION FOCUSED ON
ADVANCING THE TECHNOLOGY AND INDUSTRY OF
CAST URETHANES.**

— Aaron Miller
Anderson Development Company



EDUCATION & TRAINING

Since the Association's first meetings, semi-annual Technical Paper Sessions have provided an important industry opportunity to showcase technical developments to industry leaders. The ever-popular Technical Papers are now presented annually, along with Technical Posters, both of which are voted upon at the Annual Meeting by fellow PMA members to acknowledge the most innovative, inventive and informative information shared among member companies. The library of these papers available to members on the website has grown to over 350 and provides a diverse array of topics that focus on emerging technologies, materials and processes.

PMA's Processing Techniques Seminars (PTS) offer member and non-member participants timely, hands-on information on specific topics in urethane processing through a series of mini-classes over the span of two days. Regular and advanced seminars offer attendees the opportunity to update basic knowledge, acquire the latest techniques and problem-solve.

Found to be especially valuable by members in the time between Annual Meetings and these PTS Sessions, webinars have also been introduced and other training methods are regularly considered.

The PMA has also developed many additional resources for members throughout the years including:

- ◆ Safety Data Sheet templates for cast urethane
- ◆ MOCA Safety poster
- ◆ MOCA Safe Use Guidance documentation
- ◆ Plant Employee training material
- ◆ Advanced Plant Employee training for Supervisors/Managers
- ◆ Working Safely with Isocyanates Guidance
- ◆ Guidance on Meeting OSHA's MDA Standard
- ◆ OSHA Flammable Storage training materials
- ◆ ASTM Testing Standards compilation
- ◆ Emission and Extraction study
- ◆ Numerous legal, regulatory and EHS articles

These materials are all shared freely among members to ensure that the most relevant, up-to-date industry information is easily available from the PMA at all times.

**THE PMA FOCUS ON KNOWLEDGE DEVELOPMENT
BUILDS A BRIDGE TO THE FUTURE OF THE CAST
URETHANE INDUSTRY.**

— *Scott Archibald*
Coim USA Inc

COMMUNITY

Beyond all the education and technical information sharing among members, nothing has ever been rated more valuable to PMA than the opportunity to network and collaborate with fellow members.

**WE HAVE LONG APPRECIATED THE
ABILITY TO PARTNER WITH FELLOW
PMA MEMBERS TO ADDRESS THE MOST
PRESSING ISSUES OF OUR INDUSTRY
AND FOSTER THE SUSTAINABLE
GROWTH OF URETHANE ELASTOMERS**

**WE LOOK FORWARD TO THIS
CONTINUED COLLABORATION
FOR THE NEXT 50 YEARS!**

— *Arthur Chiu*
LANXESS

GROUP BUYING DISCOUNT

PMA leaders are committed to continuing to offer members a variety of new benefits, as they become available. In the fall of 2000, PMA began offering members the advantages of on-line service that efficiently compared costs for certain shipping types, in the mid 2000's PMA had partnered with MSC for OEM purchases, and today aligns itself with the well-known MRO provider, Grainger. Over twenty years of providing these types of programs PMA members have saved hundreds of thousands of dollars!

AWARDS

In recent years the PMA has reinvigorated its awards program, honoring and acknowledging the contributions made by esteemed leaders in the industry.



LIFETIME ACHIEVEMENT

This is PMA's highest award. Winners are esteemed individuals who throughout their careers have made extraordinary contributions to the success and stature of PMA or the polyurethane elastomers industry.

- 2019** **RONALD FUEST** StateMix Ltd
- 2017** **DON BARGE** Griffith Polymers Inc
- BILL BROWN** Millennium Elastomers
- JERRY BRYCE** Coim USA Inc
- NAUREEN STONE** LANXESS
- 2016** **HOWARD COX** Anderson Development Company
- CHUCK DEMAREST** Cerulean Industries
- DICK PALINKAS** Coim USA Inc
- WALT SMITH** ITWC
- 2006** **DR. JAY MEILI** Molded Dimensions
- 2001** **RICHARD J GALLAGHER SR** Gallagher Corporation

PRIOR TO 2000

- DAN STONE**
- BOB WHITE**
- IAN MACKENZIE**
- PAUL HARKER**
- PETER WRIGHT**
- DOUG RODENBURG**
- RODGER DAVIS**



DISTINGUISHED SERVICE

The Distinguished Service Award is awarded to a member of PMA who has unselfishly given his or her time and resources for the benefit of Polyurethane Manufacturers Association.

- 2019** **JAMIE SCHMIDT** U.S.A. Drives Inc
- 2018** **DAVID WELCH** Everchem Specialty Chemicals
- VINCENT GAJEWSKI** Coim USA Inc
- 2016** **ANDY CLOCK** ADC Solutions LLC

PRIOR TO 2000

- ROBERT GLEASON** American Cyanamid Company
- DR. JAY E. MEILI** Molded Dimensions, Inc
- ARVID "BUD" SATHER** Michael Best & Friedrich
- LOU SAUER** Dynasauer Corporation
- ERIC SHEARD** Lescon, Inc
- GEORGE KILBRIDE** Mandrels Incorporated
- MS. MICHAEL MCMILLIN** Dow Chemical (USA)
- HOWARD A SMITH** Condux
- ROBERT SMITH** Thombert, Inc
- RICHARD J GALLAGHER, SR** Gallagher Corporation
- THOMAS R DAVIS** Palmer Davis Seika, Inc



ORGANIZATION & LEADERSHIP

Like any organization, PMA derives its vitality from the strength, dedication and talent of its members. Elected Officers and a Board of Directors provide continuity and leadership on matters affecting the association. The Association's Divisions have morphed into Processor and Supplier, Co-Chair led Committees: Environmental, Health & Safety (EHS); Membership Growth; Membership Services and Technical. They provide the means to address specific problems and opportunities and recommend actions through new programs and projects.

In 1999 the Association adopted a new strategic plan to target the Association's efforts in meeting its mission - to promote the polyurethane elastomer industry and drive the growth of its member companies. As part of this plan, PMA identified three key goals: Promote the polyurethane elastomer industry; Enhance the value of PMA membership; and grow member's profitability. That plan has been revisited and overhauled five additional times since then, most recently in 2019 when the PMA adopted its current Association Priorities:

PMA Officers, Board Members, Committee Co-Chairs and all other workgroup leaders work tirelessly to develop and drive Association programs that meet these goals. In an effort to make Association programming more valuable and accessible to all members, PMA constantly evolves to provide valuable content at the Annual Meeting and throughout the year to provide members with engaging, interactive sessions, technical paper presentations, posters and failed part competitions, roundtable breakout discussion sessions and now offers the Supplier Showcase opportunity annually.

In 2012 the PMA formed a merger with the Canadian Urethane Manufacturers Association (CUMA), which provided both organizations the benefit of becoming a truly international organization. With nearly 20% of members headquartered outside the United States, all members benefit from a wider global perspective on the urethane market.

The PMA has relationships with the ACC and other Government and NGO entities including EPA, TSCA office and Smart Sectors Program Homeland Security – Chemical facility anti-terrorism.

**A VISION OF THE FUTURE AND A
STRATEGIC PLAN TO ACHIEVE ARE
KEY TO OUR CONTINUED SUCCESS.**

— *Gilbert Ellerbe*
Stepan Company



2019 STRATEGIC PLAN ASSOCIATION PRIORITIES



Safe Handling

Increase industry participation rate in chemical safe handling programs. Continue the focus on safe use and develop more materials on safe use.

Grow

Membership growth and increased participation through improved retention, reactivation of past members, and recruiting of new members. An emphasis on significantly increasing the number of processors who are members and increasing their participation.

Provide

Ensure that our conferences, events, and publications are helping our members effectively address the issues that are of greatest concern to them. Also ensure that our members are kept up to date with the latest innovations in the industry and related to the industry.

Educate

Develop more training programs and programs for a wider audience. Consider regional in-person events on wide range of topics. Connect with and be relevant to a broader slice of member's employees - younger employees, and those from specific disciplines (EHS, quality, operations, IT, etc.) Develop additional training programs that our members can use to get their new hires up to speed, safe and productive as quickly as possible.

Optimize

Web and Social Media Strategy. We need to be more effective in our use of our website, social media, and electronic communications in communicating with members, potential members and other stakeholders.

Regulations

Continue to keep members informed of pending regulatory changes and influence those changes for the benefit of the industry.

HEALTH & SAFETY

In the 1990s, PMA extended its focus to Safety and Health in the workplace and to the development of marketing initiatives designed to educate manufacturing and design engineers on the unique advantages of the polyurethane process. PMA continually responds to the needs of the industry by monitoring governmental activity and educating the membership about critical regulatory initiatives affecting the industry, and the criticality of compliance with leading-edge health and safety measures.

PMA's continuing relationship with appropriate consultants like Legal Counsel, Donald P. Gallo, Esq., offers every Association member easy, affordable access to expert assistance. By agreement, all members have limited free consultation annually, as well as the option to receive additional consultation at a reasonable cost.

PMA'S SELF-CERTIFICATION PROGRAM DELIVERS ON ITS GOALS OF PROMOTING WORKER SAFETY AND PROTECTING THE ENVIRONMENT WHILE ALSO LOWERING COSTS BY REDUCING ACCIDENTS, ILLNESS AND INJURIES. LEGAL LIABILITY TO GOVERNMENT ENTITIES AND TO THIRD PARTIES IS REDUCED, AND THE SELF-POLICING NATURE OF THE PROGRAM IS LOOKED UPON VERY POSITIVELY BY REGULATORS AND BY CUSTOMERS.

—Mike Kocak
C.U.E., Inc

PMA'S FOCUS ON HEALTH & SAFETY KEEPS US AHEAD OF GOVERNMENT REGULATIONS, INSTEAD OF BEHIND.

—Richard Manson
PSI Urethanes Inc

PMA's Self-Certification Program is an important part of the Association's commitment to member companies and the industry in demonstrating a proactive approach to addressing health, safety and environmental issues. The program is a four-tiered model with an additional Safe, Compliant and Verified level.

SAFE, COMPLIANT & VERIFIED



Safe

Regarding employee health, emissions from the facility to the neighboring properties and to the environmental standards based on current generally known and accepted air pathway, direct contact pathway standards including OSHA and USEPA standards and PMA Safe Use Guidance program documents including safe use practices and employee and facility monitoring programs.

Compliant

Meaning substantially compliant with all environmental laws including state and federal regulations, at the time of verification and annual internal audit. The goal is to be substantially compliant all the time; however, recognizing non-compliance excursions less than one percent of the operating time.

Verification

Means third party review of facility practices, records and documentation of compliance with all environmental, health and safety laws including state and federal regulations and with the PMA's safe use guidance documents as periodically updated.



SELF-CERTIFICATION LEVELS

As of June 30, 2021

LEVEL I COMMITMENT

Acrotech Inc
Apache Pipeline Products
Cent Roll Products Inc
DMB Technology, LLC
Dynasauer Corp
Ephrata Precision Parts Inc
Fimor North America
Jewell Hudgens Inc
Mahr Metering Systems Corporation
Millennium Elastomers
Pipeline Pigging
Polyurethane Specialties Co Inc
Prothane
Redwood Plastics and Rubber
Seco Machine
StateMix Ltd
STOCKMEIER Urethanes USA Inc
Townley Engineering & Manufacturing
UW-Elast AB

LEVEL II COMPLIANT

Chemi-Flex
DYNATECT RO-LAB INC
Era Polymers Corporation LLC
Fenner Precision Polymers*
Flexco
Globe Composite Solutions*
Green Rubber-Kennedy Ag
HiTEK Urethane Global*
Meggitt Polymers & Composites*
PETCO Inc
Polymer Components
REPI S.r.l.
Rexnord Industries
Stellana US
Stepan Company*
The Hanson Group dba Aragon Elastomers
Vail Rubber Works*

LEVEL III LEADERSHIP

BASF Corp.
Chemline, Inc
Coim USA Inc
Covestro, LLC
Gallagher Corporation*
Gantrade Corp*
LANXESS
Michelin North America
Superior Tire & Rubber Corporation*
U.S.A. Drives Inc*

LEVEL IV MENTORING

Anderson Development Co*
C.U.E. Inc*
Crosslink Technology Inc
Everchem Specialty Chemicals
Kastalon Inc*
Molded Dimensions LLC*
Omni Technologies Inc*
PSI Urethanes Inc*
Thombert Inc*
Thomson Gordon Group Inc

*Level II Verified Safe & Compliant

PAST PRESIDENTS

The PMA would not be what it is today without the tremendous contributions from these Past Presidents who have led the Association through the past 50 years:

2019-2021	GILBERT ELLERBE Stepan Company	1991-1992	RUSSEL HALKERSTON Molded Dimensions, Inc
2017-2019	LINDA KATZ Molded Dimensions, Inc	1990-1991	THOMAS DAVIS Palmer Davis Selka, Inc
2015-2017	PHIL GREEN Anderson Development Company	1989-1990	DONALD BARGE Griffith Polymers, Inc
2013-2015	MIKE KOCAK C.U.E. Inc	1988-1989	HENRY LEMEUR Superior Tire & Rubber Corporation
2011-2013	PAYAM TOWFIGH State Mix, Inc	1987-1988	RICHARD DAVIDSON Thombert, Inc
2010-2011	MIKE KATZ Molded Dimensions, Inc	1986-1987	RICHARD GALLAGHER, SR. Gallagher Corporation
2008-2009	NICK BITTER Parkway Products, Inc	1985-1986	DONALD WILLIG Parkway Products, Inc
2006-2008	COREY BARGE Axiom Industries	1984-1985	GEORGE DEMORE Ohio Rubber Company
2003-2006	KEN NEAL Dicar, Inc	1983-1984	EDWIN NAZAR Nazar Rubber Company
2002-2003	DON CULBERTSON Omni Technologies	1982-1983	ERIC SHEARD Lescon, Inc
2001-2002	CHUCK DEMAREST Aragon Elastomers	1981-1982	WALT SMITH Thombert, Inc
2000-2001	JAMIE SCHMIDT U.S.A. Drives	1980-1981	JOHN DUVAIL Entech, Inc
1999-2000	NAUREEN STONE Uniroyal Chemical	1979-1980	GENE HUBER SWECO, Inc
1998-1999	CARL SERMAN C.U.E. Inc	1978-1979	WILLIAM STAHR Dayton Coatings & Chemicals
1997-1998	RICHARD MANSON PSI Urethanes, Inc	1977-1978	GEORGE KILBRIDE Mandrels, Inc
1996-1997	JOE BROTHERS Gates Rubber Company	1976-1977	ALAN KIRKPATRICK Dicar, Inc
1995-1996	MICHAEL STEINMETZ Steinmetz Polymers	1975-1976	DR. JAY MEILI Molded Dimensions, Inc
1994-1995	WILLIAM LEMEUR Superior Tire & Rubber Corporation	1974-1975	ROBERT STONER Winfield Industries
1993-1994	GARY WILLIG Parkway Products, Inc	1973-1974	ROBERT SMITH Thombert, Inc
1992-1993	RICHARD GALLAGHER, JR. Gallagher Corporation	1972-1973	HAROLD WALLS McCreary Industrial Products

50-YEAR HISTORY

Fifty years after its inception, the Polyurethane Manufacturers Association remains dynamic, innovative and growing, standing at triple the size of the Association in its inaugural year. PMA members are industry leaders benefiting from the Association's education, regulatory stewardship, leading-edge technology and communication solutions to the issues in cast urethane industry, and - perhaps most importantly - the collaborative energy of its member companies to constantly strive towards upholding the mission and achieving the goals of the PMA.



MISSION

PMA adds value to the cast polyurethane industry by providing a forum for sharing best business practices and technical innovations and promoting sustainability by advocating for the safe and responsible use and accessibility of the chemicals in our industry.

GOALS

Promote polyurethane elastomer industry.

Enhance value of PMA membership.

Grow PMA member's profitability.

IF THERE WERE A MANUAL ABOUT "HOW TO RUN A SUCCESSFUL POLYURETHANE MOLDING BUSINESS" IT WOULD BE WRITTEN AT PMA. MANY OF OUR INDUSTRIES IMPORTANT ACHIEVEMENTS AND MILESTONES HAVE BEEN ACCOMPLISHED BY PMA MEMBERS. AND THEIR WILLINGNESS TO SHARE SUCCESSES, FAILURES, AND SOLUTIONS HAVE MADE MEMBERSHIP AND ATTENDANCE AT ANNUAL PMA MEETINGS MY MOST IMPORTANT RESOURCE, FOR FIFTY YEARS.

IT HAS BEEN MY PRIVILEGE AND HONOR TO KNOW SO MANY OF OUR INDUSTRIES' LEADERS OVER THIS LONG HISTORY AND MY GRATITUDE GOES TO SO MANY OTHERS WHO HAVE WALKED THE PATH I FOLLOWED AND HELPED LEAD ME ALONG THE WAY.

*—Walt Smith
PMA Historian
Thombert, Inc (retired)*



PMA Polyurethane
Manufacturers
Association

Our strengths. Your gains.