



Mold Technologies Division

Division of Society of Plastics Engineers

SUMMER 2023

Letter from the MTD Chair - *To Glenn Beall*

Dear Glenn,

Today, April 18, 2023, is a special day for you and for our division. I only regret that I am unable to be in attendance as you receive your Lifetime Achievement Award and are inducted into the Emeritus Membership of the Mold Technologies Division. We had planned to present this award and make your status change during the PTXPO last month. Unfortunately, your sciatica acted up and you took a spill in the parking lot. Nevertheless, we are so pleased to recognize your achievements and contributions to the plastics industry at large and to our division and its membership in principle. I am certain that Mark is making a great presentation as I am writing this letter of appreciation.



Scott Peters
SPE MTD Chair

For our division, your foresight in the formation of the organization along with your insight in setting the groundwork for our leadership has placed the Mold Making and Mold Design Division on a course for success. To say that you have left an indelible fingerprint on our industry is an understatement. We are so fortunate to have had an opportunity to learn from your tutelage. Your contributions to me, personally, are immeasurable. The encouragement you have provided me during my time in SPE and in leadership of our division have guided and shaped me into the leader that I am. Your friendship and that of Patsy to Trish and I are among my treasured memories. The sponsorship letter that you provided for my induction into the Plastics Pioneers is truly humbling.

Glenn, as you are celebrated this evening, please know that our entire Division Board and division membership is celebrating with you. Please accept our sincere congratulations and thanks for all that you do and have done.

Sincerely,
Scott L. Peters - Division Chair 2022 – 2024
Mold Technologies Division
The Society of Plastics Engineers, Inc.



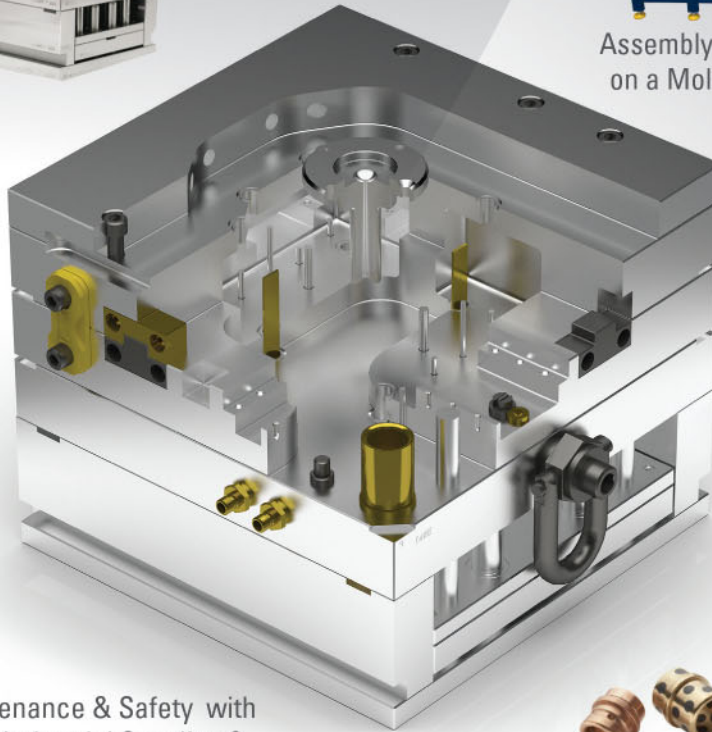
Glenn Beall and Mark Wolverton



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Editor's Commentary

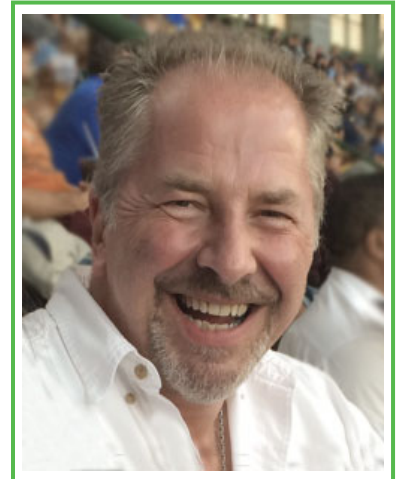
Did you have an opportunity to attend PTXPO 2023? I was very glad I did. I've been heavily involved in our industry's trade shows and technical events since the turn of the century - I do mean this very last one. My first plastics event was a big dog, NPE 2000, and it set the stage for my appreciation and respect for the many great people and many remarkable manufacturing technologies in our industry. I had not experienced an in-person attendance at one of our industry's trade events since late 2019, so I was very much looking forward to PTXPO.

PTXPO 2023 certainly had an impressive footprint. Held at the Donald E. Stephens Convention Center in Rosemont, Illinois, the show had a strong and expansive cast of exhibitors and working machinery. The atmosphere on the show floor was lively and I was very pleased to experience a positive mood and outlook with the many colleagues with whom I had opportunity to engage.

It was no surprise to discover change. Some companies changed names, and some ownership. Quite a few people in my circle of familiarity have changed roles or companies or both. In every case, these transitions, whether deliberate or unplanned, were perceived as opportunities for future success and new adventures - which of course is the attitude to have.

It is always quite an experience seeing the many displays of the latest machining and processing technologies. Whether it's CNC machinery, injection molding machines, CAD / CAM applications, automation systems - a manufacturing trade show is an exciting and inspiring place to be. But the best part of all is the people. Plastics industry people are never too old to learn and never too busy to teach.

What's up next? How about the MoldMaking Conference 2023, taking place in fabulous Minneapolis, August 29-30? It aims to be the leading forum for mold manufacturers... See you there!



John Berg
SPE MTD Newsletter Editor

Chair's Commentary

It is hard to believe that PT-EXPO 2023 ended two months ago. Yet here we are at the start of June with many of us looking forward to and planning for the next major plastics industry trade event.

I've heard it said that a trade show is made up of 3 major activities (exclusive of booth set-up related activities):

1. **Show Preparations** – Getting the word out that you will be exhibiting and that you look forward to meeting with attendees during the event.

2. **Being Present at the Show** – That is making sure that your mind is on what is happening at the event and that you are focused on the attendees – representing your company's products and services with enthusiasm.

3. **The Follow-Up** – Reaching out post show with contact information, covering discussion topics, and making sure that your guests realize how important they are to your future success. Of course, you plan to contact the customers and prospects that you met, but don't forget to follow up with your network – stay in touch!

If you fail to properly plan and execute numbers 1 & 3, you are likely better off not doing number 2 at all.

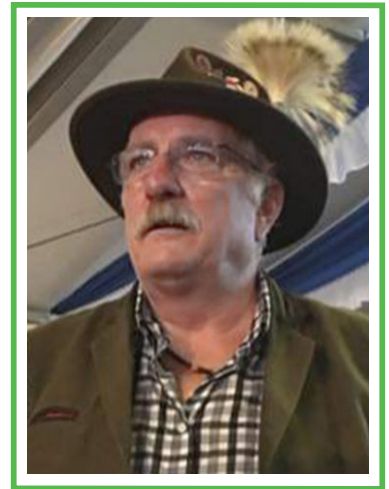
While I have corresponded with every guest who spent time with me in our PTXPO MTD booth, I will add this follow-up communication. When we talked about the Mold Technologies Division, I stressed how it is imperative to understand the value proposition provided by becoming and maintaining membership.

Here are some key points that I would like to share:

Membership offers enhanced *Networking Opportunities* – On Wednesday evening of PT-EXPO week, we had a Division Social/Mixer at Crust Brewing. Approximately 40 folks gathered for a nice evening of pizza, beer, and socializing – This wasn't limited to Division Membership and hopefully you found it to be of interest and you gained some new friends/colleagues.

Membership offers new outlets for *Technical Discussions* – During the event our interactions allowed the Division Leaders an opportunity to hear from you directly and to gain a better understanding of what areas of the industry you see as needing further development. The feedback I received:

- Educational Opportunities
- Leadership Development
- Trade Show Planning / Execution



Scott Peters
SPE MTD Chair

Continued on Page 5

Chair's Commentary continued

Membership offers *Pier Recognition* for service to the industry and for expertise in craft. The Mold Maker – Mold Designer – Mold Repair Person of the Year awards are not limited to members of the division. However, they do enhance the individual's stature in industry and participation in the process through nominations brings great reward.

We are planning our 2024 calendar year and are already talking about events at Ameri-Mold 2024, to be held in Columbus, Ohio, June 5-6. Rest assured the MTD will be on-site and well-represented and the team at Mold Making Technologies Magazine will do a fantastic job of coordinating activities. If you have any suggestions for the division in advance of the show, please let me know!

Thank you again for taking the time and showing interest by stopping by our booth. We look forward to seeing you again soon and adding you as a member of the SPE Mold Technologies Division, if you aren't already!

Scott L. Peters - Division Chair
2022 – 2024

Mold Technologies Division

The Society of Plastics
Engineers, Inc.



A Special Message from Eric Hecker, SPE MTD Membership Chair

As Membership Chair, I would like to extend a warm welcome to the new and existing members of the SPE Mold Technologies Division (MTD). We are grateful you have decided to join our chapter of professionals. The enthusiasm of this division and its impressive wealth of knowledge is a great resource to us all.

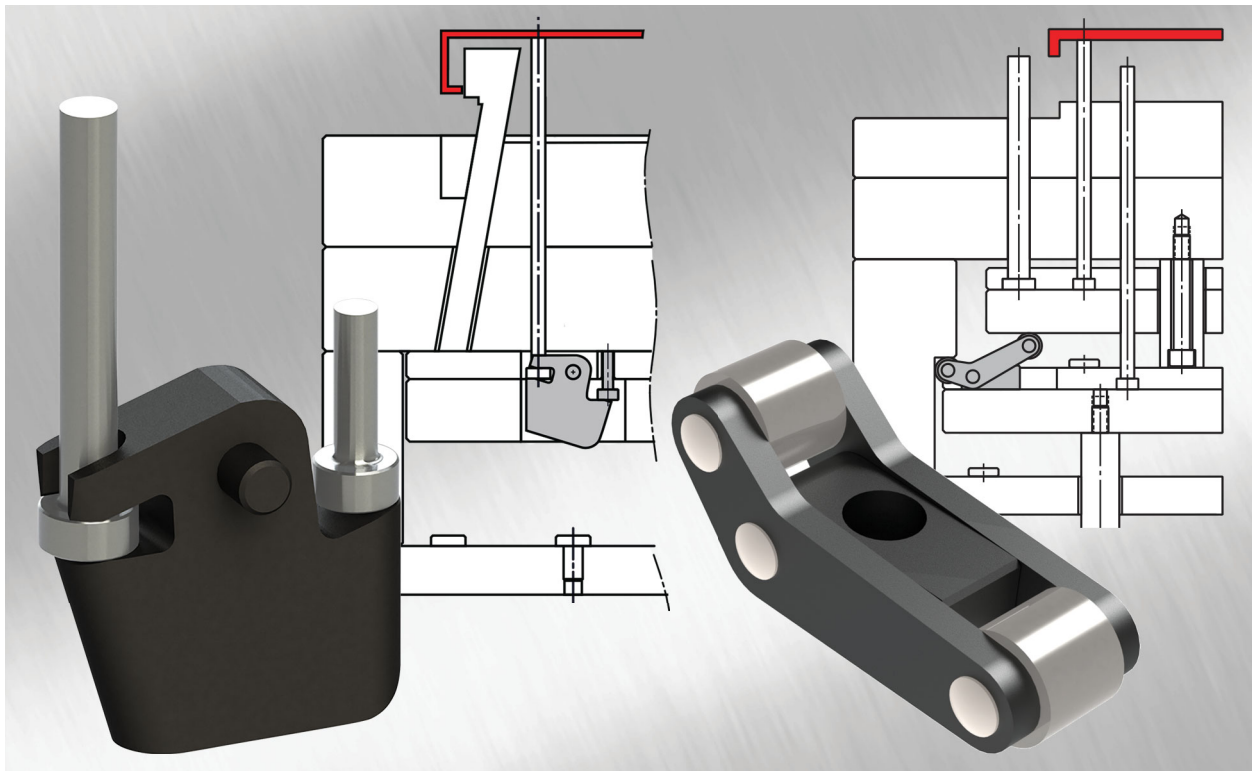
I would encourage all of you to utilize and reach out via our forums, and if you are at an EXPO of conference, please stop by to engage in some stimulating conversation. I look forward to seeing all of you on Linked In as well - join us!

Eric Hecker - Sales/Project Engineer, Eifel Mold & Engineering

New Compact Ejection Acceleration from Progressive

Progressive Components (Wauconda, IL) expands its mold component product line with the introduction of Ejector Accelerators. Featuring a compact footprint and sized for inch ejector pins and ejector plates, Ejector Accelerators create a second-stage ejection without the need for a second set of ejector plates. They are designed to actuate an ejector pin forward when additional pin travel is required to release the molded part from lifters, stripper plates, or deep core features.

“Mold designers are always fighting space,” says Progressive’s Project Engineer, Kevin Kelly. “The Ejector Accelerator has robust strength yet features a thin and compact footprint. This design allows it to squeeze between a mold’s other features such as lifters, support pillars, and ejector pins.”



Ejector Accelerators are available in four standard-inch sizes and include a kicker pin and dowel pin installed. This product further builds out Progressive’s Plate Sequence Control program and is joined by a rocker-style Plate Accelerator for double ejection applications, along with additional sizes of Latch Locks for large multi-parting line tools.

CAD geometry for Progressive’s new Ejector Accelerators is available from the company’s CADalog™, a free parts library with downloads in multiple formats, including SolidWorks, NX, VISI, STEP, Parasolid, ACIS, and IGES. Individual CAD files can be found at shop.procomps.com.

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Damage-Free De-Molding with Complex Injection Molded Parts - The HASCO Slide Unit Range Z18140/...

With many complex injection molded parts, undercuts or recesses cannot simply be de-molded in the principal de-molding direction. In such cases, movable cores in the mold allow the injection molded part to be removed without damage. Use is made of slide elements of varying design.

Flexible De-Molding

The complex HASCO slide unit range Z18140/... sets innovative standards in the flexible de-molding of small undercuts or recesses. The extensive portfolio with slide housings (square and round) and slide locking heels (square, round and rectangular) offers a maximum of variable mounting options.

HASCO

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Innovative Slide Unit Combinations

Three standardized mounting geometries are available from stock, and slides are also available for contour inserts for customized mold core designs. The combination of two slide variants produces 12 different assemblies in a wide range of dimensions and materials, either with or without DLC coating. All in all, HASCO offers dimensionally coordinated parts for more than 250 innovative slide combinations.

Top Sliding Properties, Long Service Life

The slide units, which can be easily installed from the parting plane, are noted among other things for their long slide paths. Corresponding adjustment discs are available for aligning the slide positions.

An optimized locking system allows high forces to be absorbed. The DLC coating on the slides ensures optimum sliding properties and a long service life. Compatibility between all the components in the HASCO slide unit range is guaranteed.



HASCO Multicoupling System – Extension of Product Range

The innovative HASCO multicoupling system enables the central connection of several cooling circuits in one single step and offers numerous advantages in process optimization. Setting-up procedures can be carried out through a reliable and simple connection of the machine and mold side with only one lever movement and without any risk of mixing up the different cooling circuits and hoses.

New: Multicoupling System USA, French and Clean-Break System HT

In addition to the standard system, the new USA (ZI) and French (FRA) systems are now also available as open or closed versions with valve. In addition, HASCO offers the clean-break multicoupling system exclusively also as a HT version with flat sealing front surfaces, which reliably prevents cooling fluid leaking when decoupling. The temperature resistance of the multicouplings can be increased to 180°C with water applications, creating considerable competitive advantage.

Modular Structure

HASCO thus offers a wider range of services for customers throughout the world. Overall, the extension to the product range comprises 60 new products, each with three model series. Plates are available for 6, 12 and 20-connections, whereby the couplings can also be replaced without dismantling the hoses. The modular structure allows individual configuration as well as simple integration into all existing systems.

Variety of Combination Possibilities

The exceptional diversity of combination possibilities with nipples, couplings and hoses opens the door to future-oriented solutions for all tasks in cooling technology. These include versions with inner or outer thread, Push-Lok or hose nipples, rounding off the comprehensive range.

Competent Partner in Cooling Technology

High-quality products go hand in hand with top-class service. This begins at HASCO with competent and individual consulting. With over 50 years of experience, HASCO is available to its customers around the world as a leading expert and partner in the field of cooling technology.



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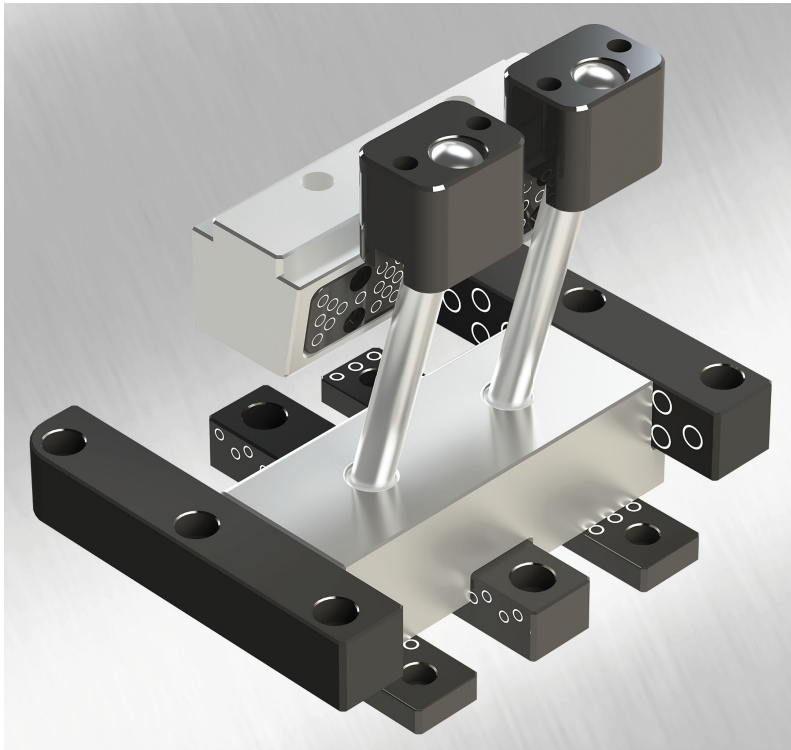
- Cylindrical bearing surface self-aligns for warped plates
- Simplified assembly with click-in-place C-Gib feature
- Hardened S-7 Core Blades

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New Slide Components Can Run Greaseless

Progressive Components (Wauconda, IL) expands its Slide Component product line with the introduction of new Gibs, Center Guides, and Wear Strips.



Each new side action component features Progressive's Z-Series Black Nitride finish and particle ring combination. Items are available as blanks, with pre-machined counterbores for screws, and designed to be cut-to-length to accommodate each unique application.

For the mold builder, off-the-shelf blanks for modifying in-house or ordered Mold-Ready™ from Progressive—cut-to-length, and corner radii added—saves valuable shop labor and reduces lead times. For the molder, the Z-Series proprietary treatment guarantees long-term operation and durability and provides new side action options ideal for greaseless applications.

Square Gibs and Center Guides are available in six standard sizes, Wear Strips are available in eight standard inch sizes, with a range of lengths from 6" to 13.5" long.

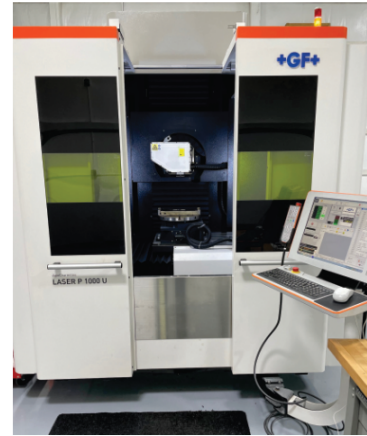
CAD geometry is available from the company's CADalog™, a free parts library with downloads in multiple formats, including SolidWorks, NX, VISI, STEP, Parasolid, ACIS, and IGES. Individual CAD files can be found at shop.procomps.com.



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For quotes or questions, please contact Joe Gendron, President - MST Inc.

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New HASCO Slide Units and Core Inserts

With many complex injection-molded parts, undercuts or recesses cannot simply be de-molded in the main de-molding direction. Movable built-in components in the tool enable the injection molded article to be removed from the mold without damage. A wide variety of different types of slide elements are used.

The new HASCO slide units Z18185/... open innovative ways of designing tools. The type of actuation enables a shape to be built up without complex and space-consuming bores for inclined columns for slide actuation and allows high force absorption.

The associated core inserts Z18186/... in the materials 1.2343 and 1.2360 with different hardnesses are available for individual contouring.

The slide units, which can be easily installed from the parting line, offer the largest possible contour area with the smallest possible installation space. The slides can be individually designed for demanding applications. The DLC coating on the slides guarantees the best sliding properties and a long, low-maintenance service life.

In principle, the compatibility of all components within the HASCO slide unit range is guaranteed.

Stay up-to-date with HASCO innovations - subscribe to our monthly newsletter:

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**Product Design & Development,
Injection Molding,
Rotational Molding**

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MOLD TECHNOLOGIES DIVISION

2022/2023 BOARD OF DIRECTORS

OUR MISSION: *To be the leading industry resource for technical information and to advance plastic mold engineering technologies, while fostering industry growth, education and leadership.*

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MEETING MINUTES

Board of Directors Mold Making and Mold Design Division SPE - May 9, 2023

	Present	Absent	Excused		Present	Absent	Excused
Tony Demakis			X	Jason Murphy			X
John Berg	X			Richard Evans			X
Scott Peters	X			Cyndi Kustush		X	
Eric Hecker	X			Brenda Clark	Ex-Officio		
Greg Osborn	X			Davide Masato			X
Barbara Arnold-Feret	X			Wes Stephens	X		
Stephen Hansen		X		Hannah Coombs		X	
Rich Martin			X	Kerry Kanbara			X

3:05 Central Time – Meeting start time / Lacking quorum, the meeting functioned as a Committee of the Whole

Division Chair – Scott Peters

- The PTXPO booth traffic was discussed – positive results
- Scott thanked all who worked at the booth
- The social at Crust Brewing was a success for those who participated
- Next trade event to be either NPE in Orlando or AmeriMold in Columbus
- Strong emphasis on participation Amerimold 2024
 - It is the 25th Anniversary of the event in Columbus Oh – the starting point for the show
- Lessons Learned
 - If presenting awards in the booth, we need to have a public address system
 - Coordination between media companies and award recipients is critical for “live stream” and recorded interviews

Chair-Elect Report – Richard Evans (Scott spoke on Rich’s behalf)

- The ballot needs will be published by 5/12/23
- Scott posted calls for nominations to the board on LinkedIn and 3-SPE Message Boards
 - High interest in participation returns
 - Confirmation of intended participation with business bio and photo needed

Division Secretary Report – Wes Stephens

- Nothing new to report

Division Councilor Report – Barbara Arnold-Feret

- Nothing to Report

Education Chair Report – Jason Murphy – Kerry Kanbara

- Nothing to report

Continued on Page 14

Meeting Minutes - continued

Web and Public Interest – Hannah Coombs – Absent

- Nothing to report

Membership Chair – Eric Hecker

- United States members – 205
- World – 54
- Total 259
- Total members are down (3)
- There is increased interest in the division from countries outside of the United States
- Follow-up emails sent by Scott to all booth visitors

Sponsorship Chair Report – Greg Osborne / Stephen Hansen - Absent

- Nothing to report

TPC Report –Davide Masato - absent

- Nothing to report

RETEC Report – Barbara Arnold-Feret

- Looking at a potential longer-term project towards either NPE 2024 or AmeriMold as venue options

Newsletter Editor Report – John Berg

- Possible new sponsors (MAYA-HTT) for the newsletter
- Draft copy on the next newsletter to go out next week

Treasurer’s Report – Rich Martin

- \$167,945 - Bank of America
- Waiting for directions on where to send a check for the following:
 - 2022 Mold Maker of the Year
 - 2023 Mold Maker/Designer/Repair of the Year award

International Committee – Davide Masato – absent

- Nothing to report

Intersociety Liaison Chair – OPEN

- Scott working with AMBA and CMBA towards improved inter-society liaison roles along with mutual support in the training of mold makers and designers.
- Scott has reached out to NTMA and will be reaching out to NIMS on similar endeavors.

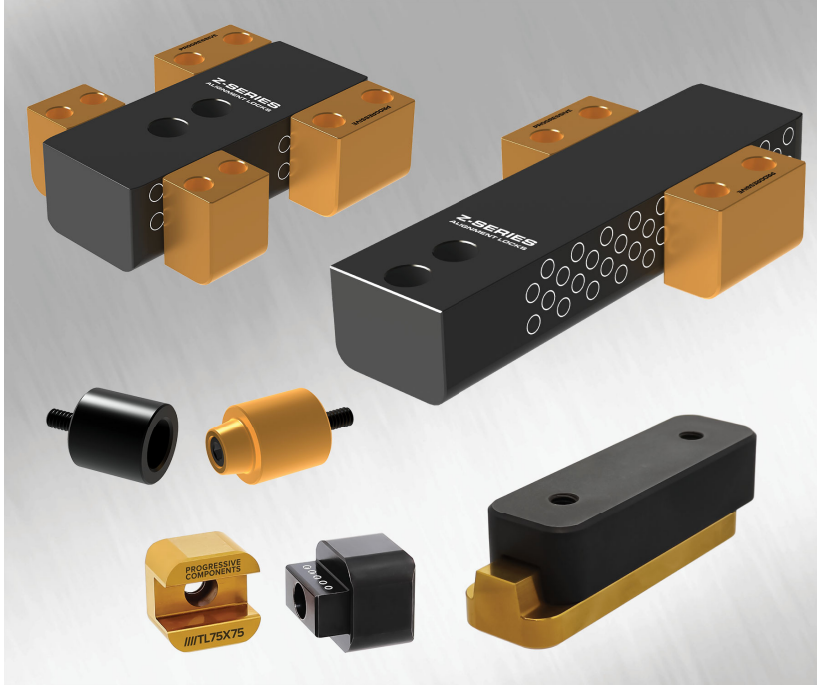
Track the Apprentice – Hannah Coombs - Absent

- Nothing to report

New Business – Next meeting June 13, 2023 @3:05 CDT

New Alignment Options Machined from Parting Line

Progressive Components (Wauconda, IL) further expands its Z-Series Alignment Lock product line with the introduction of several new options for easier mold manufacturing.



Designed to be machined from the top at the parting line, new Top Machine Style Bar Locks simplify machining steps and increase pocket accuracy by allowing the alignment pockets to be machined on the same setup as cavity and core plate pockets. For multi-parting line tools, Progressive has also added an X-Style Bar Lock configuration. Both Top Machine and X-Style Bars are available in three sizes to pair with corresponding Guides.

To avoid water lines and other mold features, new Internal Top Locks mount inboard versus at the mold base's edge. They are available in three inch and three metric sizes (as well as shuttle sets) to provide a square footprint for maximum alignment with minimal space requirements. The new Counterbored Round Taper Lock is available in five inch sizes and provides counterbored mounting to allow for parting line installation. And new Rectangular Taper Bar Locks match industry standard sizing but extend performance with better materials and treatments utilized.

Progressive's Z-Series Alignment Locks provide precision alignment of mold halves to protect shut-offs and to ensure parting line match. Each new Bar Lock, Guide, and Internal Lock product is manufactured using patented Z-Series standards with proprietary materials and treatments to secure alignment throughout the life of the tool.

CAD geometry is available from the company's CADalog™, a free parts library with downloads in multiple formats, including SolidWorks, NX, VISI, STEP, Parasolid, ACIS, and IGES. Individual CAD files can be found at shop.procomps.com.

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Lieutenant Governor Mark Robinson of North Carolina On Vocational Technical Education

According to a recent study done by Resume Builder, one in five college graduates are working jobs that are unrelated to their college major, and roughly 40% of recent graduates are struggling to get a job after graduating.

Recently, North Carolina's Lieutenant Governor, Mark Robinson, participated in an interview on "Just the News." During the interview, he mentioned that he had a strongly held belief that there are excellent alternatives in career choice for those entering the workforce today. He holds to the understanding that, while we need Doctors, Nurses, Lawyers, Engineers, and Teachers, not everyone has a career path that would require a 4-year (or more) degree. He stated that Vocational / Trade Schools and the resulting "Journey-Level" occupations are equally important and should be encouraged.



Borrowing from a transcript of "Just the News," Mr. Robinson stated, "We're not against four-year university degrees, but we also want to let our students and our children know that there are a number of other venues that you can go through to make, not just a living, but a great career," Robinson told the "Just the News, No Noise" TV show Tuesday. "And the skilled trades of those opportunities definitely exist."

He praised North Carolina for their efforts to promote vocational training so students will have other alternatives. "This is a huge opportunity and a unique opportunity to start giving students not only an academic education, but also vocational education," he said. "That never leaves you. So, if you learn electrical work, that skill never goes old."

Apprenticeships are a work-based learning model that combines supervised on-the-job / hands-on training along with formal classroom education focused on the specific trade area. Other states that prioritize and support apprenticeship programs in the trades are Indiana, Wisconsin, and Iowa. Along with their respective governments, manufacturing and service industries in each "Apprentice State" state play a critical role – providing training and subsequent employment opportunities along with working with their local technical colleges to ensure the curriculum serves both the student and industry.

"Those employers and those employees are key to success in our state because we want folks to have great careers," Robinson said.



So, what can we, as the SPE MTD (the ultimate injection mold enthusiasts) do? Here are a few ideas:

Send a note expressing your appreciation and support of the North Carolina initiatives to Lieutenant Governor Robinson and his support for alternatives in career education.

Send a note to the Department of Labor in your state asking how you can help to promote alternatives in education to your state's young workforce.

Work closely with the Vocational / Technical Schools in your area in promoting the trades as great career opportunities.

Host an Open House and share your story with the students, parents, and educators in your area.

Attend Career Nights with your local SPE Section and share your story and initiative with them.

Work with your local Chambers of Commerce to find other like-minded businesses who rely on skilled labor to serve their customers and grow their business.

There are plenty of other ideas, and all it takes is the right fuel to propel the system forward.

Get involved! Let's help form the future of the next generation of Plastics Professionals!

SPE COMMUNITIES

SPE Communities is where industry professionals can participate in peer-to-peer conversations and engage in technical and non-technical discussions. Participants can subscribe to posts, see who else is online, receive discussion notifications, connect directly to each other via direct messaging and more. Communities are an ideal way to stay connected with your peers to collaborate, share advice, find solutions, and build relationships. Get in on the discussions or start a conversation today! Visit the SPE website: <https://www.4spe.org/> and go to the Conversations menu and select SPE Communities

All Plastics Professionals have access to the following:

PLASTICS AND THE ENVIRONMENT

A forum for fact and science-based conversation about plastics recycling, bio-materials, sustainability, circular economy principles, and more.

WHAT'S ON YOUR MIND?

Not everything we talk about together needs to be plastics or work-related. Tell us what's on your mind!

Paid SPE members have EXCLUSIVE ACCESS to the most active SPE Communities, including:

INDUSTRY EXCHANGE

Not everything we do is technical! Engage in a broad range of topics in the INDUSTRY EXCHANGE. Topics outside of the 'technical' box are encouraged. Here you can provide answers or comments from your experiences, or just simply give your opinion.

TECH TALK

TECH TALK is where professionals from around the world discuss the latest technical issues and innovations in a range of marketplaces. Put the knowledge and expertise of thousands of plastics professionals to work for you. Ask a question - or provide an answer.

GET INVOLVED - VOLUNTEER OPPORTUNITIES FOR SPE MEMBERS

This forum is where SPE Volunteer positions (Chapters, SPE HQ) are posted. You can use this resource to find a position that is right for you!

SPE's Volunteer Leaders still have access to the following:

LEADERSHIP LANE

COUNCIL COMMITTEE OF THE WHOLE

Don't miss out! Join SPE now and be a part of all SPE's Community discussions.

START A COMMUNITY!

Want to start a Community of like-minded plastics people who share your interests and passions? Maybe you just want to talk, share ideas, discover new ways of doing things and to expand your network? Submit your Community ideas here: <https://www.4spe.org/i4a/pages/index.cfm?pageid=6373>

Newsletter Sponsorship

The SPE Mold Technologies Division Newsletter is now issued four times a year, with readership composed of individuals involved in all aspects of the mold making industry. These issues are made possible through the support of sponsors shown in this Newsletter. SPE Mold Technologies Division thanks these sponsors for their generosity and encouragement in the publishing of our Newsletter.

For information on sponsorship of future issues, please contact:
Scott Peters - Chair Elect/Awards Chair/Sponsorship Chair
Scott.peters@moldedmarketing.com

Publication Release Dates

Spring Issue
April 2022

Summer Issue
July 2022

Fall Issue
October 2022

Winter Issue
January 2023

SPONSORSHIP INFO 2022-2023

Platinum (\$2500/year)

Ad Specs: 9.75" H x 7.25" W

- Full page color ad in quarterly newsletter for one year circulated to members and distributed at SPE MTD events
- First right of refusal to a tabletop at Technical Tours to educate participants on new technologies/strategies
- Opportunity to submit a technical article for publication in newsletter
- Company logo on signage in MTD booth at AmeriMold
- Company logo on signage at ANTEC
- Company logo displayed at SPE events

Gold (\$1250/year)

Ad Specs: 4.75" H x 7.25" W

- Half page color ad in quarterly newsletter for one year circulated to members and distributed at SPE MTD events
- First right of refusal to a tabletop at Technical Tours to educate participants on new technologies/strategies
- Opportunity to submit a technical article for publication in newsletter
- Company logo on signage in MTD booth at AmeriMold
- Company logo on signage at ANTEC
- Company logo displayed at SPE events

Silver (\$625/year)

Ad Specs: 4.75" H x 3.5" W

- Quarter page color ad in quarterly newsletter for one year circulated to members and distributed at SPE MTD events
- First right of refusal to a tabletop at Technical Tours to educate participants on new technologies/strategies
- Opportunity to submit a technical article for publication in newsletter
- Company logo displayed at SPE events

Bronze (\$250/year)

Ad Specs: 2" H x 3.5" W

- Business card size ad in quarterly newsletter for one year circulated to members and distributed at SPE MTD events
- Company logo displayed at SPE events