

Society of Plastics Engineers Medical Plastics Division Newsletter 2021Q2



GREETINGS FROM THE CHAIR



Fellow Medical Plastics Division Members: Hope you and your family are safe and taking precautions against an ongoing COVID-19 surge.

Elections were conducted in May to elect Medical Plastics Division (MPD) Councilor and Board of Directors for term ending in 2024.

Ned E LeMaster was elected as the division councilor while Margie Hanna, Amin Sedighiamiri, Vijay Kudchadkar, Rob Klein, Kumin Yang, Kyle Kulwicki, and Selvaanish Selvam are our elected Board of Directors.

Please join me in welcoming them!

I would also like to thank Vipul Davé for conducting the election and getting to the finish line.

Over the last two months, MPD has been involved in planning and organizing a number of events.

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In our Virtual Technical Forum and Networking event series, Jeff Ellis, a senior technical leader at EWI presented a talk on "Developing Cost Effective and Reliable Plastic Medical Products" on June 2 and Nilesh Billade from Stress Engineering Services Inc. presented a talk on "Computational Modeling for Medical Device Regulatory Submissions per ASME V&V40" on July 7.

A one-day Medical Plastics Virtual Symposium was organized on June 10 with key focus on Medical Plastics, Material Formulation, Novel Device Design, Implantables, Modeling, Surface-Modified Materials, 3D Printing and Bioresorbable polymers. I would like to thank symposium organizing committee for their hard work and commitment to make this event a success.

Medical Plastics Division teamed up with Informa Markets to organize one-day MiniTec conference "Medical Plastics to Help Save the World" on August 10, 2021 at Anaheim Convention Center in Anaheim. It was great to see everyone in-person. The conference was held in conjunction with MD&M West with podium and poster presentation and panel discussion on sustainability. I would like to thank Len Czuba and Ned LeMaster for their leadership in organizing this event. I would also like to thank our sponsors for their support.

Finally, I would like to acknowledge Celanese, Avient, Evonik and many more for supporting Medical Plastics Division.

I look forward for your feedback and recommendations. Cheers

Ali

Are you interested in volunteering for the BOD? Please email Ali Ashter ashter2000@gmail.com

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NEWSLETTER EDITOR

GREETINGS FROM THE NEWSLETTER EDITOR



Greetings fellow Medical Plastics Division Members! Welcome to the latest edition of our award winning newsletter! I appreciate your efforts to help me improve this communication tool; please send feedback my way:

vijay.kudchadkar@westfall-technik.com

In this newsletter we are honoring our Emeritus member – **Glenn Beall** who has made significant contributions to the medical plastics industry. Please take a moment to read about his achievements and contributions to the plastics industry. On behalf of the MPD, we would like to thank Glenn for the contributions and continued support.

Plastics play an important role in our lives. In this newsletter, we are featuring stories and articles about efforts to reduce the environmental impact of medical plastics and to make medical plastics manufacturing more sustainable.

Our 2021 Minitec in Anaheim was a big success. It was nice to meet people in-person again. The presentations and posters were excellent. I have included photos from our Minitec in this newsletter.

Best regards,

Vijay Kudchadkar

Do you have questions about MPD Membership?

Please email Ravi Ayyar rayyar@lilly.com

Newsletter Suggestions? Interested in Sponsorship?

Please email:

Vijay Kudchadkar Vijay.Kudchadkar@westfall-technik.com Selvaanish Selvam Selvaanish.Selvam@avient.com

MPD Emeritus Board Members

Glenn Beall – the first Emeritus Member of the Medical Plastics Division Board of Directors of SPE



In the spring of 2020, the MPD Board of Directors adopted an updated set of ByLaws for our division. One of the newly added sections was to establish the recognition of Emeritus Board Members that will allow experienced, long-standing members of the MPD and our board to continue to contribute beyond their elected terms of service.

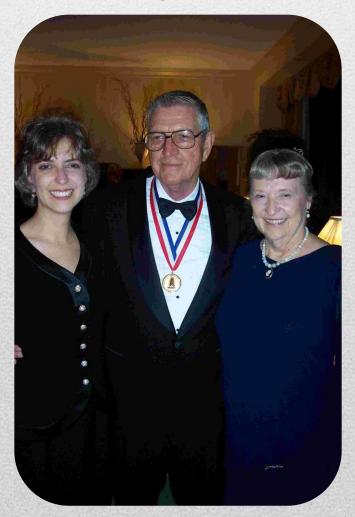
Shortly after the adoption of these ByLaws, Glenn Beall was nominated and overwhelmingly approved for this distinction. We decided to write a little about Glenn and his background so that you, the reader can get an appreciation of the amazing contributions that have been made to our industry by this very talented and humble person.

Glenn Beall earned his Bachelor of Science degree in engineering from **Bradley University** and then began his career at **General Electric** where he spent a year developing plastic parts for equipment to test heavy electrical switches. When an opportunity opened for him at **Abbott's** Research Division in North Chicago, Glenn changed jobs and began working with a design team to help transition from reusable medical devices to disposable plastic devices avoiding the cost and complications associated with reusables. He enjoyed his role at Abbott where in the 10 years he was there from 1958-68 he developed many new products which resulted in him earning 12 of his impressive **35 patents.**

MPD Emeritus Board Members

Glenn joined **SPE** in May of 1960 and almost immediately became involved with the local **Chicago Section** as newsletter editor in 1962 which he held for 2 years. He was active on the board as secretary in 1965 and became Section president in 1967. He then continued to serve on various conference committees and still participates in the section leadership.

Before continuing, we need to step back and bring into this review of Glenn Beall's life and contribution to our industry, Glenn's wife **Patsy Jo Wheeler Beall** who was his high school sweetheart. **Patsy and Glenn were married in 1953**. Glenn credits Patsy with helping support him through his college years. But that was only the start. When Glenn went to Abbott, Patsy also got a job there as well. During these years they worked on and were involved with many after-work related activities such as SPE volunteering. More on this later.



In 1968, Glenn (and Patsy) both left Abbott and started Glenn Beall Engineering Inc. specializing in designing products and making prototypes. Glenn focused on plastics and although he had gained much hands-on experience at Abbott in their mold shop with extruders and molding machines, Glenn continued to learn as much as he could about the plastics industry and how the various technologies available could help make useable products beyond medical devices. Throughout these years, Glenn never stopped learning and sharing his expertise. While serving the need for plastic design and prototype parts at GBE, Glenn also served as a consultant and instructor both for corporations and universities. During this time, he was a frequent contributor of articles on plastic part design, writing books and presenting technical presentations at conferences such as ANTEC and other SPE conference venues.

In 1972, Glenn taught his first seminar which was a joint effort with a fellow Chicago SPE section colleague, Dr. Larry Broutman. Broutman (SPE President 1977–1978) was asked to help a company train their engineers on plastics by giving an in-house seminar. Dr. Broutman taught about the plastic materials used and why. He asked Glenn to cover injection molding and processing, which also touched on design. Other similar opportunities gave Glenn a chance to continue teaching seminars both with Broutman but also on his own. This led to SPE inviting Glenn to join its list of seminar instructors and teach seminars at SPE events such as ANTEC. This gave Glenn the opportunity to continue his teaching and to expand his ability to help train new engineers in the industry. To date, although he retired from teaching seminars in 2008, while actively teaching, Glenn Beall taught more than 770 seminars to nearly 30,000 attendees/students! He also published more than 50 technical papers and articles, wrote or co-authored 4 technical reference books and contributed a monthly technical article on **Design in Plastics Today** magazine. More than 80 contributions appeared during his almost 15 year affiliation with the magazine.

MPD Emeritus Board Members

Glenn was one of the founding members of the **Medical Plastics Division** and served on the board starting in 1981. He was the division Secretary in 1982 and served as Newsletter Editor from 1982-1985. Glenn Beall served as the Chairman of the Division in 1984 & 1985 and was selected as MPD's Most Valuable Division Member in 1984, 1985 & 1986. He was awarded the Outstanding Contribution Award in 1994 for his on-going support of so many division activities. Glenn continued to serve on the board, frequently giving conference presentations and attending meetings as often as his schedule allowed.

In 1993, Glenn, with the complete support of Patsy decided to sell GBE to their long-time business partner, Robert Giles allowing Glenn to focus on consulting and teaching seminars working under the name of **Glenn Beall Plastics, Ltd.** During this time of growth of both the plastics industry and especially plastics in medical devices, Glenn joined other organizations which allowed him to expand his network and contribute to other areas of the industry.



Among other organizations, Glenn joined SPI (now called Plastics) in 1969 and was active throughout the '70s & '80s serving the **Midwest Section** in several board positions:

Conference Program Committee: 1971 Chicago Chapter Steering Committee: 1972 Chairman, Midwest Conference Program: 1973 Board of Directors: 1974-1986 Section Treasurer: 1976 Recipient of Founders Award: 1977 Speaker, Midwest Conference, Lake Geneva, WI (#64): 1978 Speaker, Midwest Processors Meeting, Chicago, IL (#59): 1978 Vice Chairman, Board of Directors: 1980-1982 Chairman, Board of Directors: 1982-1984 Member of Illinois Chapter Steering Committee: 1982-1991 Speaker, Midwest Conference, Lake Geneva, WI (#321): 1986

In addition to the local section of SPI, Glenn contributed to the **National SPI activities** as follows:

Products Liability Political Action Committee: 1978-1981 Speaker, Products Liability Conference, Hasbrouck Heights, NJ (#63): 1978 Speaker, Molders Conference, Scottsdale, AZ (#73): 1979 Speaker, Products Liability Conference, Los Angeles, CA (#76): 1979 Speaker, Products Liability Conference, Houston, TX (#78): 1979 National Plastics Exposition Program Committee: 1981-1982 Speaker, National Plastics Exposition, Chicago, IL (#184): 1982 Plastics Committee on Medical Products: 1980-1989 Chairman of SPE Liaison Committee: 1980-1989 Chairman of Public Relations Committee: 1981-1983 Chairman of Executive Committee: 1983-1984 SPI/SPE Medical Division Liaison to National Plastics Museum: 1985-2007 National Board of Directors: 1982-1984 National Membership Committee: 1982-1984 National Processors Committee: 1982-1984 Speaker, Plast-Ex '83, Toronto, Canada (#176): 1983 Speaker, Mold Making Division Conference, Scottsdale, AZ (#324): 1985 Speaker, Mold Making Division Conference, Newark, NJ (#392): 1986 Judge, Structural Plastics Design Competition, San Diego, CA: 1989 Speaker, Automotive Market Council, Detroit, MI (#543): 1991 Speaker, Mold Makers Division, Newark, NJ (#633): 1992 Speaker, National Plastics Exposition, Chicago, IL (#663): 1994

Glenn was nominated and then elected to the **Plastics Pioneers Association** in 1983 and served in several leadership positions in that organization as shown below:

> Elected Member of Plastics Pioneers Association: 1983 Chairman, Archives & Artifacts Committee: 1991 to 1995, 2006 to Present Elected to Board of Governors: 1995-1999 Awarded Much Traveled Shirt: 2000 Chairman, History Club: 2002 to Present Southeastern Member of the Year Award: 2003 Distinguished Service Member: 2013

Glenn also participated in other technical societies, trade associations and industry activities:

American Engineering Model Society: Joined 1972-1979

American Society of Mechanical Engineers: Joined 1973 to Present

Association of Rotational Molders: Joined 1980

Member, Education Committee: 1980 to Present Chairman, Design Manual Committee: 1981-1983 Workshop Director (#185): 1981 Conference Paper (#191): 1982 ANTEC Paper (#189): 1983 Member, Rotational Molding Development Center Committee: 1984-1991 Chairman, Seminar Committee: 1984-1998 "Introduction to Rotational Molding" Seminar Speaker: 1985-2003 Presented in USA, Canada, Germany, England & Spain "Advances in Rotational Molding" Seminar Speaker: 1995 to 1999 **Outstanding Contribution Award: 1985** Conference Paper (#487): 1988 Conference Paper (#530): 1989 Elected Director of Technical Services: 1991 to 1998 Conference Paper (#609): 1993 Conference Paper (#668): 1995 Inducted into Rotational Molding Hall of Fame: 1998 Seminar Instructor: 1979-1990 Member, Plastics Historical Society: 1987 to Present

American Mold Builders Association: Joined 1981-1993 Speaker, Product Liability (#346): 1985 Speaker, Product Liability (#438): 1985 Newsletter Contributing Editor: 1987-1993 Speaker, Interface (#706): 1995

American Design Drafting Association: Joined 1993-1994 British Plastics Consultancy Network: Joined 1994 – 2005 Named to U.K. Worshipful Company of Horners: 2002 Awarded Freedom of the City of London: 2002 Packaging Institute: Joined 1975-1987 Society of Manufacturing Engineers: Senior Member, Joined 1978 Seminar Instructor: 1976 to 1984 Plastics Academy: 1988 to Present Mold Maker Industry Achievement Award: 1994

American Society of Materials International: 1986-1988 Industrial Design Society of America: Joined 2001 to Present

During all the "free-time" that Glenn and Patsy enjoyed, Glenn also participated in various **other professional activities**:

Judge, Packaging Institute's Design Competition: 1976 Judge, Bachner Award Design Competition: 1976, 1979, 1985 Milwaukee School of Engineering, Advisory Board: 1977-1983 Judge, SPE Design Competition: 1979, 1980 Trustee, National Plastics Center and Museum: 1983-1989 National Plastics Center and Museum Liaison to SPE Medical Plastics Division and SPI Medical Products Division: 1985-1992 Trustee, SPE Plastics Education Foundation: 1984-1986 Judge, SPI Structural Plastics Design Competition: 1989 Co-Chairman, Plastics Product Designers' Forum Conferences: 1990-1995 Judge, Montel International Design Competition: 1988

Glenn taught various Plastics Technology seminars; served in various editorial activities; and wrote numerous journal and magazine articles.

Plastics Technology Seminars

Elgin Community College, Elgin, IL Morrisville Technical College, Morrisville, NY New York University North Carolina State University at Raleigh, NC Pittsburg State University, Pittsburg, KS University of California, Los Angeles, CA University of Minnesota University of Wisconsin Pennsylvania College of Technology **Borg-Warner Chemical** Dow Chemicals U.S.A. E. I. Du Pont de Nemours & Co. M. A. Hanna Company **Hoechst Celanese Corporation** General Electric Company **General Polymers** Monsanto

Editorial Activities:

Technical Volumes Committee, Society of Plastics Engineers: 1976-1980 Editorial Advisory Board, Plastics Design & Processing: 1980-1981 Design Editor, Plastics Design Forum: 1981-1995 Editorial Advisory Board of Directors for Wiley's Handbook of Plastics Materials and Technology: 1981-1990 Editorial Reviewer to Marcell Dekker on Edward Miller's Plastics Products Design Handbook: 1980-1982 (#26) Editorial Advisor for Society of Manufacturing Engineers' Tool & Manufacturing Engineers Handbook – Properties & Processing of Plastics: 1982 (#25) and Tool & Manufacturing Engineers Handbook – Plastic Part Manufacturing: 1995 (#106) Hanser Gardner Publications, Editorial Reviewer: 1987 to Present Editorial Advisory Board, Wiley's Advances in Polymer Technology: 1988-1990 Contributing Editor, Kunststoffe/German Plastics: 1989 to 1994

Publications

Plastic Design & Processing Journal: "Advantages of In-Plant Technical Education" November 1977 Plastics Technology Journal: "Preventing Liability Lawsuits": May 1978 Plastics Technology Journal: "Products Liability Concerns": September 1978 SPE ANTEC Paper: "Products Liability and the Plastics Processor": Nov. 1978 Plastics Machinery & Equipment Journal: "Portrait of a Plastics Molder": May 1979 Appliance Journal: "Equipment for Plastics Processing": June 1979 Plastics Design Forum: "Plastics Exposition Preview": May 1979 SPE RETEC Paper: "Specifying a Molded Part": September 1980 Plastics Engineering Journal: "What to Put on a Plastic Part Drawing": September 1980 Plastics Design Forum Journal: "Attention to Detail": September 1981 Paulson Training Programs, Inc.: Part Design Videotapes & Workbooks: 1982 Plastics Design Forum Journal: "NPE Review": May 1982 Plastics Design Forum Journal: "Forceps Heater" : November 1982 Association of Rotational Molders' Design Manual: Engineer's Guide to Designing Rotationally Molded Plastic Parts" February 1983 Plastics Design Forum Journal: "Timing Gear – Cam" : March 1983 Plastics Design Forum Journal: "Good Appearance Sells Products": May 1983 Plastics Design Forum Journal: "Plastic Part Designer's Quiz": Part I: September 1983 Part II: November 1983 Part III: January 1984 Medical Device & Diagnostic Industry Journal: "Using Prototypes to Minimize Product Development Time and Expenses": June 1984

Plastics Design Forum Journal: "Designing Rotationally Molded Parts": November 1984 Plastics and Rubber International Journal (British): Excerpts from London Seminar: December 1984

MPD Emeritus Board Members

Publications

Plastics Machinery & Equipment Journal: "Foreign Mold Competition": June 1985 Design Engineering Journal (British): "Plastic Part Design": June 1985 Plastics and Rubber International Journal (British): "Design Quiz": Interplas, September 1985 Plastics Design Forum Journal "Designer's Guide to Pressure Forming": September/October 1985 Borg-Warner Chemicals, Inc.: "Plastvision" editorial quarterly: August 1985 SPE RETEC Paper: "Productivity Improvements Through Prototyping": March 1985 Plastics Design Forum Journal: "Water Filter" : January/February 1986 Plastics Machinery & Equipment Journal: "Products Liability – Minimizing Risks for Mold Makers and **Designers**": February 1986 Society of Plastics Engineers ANTEC Paper: "Designer's Guide to Pressure Forming": April 1986 Plastics Design Forum Journal: "Hydraulic Valve Litigation" September/October 1986 Plastics Machinery & Equipment Journal: "Safer Mold Handling Device Available": January 1987 Plastics Design Forum Journal: "Infant Seat" January/February 1988 Society of Plastics Engineers: "A Listing of Mold Making & Mold Design Teaching Institutions": 1988 Kunststoffe/German Plastics Journal: An ongoing series of technical design articles: October 1989 "Rotational Moulding of Plastics": Contributed book chapter "Design of Rotationally Moulded Products": published 1992 by Research Studies Press Ltd. Plastics Design Forum Journal: Monthly Editorial Column entitled "InSIGHT": 1994-1995 Injection Molding Magazine (IMM), "The Dangers of Part Consolidation:" March 31, 1997 IMM, "Words of Wisdom: Automation vs. Emigration": September 3, 2002 IMM, "Words of Wisdom: Rotational Molding, Then and Now": July 5, 2004 IMM, "Technology Notebook, Rotational Molding, An Active Competitor": July 2, 2005 IMM: Series of Bimonthly Columns Entitled "By Design": June 1996–2011

Now back to Glenn Beall's **SPE activities**. He worked in areas besides Medical Plastics Division detailed below:

Chicago SPE Section Activities

Newsletter Editor: 1962-1964 Secretary: 1965 President: 1967 Chairman, Executive Advisory Committee: 1968–1970 Injection Molding RETEC Committee: 1975 Medical Plastics RETEC Committee: 1983 Product Design RETEC Committee: 1994

National SPE Activities

Seminar Instructor: 1973–2008 Vice-Chairman, ANTEC Committee: 1972 Chairman, Membership Committee: 1974 Chairman, Divisions Committee: 1975 Technical Volumes Committee: 1975 NATEC Paper No. 5: 1978 Chairman, Constitution & By-Laws Committee: 1979 SPE Design Competition Judge: 1979 & 1980 RETEC Paper No. 9: 1980 Chairman, Seminars Committee: 1980-1982 National Membership – Division Liaison Committee: 1982-1983 ANTEC Paper: 1983 Chairman, John W. Hyatt Awards Committee: 1983-1986 Trustee, Plastics Education Foundation: 1984-1986 RETEC Paper No. 345: 1985

Winner, 1985 Membership Growth Contest, Mold Making & Mold Design Division Winner, 1985 Membership Growth Contest, Medical Plastics Division ANTEC Paper No. 59: 1986

Board of Directors, Medical Plastics Division: 1981-1987

Secretary: 1982 Newsletter Editor: 1982-1985 Chairman, Medical Plastics Division: 1984 & 1985 Most Valuable Division Member Award: 1984, 1985 & 1986 Outstanding Contribution Award: 1994

Board of Directors, Mold Making & Mold Design Division: 1982–2013

Chairman, Public Interest Committee: 1982-1984 Skilled Manpower Liaison Committee: 1982-1984 Intersociety Liaison Committee: 1983-1993 I. T. Quarnstrom Foundation Board of Directors: 1985-1998 Chairman, Mold Making & Mold Design Division: 1986 Mold Maker of the Year Award: 1990

Founder Product Design & Development Division

Board of Directors, Product Design & Development Division: 1989 to Present Chairman, Product Design & Development Division: 1991–1995 Elected Emeritus Member of the Board: 1995 SPE International Product Design Awards named in honor of G. L. Beall: 1995

Founder Rotational Molding Division

Board of Directors, Rotational Molding Division: 1996 to Present Chairman, Rotational Molding Division: 1996-2000



Awards & Recognitions – Glenn Beall



During his career, Glenn was recognized by various **Technical Society & Trade Associations** for these activities with these **Awards and Special Recognitions:**

Scientific Staff Award, Abbott Laboratories: 1965 Founders Award, Society of the Plastics Industry: 1977 Valuable Contribution Award, Borg-Warner Chemicals: 1983 Outstanding Contribution Award, Association of Rotational Molders: 1983 Merit Award, Chicago Association of Technological Societies: 1984 **Recognition of Contribution**, SPE/SPI Medical Plastics Conference: 1984 President's Cup, Association of Rotational Molders: 1985 Mold Maker Industry Achievement Award, nominated by the SPI, AMBA, & SPE: 1994 Lifetime Achievement Award in Design, Injection Molding Magazine & Gabriel, Inc.: 1995 Inducted into Plastics Hall of Fame: 1997 Inducted into Rotational Molding Hall of Fame: 1998 DuPont, Gold Award Winner, Packaging Design Competition: 1998 University of Wisconsin/Milwaukee, Distinguished Service Award: 2000 Society of Manufacturing Engineers (SME), Gold Medal Award: 2000 Association of Rotational Molders, Distinguished Service Award: 2004 Admitted into Bradley University. Centurion Society: 2007 Bradley University, Distinguished Alumnus Award: 2007 Plastics Pioneers Association, Distinguished Service Member Award: 2013 Inducted Honourable Company of Horners, Master Collector and Historian: 2019

MPD Emeritus Board Members





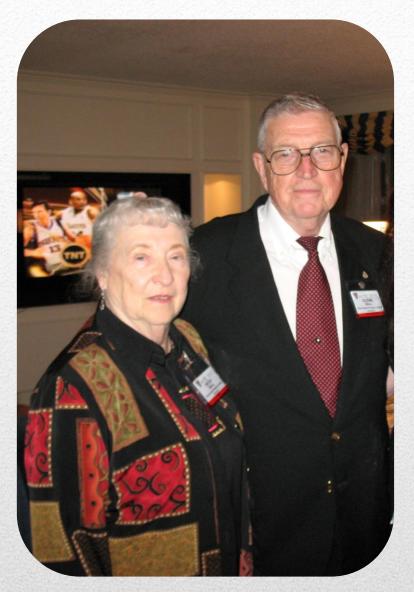
Glenn received numerous awards from the **Society of Plastics Engineers** for his contributions to the SPE and plastics Industry.

Outstanding Service Award, SPE Executive Council: 1970 President's Cup, Society of Plastics Engineers: 1983 Most Valuable Member Award, SPE Medical Plastics Division: 1984, 1985, and 1986 Mold Maker of the Year Award, SPE/Mold Making & Mold Design Division: 1990 Seminar Program Contribution Award, Society of Plastics Engineers: 1990 Elected Distinguished Member of Society of Plastics Engineers: 1990 Outstanding Achievement in Plastics Education Award, SPE: 1993 Outstanding Contribution Award, SPE Medical Plastics Division: 1994 SPE International Product Design Awards named in honor of G. L. Beall: 1995 President's Trophy for Advance of SPE, Plastics Technology: 2000 Society of Plastics Engineers, International Award: 2003 Society of Plastics Engineers, Excellence in Mentoring Award: 2014 Outstanding Achievement Award, SPE Milwaukee Section: 2019 President's Trophy for Advance of SPE, Plastics Technology: 2000 SPE's International Award: 2003 Society of Plastics Engineers, Excellence in Mentoring Award: 2014 Elected as an Emeritus Member of the Board by the Medical Plastics Division: 2020

MPD Emeritus Board Members

This list of credentials and accolades represents thousands of meetings, countless phone calls, extensive research and preparation and helping generations of plastics professionals learn about our industry. Throughout more than 60 years of Glenn's career, he excelled in his practice of his expertise and selflessly helped so many of us, me included, learn about plastics.

At the start of his career his goal was to learn everything there was to know about the plastics industry. We believe that it is safe to say that Glenn Beall has done about as much as anyone could do in one person's lifetime. Sadly on November 22, 2014, Glenn lost his best and most precious supporter, Patsy. Patsy lost her battle with cancer and left a void in Glenn's life that is still obvious to those of us that know him. Glenn also has been forced to slow down, but who can blame him! He still drops in to meetings and gatherings to reconnect with friends and colleagues. It is an honor to recognize this amazing person that has given so much to his industry and our profession. The next time you see Glenn, please give him a sincere Thank You!



Thank you Glenn!

Sincerely, MPD Board of Directors







Glenn Beall

- Emeritus Member
- Historian
- glennbeallplas@msn.com



Len Czuba, Czuba Enterprises

- Emeritus Member
- Awards & Social Committee Chair
- LCzuba@CzubaEnterprises.com



Kathy Schacht, SPE

- SPE Liaison
- kschacht@4spe.org

MPD Board Members with Term Expiring in 2021



Ali Ashter, Advanced Plastics Enterprise

- Chair
- ashter2000@gmail.com



Maureen Reitman, Exponent

- Member Technical Program Committee & Awards Committee
- mreitman@exponent.com

Are you interested in volunteering for the BOD?

Please email Ali Ashter ashter2000@gmail.com

MPD Board Members with Term Expiring in 2022



Pierre Moulinié, Covestro

Secretary

pierre.moulinie@covestro.com

V • •

Victoria Nawaby, Patina Solutions

- Education Committee Co-Chair
- Webinar Committee
- nawabyv@hotmail.com



Anil Mahapatro, Wichita State University

- Technical Program, Awards Committee
- anil.mahapatro@wichita.edu



Bhavin Shah, Tepha

- Treasurer, Finance Committee
- shah@tepha.com

MPD Board Members with Term Expiring in 2023



Louis Somlai, Eli Lilly

- Vice-Chair, Communications Committee
- somlai_louis@lilly.com



Vipul Davé, Johnson & Johnson

- Past Division Chair/Finance Committee/TPC
- VDave1@its.jnj.com



Ravishankar Ayyar, Eli Lilly

- Membership Chair & Awards Co-Chair
- Awards & Social Committee
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Nathan Rader-Edkin, BD Corporation

nathan.rader-edkin@bd.com



Ajay Padsalgikar, DSM

- MPD Technical Program Committee Co-Chair
- Ajay.Padsalgikar@dsm.com



- **Gregorio Velez, Stryker Corporation**
- Gregorio.Velez@stryker.com

MPD Board Members with Term Expiring in 2024



Margie Hanna, Czuba Enterprises

- Member Finance Committee
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Ned LeMaster, DuPont

- Councilor
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Vijay Kudchadkar, Westfall-Technik

- Communications Committee Newsletter Editor
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Kyle Kulwicki, Kimball Electronics

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Kumin Yang (Charles)

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Rob Klein, ArtiCure

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Selvaanish Selvam, Avient

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Amin Sedighiamiri, AstraZeneca

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MEDICAL PLASTICS DIVISION COMMITTEES

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Are you interested in volunteering for the BOD?

Please email Ali Ashter ashter2000@gmail.com

MPD Sponsor – Avient

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AVIENT

Sustainable Design for Plastic Packaging



The plastics supply chain is keen to take action in order to work towards the circular economy and ensure plastic packaging products are created sustainably.

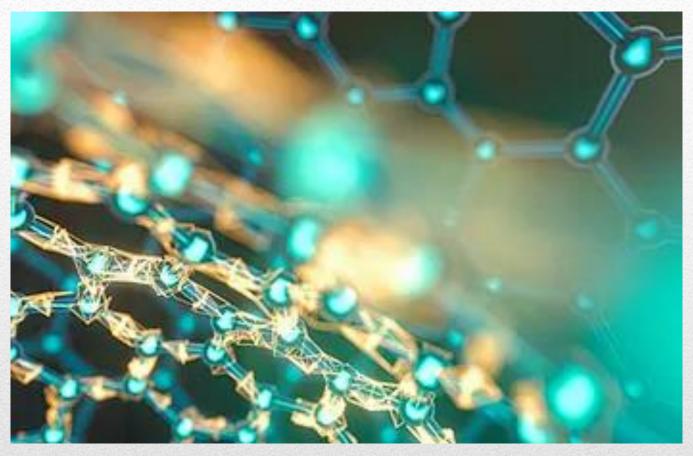
The sustainable design principles proposed herein can act as a guide in developing new products or processes. These principles may be phrased as questions to ask ourselves when developing new initiatives.

- Does this simplify life for the consumer?
- Are we minimizing environmental impacts?
- Have we engaged the whole supply chain?
- Are we taking a unified approach?
- Are we being transparent and open?
- Have we simplified the design?

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Newsletter Suggestions? Interested in Sponsorship?

Advanced Recycling of Healthcare Plastics: An Opportunity for Circularity



Plastics play a critical role in the delivery of safe and cost-effective healthcare services around the world. However, the healthcare industry has recognized that the environmental footprint from the widespread use of plastics, especially packaging, is significant. And while we recognize that reduction and reuse initiatives have a higher priority on the waste hierarchy and progress in these areas must continue, we wanted to explore advanced recycling technologies in an effort to discover if they could address the healthcare plastics waste stream in a meaningful way. **Read More...**

Newsletter Suggestions? Interested in Sponsorship?

Bio Plastics



Bioplastics are either:

1) made from a renewable resource such as corn or sugar cane (biobased),

- 2) break down completely via a natural process (biodegradable)
- 3) are both biobased and biodegradable.

They are used in the same ways as other plastics: packaging, agriculture, medical, automotive parts, 3D printing and more. Biodegradable plastics also reduce the amount of trash that is sent to landfills.

Globally, over 1.7 million metric tons were produced in 2014 and contributed to \$4.4 billion and 32,000 jobs in the U.S. Bioplastics are one of the fastest growing sectors of the plastics industry, with an anticipated 20-30% annual growth.

Read More...

Newsletter Suggestions? Interested in Sponsorship?

Plastics: Recycling and Sustainability



In order for a product or material to be truly described as sustainable it must be environmentally, economically and socially sustainable.

These aspects have become known as the Three Pillars of Sustainability. Plastics make a positive contribution to all three pillars of sustainability.

Plastics make an immense contribution to the environmental sustainability through their energy saving potential and intrinsic recyclability and energy recovery options. <u>Read More...</u>

Newsletter Suggestions? Interested in Sponsorship?

Improving HDPE recycling

Design, material and molding closure technologies come together to enable monomaterial recyclable blow-molded packages.



Advancing the circular economy for plastics requires transformation across the recycling system, from collection all the way to expansion of end-use markets. One of the biggest challenges facing the plastics recycling industry today is separating all of the various polymers entering the recycling stream.

Several steps throughout the supply chain play a role in the success of this separation, starting with the design of the package to consumers correctly placing items in the appropriate recycling bins to the capabilities of material recovery facilities and ultimately the actual plastics recycling plants. Each step in the supply chain is critical to generating usable feedstock for recycling. **Read More...**

Newsletter Suggestions? Interested in Sponsorship?

Healthcare plastic: let's recycle!



Healthcare's impact on climate and environment has long been under the radar, as the sector naturally has cure and patient safety as its number one priority. Yet, the growing amounts of medical waste in the wake of COVID-19 and the increasing focus on reducing greenhouse gas emissions from every sector in society means healthcare must also do its part in the green transition of society.

In a recent op-ed in *Brussels Times*, Dan Vukelich from the Association of Medical Device Reprocessors calls for reuse of single-use medical devices as the solution to challenges of climate change and plastic waste.

Read More...

Newsletter Suggestions? Interested in Sponsorship?

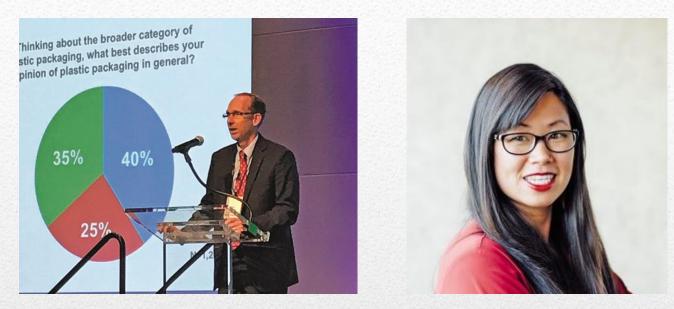
Greener medical plastics: Sustainability and the environment



Over the last century plastics have impacted all industry sectors by providing innovative solutions to the world's evolving needs. In more recent years, major material improvements have seen a global surge in demand for plastic in rapidly advancing industries such as healthcare. Today's most ground-breaking medical applications are dependent on plastics; from MRI and X-ray machines to prosthetic limbs, artificial joints, heart valves and the smallest of tubing, modern healthcare would not be possible without the use of plastic materials. **Read More...**

Newsletter Suggestions? Interested in Sponsorship?

Sustainability continues as a focus for resin makers, consumers



Sustainability remains a major focus for materials makers, consumer products companies and many others in the plastics value chain.

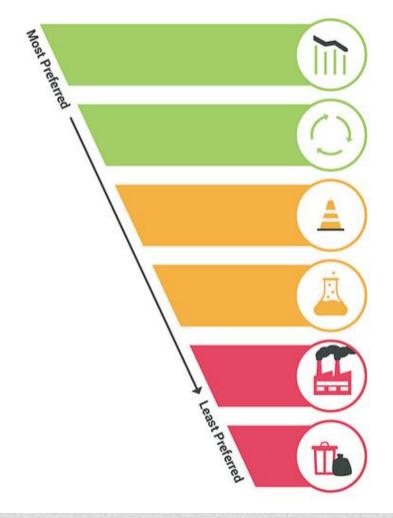
Resin maker Nova Chemicals of Calgary, Alberta, is working on resin designs to incorporate post-use plastics, according to Greg DeKunder, polyethylene marketing vice president for the company. Nova is also investing in recycling operations in Indonesia, which is in a part of the world where a large amount of ocean plastics originates.

Allison Lin has seen the impact of sustainability at previous career stops with consumer giants Coca-Cola Co., Procter & Gamble Co. and Starbucks. She's now tackling that topic for plastics molder and processor Westfall Technik Inc. as vice president of procurement and sustainability. **Read More...**

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The Past, Present, and Future of 'Reduce, Reuse, Recycle'

POLYCARBIN



Source Reduction

Design plastic waste out of production. Prevent unecessary plastic waste.

Recirculation

Use recycled resin in manufacturing process. Design products for continued use.

Downcycling

Plastic waste is used to create crude products. Downcycled products have a short life expectancy.

Chemical Recycling

Converting post-use plastics into new polymers. Decomposition & purification technologies.

Incineration

Releases harmful dioxins into the air. Undermines recycling infrastructure.

Landfill

Retirement and loss of valuable resources. Harmful leachate enters ground and water.

You've likely heard of the maxim 'Reduce, Reuse, Recycle,' known to some as 'The Three Rs.' For many, this saying served as early guidance as for how to be an upstanding environmental steward. Simple, memorable, actionable. As far as rules of thumb go, The Three Rs, in many ways, set a precedent in the realm of environmental communications. <u>Read More...</u>

Newsletter Suggestions? Interested in Sponsorship?

Sustainability in Plastics

Recycling of Medical Plastics



A large amount of non-infected plastic wastes are being generated at the healthcare facilities all over the world. However, only a small fraction is recycled. Conventionally, the used plastics are either disposed in landfills or inadequately incinerated. These practices impart an adverse effect on our environment. Plastics are indispensable part of the medical sector owing to their high versatility. The outbreak of COVID-19 clearly showed the growing demand for single use plastics. Hence, completely avoiding plastics can be challenging at this point of time. Recycling of plastics is undoubtedly a solution to solve the crisis of plastic pollution. <u>Read More...</u>

Newsletter Suggestions? Interested in Sponsorship?

Please email Louis Somlai somlai_louis@lilly.com

Sustainability in Plastics

Environmental sustainability of plastics in construction



Plastics have become increasingly popular in construction due to many factors, such as their performance, durability and their ability to be weathering resistant, low maintenance, cost-effective, lightweight and design flexible. These qualities make plastics ideal products for construction and an essential component for a sustainable built environment. The numerous types of plastics all have different performance levels and properties, enabling them to meet the exact needs of diverse applications, from corrosion protection to thermal insulation.

Today, buildings are both the largest user of energy (40%) and, consequently, the largest emitter of CO2 (36%) in the EU. It is, therefore, imperative to keep energy efficiency in mind when constructing and renovating buildings. The consumption of fossil energy during the use phase of a building is by far the biggest contributor to a building's environmental impact.

Read More...

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Please email Louis Somlai somlai_louis@lilly.com

Sustainability in Plastics

A path to recycling medical plastic waste from down under



The PVC Recycling in Hospitals program, developed by the Vinyl Council of Australia and sponsored by medical device OEM Baxter Healthcare, provides one pathway to effective recycling of the most widely used plastic in healthcare settings, PVC.

The PVC Recycling in Hospitals program, developed by the Vinyl Council of Australia and sponsored by medical device OEM Baxter Healthcare, provides one pathway to effective recycling of the most widely used plastic in healthcare settings, PVC, according to Ole Grøndahl Hansen, Project Manager, PVCMed Alliance (Copenhagen). <u>Read More...</u>

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Please email Louis Somlai somlai_louis@lilly.com

We would like to thank our generous sponsors for supporting our "Medical Plastics in Manufacturing: The Virtual Edition" virtual conference.

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Please email: Vijay Kudchadkar vijay.Kudchadkar@westfall-Technik.com

TREASURER'S REPORT



SPF

TREASURER'S REPORT – Bhavin Shah

SPE MPD Q2 2021 TREASURER'S

PLANTICE ENGINEERS REPORT	
Financial Report for the Period:	Mar 1, 2021 - July 31, 2021
Section/Division Name:	Medical Plastics D36
Balance as of Mar 1, 2021	\$ 36,479.34
Income	
Informa Payment for MD&M, 2020	2,500.00
2020 Q4 Chapter Passthrough	640.00
Newsletter Advertisement – Covestro LLC	820.25
Newsletter Advertisement – Evonik	1,500.00
2021 Q1 Chapter Passthrough	470.00
Newsletter Advertisement – Avient	820.25
Total Income	\$ 6,750.50
Expenses	
N/A	N/A
Total Expenses	\$ 0.00
Ending Balance as of July 31, 2021	\$ 43229.85

Do you have questions about the Treasurer Report?

Please email Bhavin Shah shah@tepha.com

MPD SPONSORSHIP OPPORTUNITIES



SOCIETY OF PLASTICS ENGINEERS – MEDICAL PLASTICS DIVISION

About Us - The Medical Plastics Division exists to encourage the

interchange of technical and regulatory information on the polymer materials/components used in medical devices and in device containers among the scientists and engineers who are working in medical device and related industries.

With over several hundred members and webinars, newsletters, and conferences arranged every year, MPD allows sponsors a unique opportunity to establish deep connections within the plastics community.

MPD NEWSLETTER SPONSORSHIP OPPORTUNITY

Be a sponsor on our Award-winning Division Newsletter! Below are the prices and sizes available for purchase. Do not miss this rare opportunity to have your company seen by thousands of readers every year!

> Full page - \$1500 Half page - \$850 Quarter Page - \$450 Eighth Page - \$250

The newsletter, as scheduled, is prepared and circulated four times per year. Every MPD member receives a copy emailed directly to their listed address. Additional copies are also circulated via the Chain and broader social media (LinkedIn, Twitter) in our continuing effort to reach new and prospective members and other interested individuals.

Follow us on our social media platforms to stay up to date on the latest medical plastics news!

- SPE Medical Plastics Division Micro Website
- SPE Medical Plastics Division LinkedIn
- SPE Medical Plastics Division Twitter

BENEFITS OF BEING A SPONSOR:

INSTANT MARKET ATTENTION FROM HUNDREDS OF MEMBERS

LOGO AND AD PLACEMENT ON NEWSLETTERS, WEBINARS, AND CONFERENCES

ACCESS TO MPD BOARD AND QUARTERLY UPDATES

SOCIAL MEDIA POSTS

FOR SPONSORSHIP PLEASE CONTACT

Louis Somlai somlai_louis@lilly.com

SPE MPD WEBINARS

The Medical Plastics Division and Webinar Team plans to host a series of webinars during 2021, with a goal of at least three to four. Some of the topics in consideration include: Advances in Medical Tubing Materials, Drug Delivery and Implantable Materials, Materials for Excipient Release, Relevant Changes in Regulatory Directives, Biodegradable & Resorbable Polymers in Med Device, Best Practices for Introduction of New Polymers in Med Device, Speed to Market through Improved Development, and Advances in Friction Reducing Materials. We are even considering a series on project management.

We welcome your interest to participate, as well as suggestions for topics and/or speakers. Please contact the MPD Webinar team:

Pierre Moulinié (pierre.moulinie@covestro.com), Victoria Nawaby (nawabyv@hotmail.com) Ned LeMaster (ned.e.lemaster@dupont.com)





Virtual Technical Forum & Networking Event

As Members of the Medical Plastics Division, you are welcome to join the MPD Board of Directors for an informal meeting to chat, catch-up and network. We will kick off the meeting with a presentation from an invited speaker, followed by a "halfhour social".

For more details please email: Louis Somlai or Pierre Moulinie 1st Wednesday of the Month

5-6 PM EST

5:00-5:30PM Invited Speaker / Technical Seminar

5:30-6:00PM

Networking (topical break out rooms lead by BoD members







