

Mold Technologies Division



Division of Society of Plastics Engineers

Volume 39, Issue 1, October 2017

Message from the Chair

Welcome to the beginning of the 2017-2018 SPE fiscal year. I wish to say a personal hello to all Mold Technologies Division members new and old. It is an honor to be this year's chair.

The board is complete to start this year and holds many energetic and diversified people in all the required director positions. But we still can use your help in many ways! We are always open to any members interested in helping our board continue to grow and assist with the division mission. I hope you will consider joining us on the board. It is a great team effort and you can easily get in touch with anyone on the team to sign up. Just let one of us know! Or if you wish we can always use more support in sponsors, speakers, and technical articles.

Our Mission is: "To be the leading industry resource for technical information to advance plastic mold engineering technologies, while fostering industry growth, education and leadership"

This year will be the year that ANTEC 2018 is in conjunction with NPE 2018 and it will be held May 7-10, 2018 in Orlando, FL. While NPE will be held May 7-11, 2018. Make a note of this and join one or more of the technical paper sessions if you can. Anyone interested in supplying a technical paper or commercial presentation please contact Rocky Huber, Jay Fidorra or Brandon Hough, the Technical Program team, for more information.

Another new year means the grant program starts anew. Please contact Greg Osborn if you are interested in supporting a local program that benefits the members of the Society of Plastics Engineers, the plastics industry, and/or the general public. He can send you a copy of the grant proposal request form. Every year in June is Amerimold, this year it will be held June 13-14, 2018 in Novi, MI. This is where we announce the Mold Maker and Mold Designer of the year. That ballot will be issued with the winter issue in December 2017. Start thinking about some candidates now and let us know. The candidates do not need to be SPE members, but should be someone who made significant contributions to their profession and advancements in the plastics industry.



Brenda Clark

SPE Mold Technologies Division Chair

...continued on page 3

Sponsor's Index

Sponsor	Page	Sponsor	Page
DME Company LLC	10	PRISM Plastics	8
EDRO Engineering	12	Progressive Components	5
Ellwood Specialty Steel	13	Synventive Molding Solutions	9
HASCO	16	SPE Antec 2018	3
PCS Co.	4	Wisconsin Engraving / Unitex	7

Editor's Mold Musings

From what I can gather from speaking to various people from a variety of mold shops, it's been a pretty good year so far. However, it seems to be the larger shops that are fairing the best. As OEMs become more demanding (and that includes OEMs across the entire range of markets – not just automotive) mold shops must meet those demands.

It is becoming more difficult for small shops to make the investments needed to meet some of these demands from OEMs such as 3D printed prototype parts. While I've been advocating for mold makers to invest in 3D printing for two decades, very few mold shops made this move. Being able to add value to the mold build process through 3D printed prototype parts – or even making 3D printed mold core/cavity sets – is giving that mold shops that have made these investments a return.

OEMs' engineering departments leap-frogged mold shops in this area by investing in desktop 3D printers, thus leaving mold makers out of the loop – and without the opportunity to create another profit center.

What has seemed to catch on lately is 3D mold design simulation using one of the advanced software programs available through Moldflow or Moldex3D or Sigma Soft. Talking to a consultant for mold designers/mold makers and molders recently, I learned that these mold design/molding simulation software programs are being used more and more by mold makers as a way to mitigate risk in mold design, and reduce the number of iterations required.

Success doesn't come easy. Neither does profitability and growth. Technology advancements in mold design and manufacture are coming on strong, and the mold companies that are realizing the benefits of those by making the investment necessary are the ones getting the work.



Clare Goldsberry

SPE Mold Technologies Division
2017/2018 Newsletter Editor

Clare Goldsberry, Editor

CALL FOR PAPERS



ANTEC 2018 – Call for Papers from the Mold Technologies Division

Is your company innovating mold design or technology? Have you created a new design to accommodate molding/processing that improves cycle times and saves money? Are you using 3D printing (aka Additive Manufacturing) in part prototypes or mold build? The SPE Mold Technologies Division needs you to submit your papers or power point presentations. In fact you don't even have to submit a paper – now a technical presentation can be done without a paper attached. Additionally, all papers and power

point presentations remain property of the presenter.

Just remember, this should be a *technical* paper/ presentation – *not* just a sales pitch. Provide the audience with technical information for designing molds and mold building, and why this is innovative, creative and beneficial for the customer. Papers and power point presentations will be peer reviewed through the system. Contact Rocky Huber at rhuber@ivanhoetool.com for more information or to make a submission.

Message from the Chair *(continued)*

Stay tuned in on The Chain at <http://thechain.4spe.org> for the latest in Tech Talk, Industry Exchange, Career Central, and Campus Connection to see the latest news from Mold Technologies Division, other divisions, sections and boards. As always you can review more information on these following pages for organization contact information, event schedules, sponsor's advertising, the information on newest products for our industry, to the last meeting minutes. Now enjoy the rest of this division's news....hope to see you all soon at one of the above mentioned events.

Brenda Clark

OESA/Harbour Results: Automotive Tooling Barometer

The Original Equipment Suppliers Association (OESA) and Harbour Results Inc., (HRI) recently released the results of their Q2 2017 Automotive Tooling Barometer. The tooling industry experienced a slightly slower second quarter compared to Q1, said the report, however capacity utilization for both mold and die tool makers is still well above 80%. Shops with revenue ranges of \$40 million and above are experiencing peak capacity utilization rates of 95%.

"There is still a large discrepancy between tool shops that are very busy, and those that are not," said Laurie Harbour, president and CEO of HRI. "In fact, we're seeing the standard deviation in the market widening as the year progresses, and the smallest mold shops are struggling to even maintain 60% utilization."

The study also addressed differences between supply chains in the industry. Primary tool shops are generally larger, with better relationships at the OEM and Tier 1 level, while secondary shops are more focused on

developing niches to fill capacity. Primary shops have consistently had higher utilization (95%) than secondary shops (78%), yet are more exposed to work on hold, and receive fewer progressive payment terms, said the report.

"Each supplier has distinctly different approaches in the marketplace, said Julie A. Fream, president and CEO, OESA. "As a result, primary shops typically oversell to maintain revenue size and turn to outsourcing to help level loads during particu-

larly busy periods."

The survey population was comprised of mold shops (72%) and die shops (28%), both in the U.S. (68%) and Canada (32%). Shops with revenue ranges of less than \$5 million up to greater than \$40 million were represented, with the largest percentage of shops coming from the \$10-\$20 million (26%) range.

The OESA Automotive Tooling Barometer survey series was created by the OESA Tooling Council with the partnership of



Headquartered in Fraser, Michigan and with company roots dating back to 1950, PCS Company manufactures and distributes mold components, mold bases, hot runner products, and molding supplies for the plastic injection and die casting industries. Our customers include plastic injection molders, mold makers, mold designers, and die casters throughout North America.

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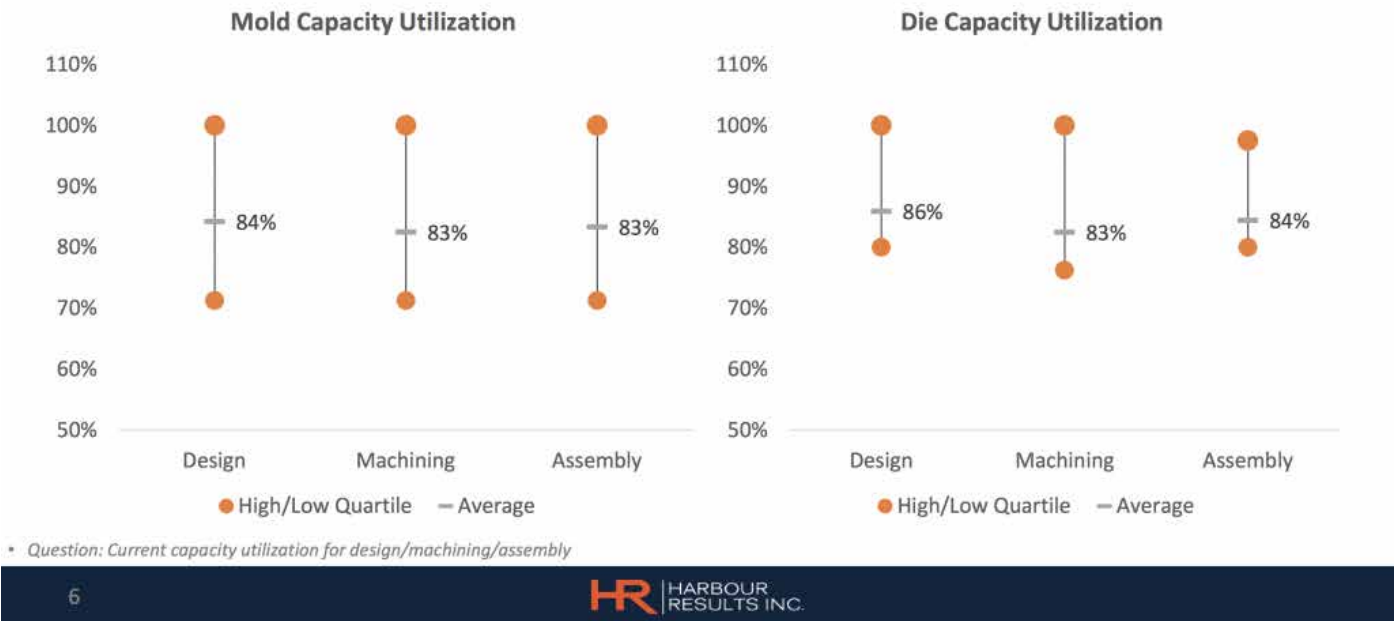
Harbour Results Inc., to provide an indicator of the current state of the automotive tooling

industry, and the perception of the near-term prospects for the industry. The OESA Automotive

Tooling Barometer captures the sentiment of the major companies in this market.

Overall Shops' Capacities Around 80% Utilized

Subset of Mold Market Continues to Struggle to Stay Utilized





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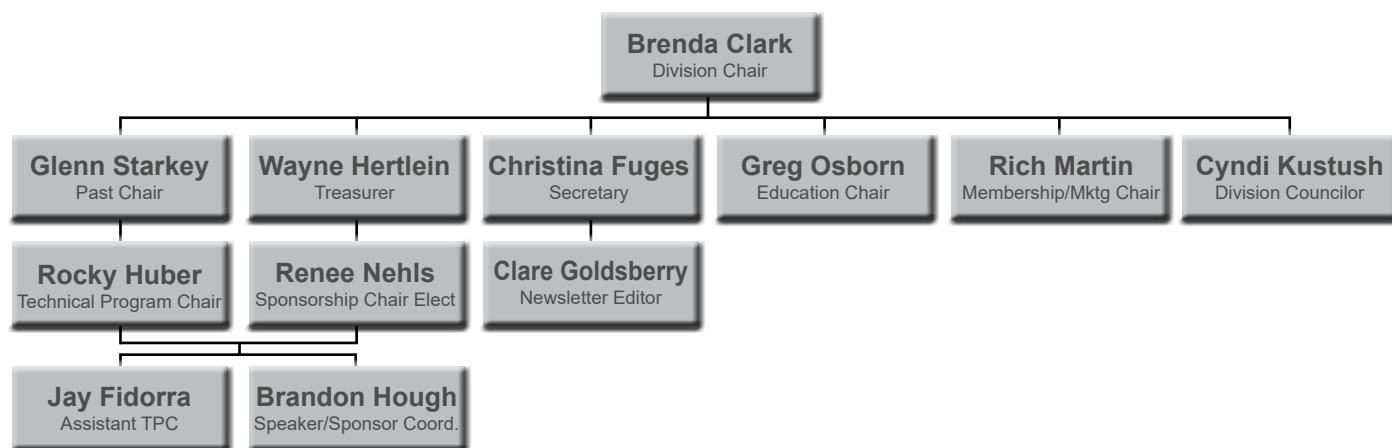


5



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OUR MISSION

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SPE Mold Technologies Division

August 30, 2017 Meeting Minutes

To: Board of Directors Mold Technologies Division SPE

From: Christina Fuges – Secretary to the Board

Subject: Minutes of the Meeting of the Board of Directors 30-August 2017

	Present	Absent		Present	Absent
Brenda Clark, Chair	X		Renee Nehls	X	
Glenn Starkey	X		Clare Goldsberry	X	
Wayne Hertlein	X		Jay Fidorra	X	
Christina Fuges		X	Rocky Huber	X	
Greg Osborn		X	Brandon Hough	X	
Cyndi Kustush	X		Richard Martin		X
Kathy Schacht	X				

1:35pm CST meeting called to order

Division Chair Report – Brenda Clark

- Opening comments: Welcome to the new year. Looking forward to a productive year ahead.
- Newsletter scheduled to go out, covering what her hopes and wishes are for the division.
- BOD roles and reviews: Glenn will be immediate past chair; Wayne is again treasurer; Christina continues as Secretary; Greg will be Minitec chair and work with Glenn on technical tours and other programming; Cyndi is councilor; Renee will be chair-elect; Clare will continue as newsletter editor; Brandon, Rocky and Jay working as TPCs as a team. Rich will handle marketing and membership, with Wayne as Division Historian.
- This year's goals: Include a plant tour in March. Also, Pinnacle Award with anticipation to achieve gold. Membership drive/strategies/marketing. Website development and ideas for stepping up efforts to benefit and attract members.

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Chair-Elect Report – Renee Nehls

- Nominations for Election: need to consider who we know who might want to join the board and become active in the division. Target end of this year to have some potential nominees, which will be voted on in January.
- Pinnacle: SPE looking to change the way this award is handled, but not until 2018.
- Website and LinkedIn: vehicles that we'll be addressing over the next few months.
- Glenn says the roster of officers will be forwarded to the board, so that everyone has the details on terms as well as contact info for everyone they are serving with.
- E-members are those who do not engage with a section or division, but once they engage at an event or at meetings, they will be converted into a paid member. Until then, they cannot run for any elected positions, per Kathy Schacht.

Secretary's Report – Christina Fuges

- None. Minutes were approved in July and accepted.

Treasurer's Report – Wayne Hertlein

- Brenda is now a second signer on the main bank account for MTD. Working to get her to also be a second signer for the ITQ account.
- Treasurer also presented the proposed budget for fiscal 17-18. Wayne made motion to accept as written, Renee seconds.
- Discussion: Cyndi inquired about proposed expenses for Councilor travel. All agree that the amount seems about right. Jay asks about NPE2018, Wayne says budget for exhibiting was increased from 1,000 to 2,000, not counting budget for ANTEC.
- Glenn asked if Rich or anyone contacted SPI about a space in the moldmaker's pavilion. Brenda says she hears it's sold out, but will see if anything could be done. She also mentions that

Rich has a trade show proposal for expenses on booth display. This is not included in the current budget.

- Glenn proposed bumping line item 34 from \$2,000 to \$5,000. Hearing no objection, Wayne amended his motion to accept the budget as amended; Jay seconded. No discussion, so call for the vote by Brenda. Passed unanimously. Wayne sent a revised, final copy of the budget to all (attached).

TPC/Minitec Report – Greg Osborn


- Greg plans to send new grant applications out in October for the 2017-18 year. He will submit this year's recipients for newsletter publication.
- TPC meeting will be held on Friday, September 15, at 1 p.m. CST. Both Brandon, Rocky and Jay are able to attend, as it will be via remote access (phone). Brenda will make sure the new TPC's names and emails are given to Scott at SPE, so that they receive meeting notices going forward.
- Desktop Metal, a desktop printing system, has a tabletop version for printing metal parts, price has come down drastically for next year's model. Printer system with a binder and then it goes through a furnace. It used to shrink 20 percent, but they claim they have figured out how to control the shrinkage. Looking to have this company present at ANTEC about this technology.





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- Brandon says he knows of some people he can reach out to about conformal cooling presentations at ANTEC. Will wait until after the TPC meeting to learn more about the process of securing speakers.
- Glenn and Brenda stressed that as ANTEC is happening during NPE, it should be much easier to find and secure speakers because everyone who's anyone will be there. Any potential speakers should be sent to Rocky and Brenda.

Division Councilor Report – Cyndi Kustush

- Council meeting: Aug. 25-26 in Detroit. Celebrated SPE anniversary. Brought to attention that at ANTEC, not very many technical papers were had. This coming ANTEC, corporate and commercial technical papers will be welcome but with certain

guidelines. SPE will also no longer have ownership of the papers and presentations, which has been tradition. This should make it easier for people to submit papers and know they can still use them elsewhere. But papers have to be technical in nature – no sales pitches. High-quality technical engineering content that will be reviewed in PPT format to ensure it's not a commercial.

- Pinnacle award: Format will be revised. This year still the same report, though slightly updated (access on Leadership Lane).
- Membership: SPE still losing membership in divisions and sections and also greatly in the student realm. Communication (personal contact) is essential. Every division and section must have a membership chair who can reach out personally

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to new and renewing members. Need also to help convert e-members over to paid members. The benefits are there, but we have to tell them. Also, a forum has been formed about ANTEC to gather ideas and recommendations for improving the process and the event.

- A Next Generation retreat was held for members 35 and under. It was successful. Talked about social media and other effective ways to communicate with this group.
- Rocky has a survey that might help us find out what members want and need in our organization that would help keep them as members and get them engaged.
- Pat Farrey, new SPE CEO, announced open door to any and all ideas for increasing membership and other SPE aspects.
- PlastiVan: Needs support/funding. Reaching quite a few high schools across the USA. Anyone that knows about a high school that would welcome PlastiVan, contact SPE. Great for students 12-16 years old.
- Next Council Meeting: December 15, remote.

Awards Chair Report— Wayne Hertlein

- Presented moldmaker of the year award to Andy Baker. He sent images and information for coverage in MMT and our newsletter.
- Talking to Glenn Beall about 70th anniversary and will report back when he knows more.
- Glenn and Wayne will meet soon to schedule out various upcoming awards for 2017-18.

Membership Chair Report – Rich Martin

- Already discussed ways we can try to increase membership. Survey could be included in the next NL. Rocky and GS to coordinate.

Sponsorship Chair Report – Renee Nehls

- Renee reports that MTD has collected \$5,875 so far for sponsorships—above budget. Has been

calling companies, and some said no, others not interested in renewing. She is stepping up her efforts to be more aggressive now, including calls to advertisers from a few years ago. Renee welcomes everyone on the board's efforts to find sponsors.

Newsletter Chair Report— Clare Goldsberry

- Clare and Glenn found someone who can help with formatting and publishing the newsletter going forward. Glenn is coordinating templates/graphics to be transferred to a new source, who he knows, for our layout and publishing services. He did get a few quotes for this work. We will present a plaque to Tammy Alongi as a thank you for her great work.
- Clare is looking for member news in particular from SPE member companies, but she doesn't have time to call everyone, so any suggestions for assistance is welcome. Rocky suggests sending emails via SPE; Renee adds that we should also remind sponsors that they need to include our division on their list for company news items. Free press!
- Cyndi and Renee will work up an email to send to current sponsors and request news items to be submitted by Sept. 15 for the next newsletter, with more scheduled to go out for future issues as well.

Marketing Chair Report—Rich Martin

- Rich is researching booth options, so discussion is tabled until he has completed his research and is ready to make a more formal proposal. One quote is received and some comparison pricing is requested.
- Glenn is considering a tech tour in North Carolina, with Carolina Section as partner. Targeting March 2018.
- Scheduling a breakout talk among Glenn, Brenda, Christina and Cyndi to discuss Mike Koebel trade fair.

New Business– Brenda Clark

- Brenda hooked up with Allan Lee from SPE HQ for information about the development of a micro-site for our division, which is a smaller website that's still attached to the SPE main website. Low hosting and migration costs – annual \$500 fee. SPE has a template for the website, and three SPE organizations have micro-sites already that we can review. If we move forward, Jay has offered to serve as our content manager and training is provided by SPE. It's a responsive site, so works for viewing on peripheral devices, unlimited content uploading, linking to technical questions from the Chain, etc.
- Also thinking about establishing a LinkedIn site for the division and networking it with the new micro-site.
- Brenda suggests starting the next meeting later, at 5 p.m. EST (4 p.m. CST).

Glenn motions to adjourn; Rocky seconds. Meeting adjourned at 3:35 p.m. EST (2:35 p.m. CST)

Next meeting:

Week of Oct. 23, 2017 - Jackie will send notice out as to exact date, but looking like Oct. 26th.

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Respectfully submitted,
Christina Fuges, Secretary to the Board

In-Mold Labeling Demand Increases in the U.S.

After a slow decade-long start, in-mold labeling and in-mold decorating is catching on among OEMs particularly in the food/beverage and consumer products markets. While this technology has many benefits (the label becomes part of the package

which prevents removal; mitigates counterfeiting; provides unique brand-ownership look, etc.) the downside is that the supply chain for implementing this technology is long.

Mold makers must get in at the very front-end of a pro-

gram involving in-mold labeling because the mold must be designed and built for the in-mold technology to include the automation that is required. One way mold makers can provide optimum design and reduce R&D cycle time is through the

"To solve the above problems, users can predict the in-mold dynamics through CAE simulation tools and optimize the product design according to the analysis results." Moldex3D is offering its latest version of this simulation (R15), which "can attain more accurate simulation results of the in-mold thin film temperature distribution, then simulate the filling temperature and velocity vector field. It can also predict ink washout based on the product's geometric properties.

"By analyzing the temperature field of the IMD process, users will be able to attain a better understanding of the mold temperature changes, cooling and volumetric shrinkage behaviors. According to the analysis results, users can then reduce product warpage and molding defects, and furthermore optimize product designs. In addition, Moldex3D exclusively supports boundary condition options in pre-processing procedures. It enables users to efficiently and easily process the mesh layer of decorative pieces. Also, the new "Wash-out index" feature enables product designers to accurately predict washout and ensures high-quality IMD products.

In the IMD case below, the product's set mold temperature is 80°C, and the melt temperature is 240°C. As shown in Fig. 1, the simulated melt front is consistent

with the experimental results. Next, we examine the temperature changes of the interface between the model and the IMD surface. Obvious heat hesitation



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is observed (Fig. 1), and the reason is poorer heat conduction of the decoration layer.

Since the IMD process include product surface processing and coloring procedures, many factors that occur in the mold could lead to product defects. Thus, users need to comprehensively understand the in-mold dynamic behaviors in order to avoid defective products. Moldex3D's new simulation capabilities cannot only meet the above demands, but also help tedious trial-and-error process, accelerate product innovation, and significantly reduce manufacturing time and costs.

Remember, any OEM wanting to have in-mold labeling or in-mold decorating as a part of their product must get the mold maker involved at the very beginning of the project, as well as the mold-maker, the injection molding machine maker, the automation supplier, and the label supplier/printer. While the up-front costs for IML/IMD are greater, the downstream costs are lessened in the form of reduced part handling, elimination of secondary operations, higher quality, and better brand identity.

Thanks to MoldEx3D for this contribution to the MTD Newsletter.

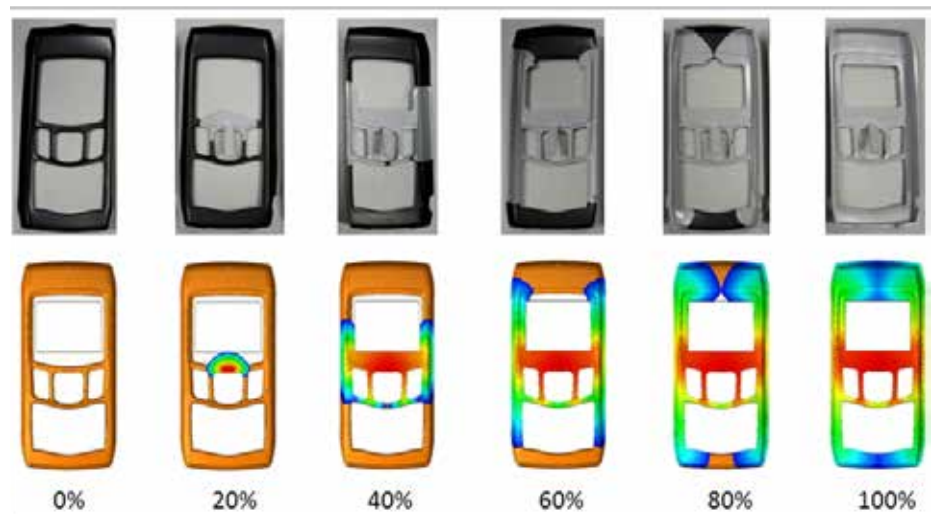


Fig. 1. The melt front time comparison between the simulated and experimental results.

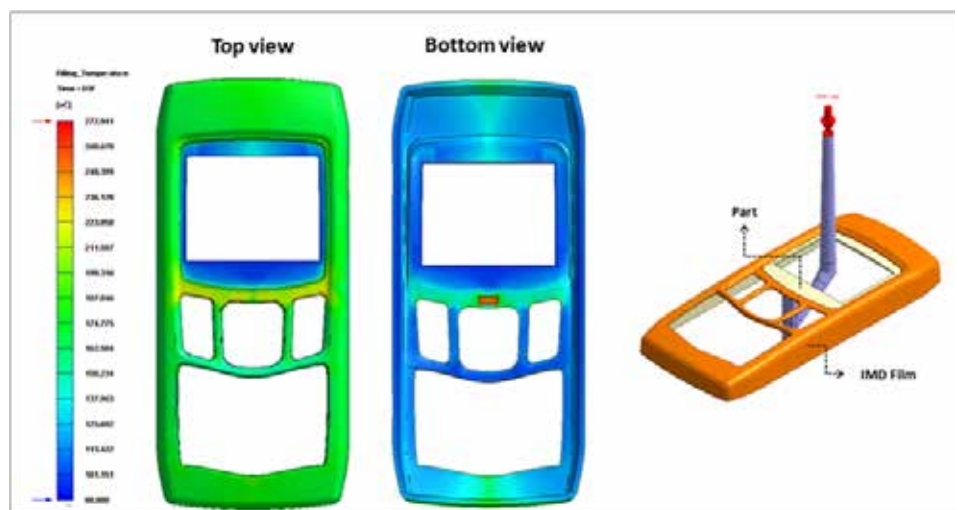


Fig. 2. The mold temperature distribution analysis of the IMD mold.

The pessimist sees difficulty in every opportunity.

The optimist sees the opportunity in every difficulty.

WINSTON CHURCHILL

2017 Moldmaker of the Year Award



Wayne Hertlein, Andy Baker (award Recipient) and Lary Shoemaker, Industrial Technology Education Instructor for Byron Center Public Schools Technical Education Department, receiving the check for \$500 donated by Andy Baker for Mold Maker of the year.

Andy Baker began as a toolmaker, mold designer, and has been the general manager for Byrne Tool, a division of Byrne Electric, for several years. Andy has had leadership roles in the AMBA both at the Chapter level (Southwest Michigan) and also at the national level. He has developed those in his team for the lead mold makers on projects who have now risen to being the customer contact -- not simply just tool making but seeing projects from the quoting stage through to going onsite at startup of the mold. Andy is quick to volunteer to test drive new certification curriculum and test, as well as sharing best practices to his colleagues in national forums.

2017 Mold Designer of the Year Award



Wayne Hertlein presents Renee Nehls with a plaque and a \$500 honorarium at the Amerimold Trade Show in June.

Renee Nehls, tooling engineer for injection molder Sussex IM, was honored by the SPE Mold Technologies Division as Mold Designer of the Year. Renee has had a 25-year career in the plastics tooling engineering segment including project management, mold design, product design and development and injection mold processing comprehension. Renee is active in the Society of Plastics Engineers and has served in many capacities including Board of Directors, Sponsorship Chair, House Committee Chair, and President of the Milwaukee Section.

Renee was presented with a \$500 honorarium to donate to the trade/technical school or university of her choice. She has chosen Waukesha Country Technical Collage as the recipient.

News from Our Sponsors:

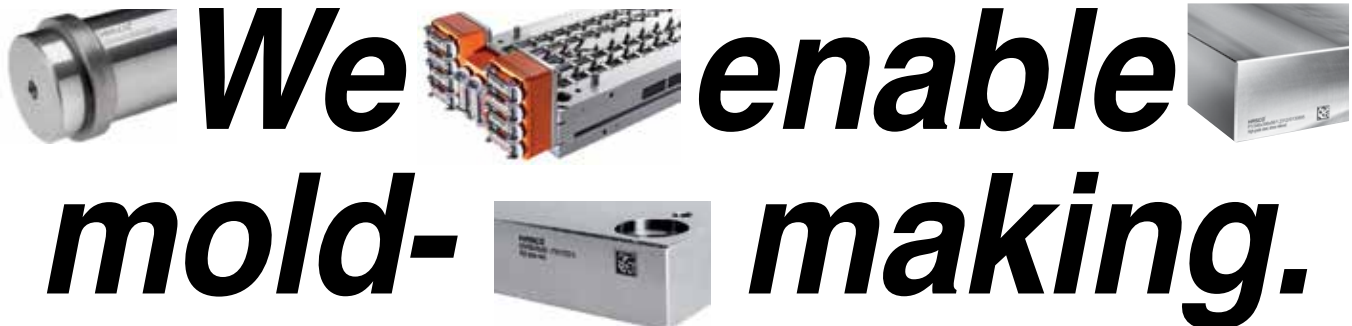
HASCO Moldmaking Assistant with New Configuration Layout Editor Now Online

Alongside its product and service innovations, HASCO now offers its customers one of the most modern and efficient portals in the industry, www.hasco.com. Through this portal customers can access all the company's products, innovations and services 24/7 from anywhere in the world.

One of the advantages of the modern web shop is the practical moldmaking assistant. It can be

called up directly on the start page and leads to a fully configured mold in only five steps.

HASCO has also extended the mold making assistant with an important additional feature, the layout editor. In addition to mold makers and designers, this opens up new possibilities for fast and easy designs. By simply dragging and dropping mold elements, the intuitively operated graphic



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surface allows the rapid configuration of molding tools, tailored to the respective application.

Graphic interaction guides the user through the configuration process. This makes the adding of the plates and stripper packages and the removal of mold elements from the mold layout fast and easy. Possible positions for mold parts are highlighted so that only feasible combinations of moldmaking elements can be created.

Added mold elements such as double ejector assemblies, riser packages and stripper blocks offer

the user further possibilities for even greater customization of the mold design. Single mold halves can also be configured with the new layout editor.

After producing the layout, the mold making process can be carried out with the mold making assistant in just a few steps, including full selection of the dimensions and materials, plus all components and accessory elements. The system automatically generates part-lists with individual cost calculation and offers the CAD data as a download in a variety of formats.

Progressive Components Releases ModuLifter™ Undercut Release System

Progressive Components announces the new ModuLifter™ Undercut Release System that simplifies the release of undercuts for large molds using a rod-style, standardized modular lifter assembly.

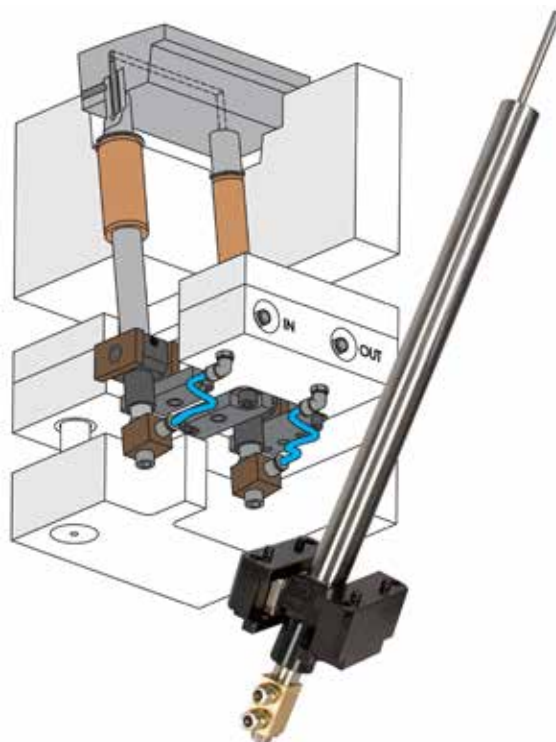
The ModuLifter consists of six different base sizes that accept rods from ½" to 1 ½" diameter.

Advantages include:

- Available with or without cooling, and hoses and fittings offered
- Acceleration/deceleration angles available in 5 and 10 degrees
- Off-the-shelf availability eliminates in-house design and manufacturing

"There are several different systems to address the numerous aspects of releasing undercuts," states Ken Rumore, engineering manager at Progressive Components. "With the ModuLifter, one system can be used for many scenarios, allowing assembly and maintenance personnel familiarity, consistency and efficiency with their mold maintenance plans."

Visit Progressive Components online at www.procomps.com or call 1-847-1000 for more information.



Honoring Excellence in Mold Manufacturing

Contributed by Christina M. Fuges

Each year, the moldmaking industry recognizes outstanding performance and innovation with Mold-Making Technology's Leadtime Leader Award, and 2018 marks the Award's 15th anniversary.

Leadtime is the culmination of the entire mold manufacturing process. A quality mold that is delivered on-time is the result of a team of professionals working together from sales, design and manufacturing to validation, delivery and support. MoldMaking Technology created this competition to share best practices and to recognize those mold manufacturers who are excelling in customer satisfaction, workforce development, industry involvement, continual improvement, business growth, technology, competitive advantage and more.

"It's not just about whether your shop has the shortest delivery times," said Fuges. It's about what you do with what you have."

MoldMaking Technology is looking for companies that perform beyond the status quo and for companies that use any and all available resources. This competition is about capitalizing on what you have to build the best molds for customers while keeping costs fair and meeting deliveries. This competition is not about being the biggest, fanciest shop. It's about working efficiently and

intelligently, and it's about demonstrating the passion that you have for your craft.

Any shop that performs moldmaking operations is eligible to compete. Shops are encouraged to enter online before the end of the year – Deadline: December 29, 2017. The shops that Mold-Making Technology has honored in the past have gone that extra mile: completing the main entry form fully and with detail, then they went a step further by including a PowerPoint presentation, photographs, employee input and videos in addition to the form. They also expressed very clearly a passion for their work and a desire to win!

Winning shops are photographed for the cover of our June issue, they are featured in the cover story, and they are filmed for a video piece that accompanies the feature article. Winners also enjoy an awards presentation ceremony and celebration at Amerimold in addition to a complimentary, 10-foot x 10-foot booth.

Visit <https://www.moldmakingtechnology.com/zones/leadtime-leader> to read about past winners, get a virtual look inside winning shops, check out benefits and rewards, learn about the criteria, comb through some FAQs, review the Questionnaire, and nominate your show today!

Deadline: December 29, 2017

Mark Your Calendar:

ANTEC / NPE: May 7-9 2018

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:

Clare Goldsberry, Newsletter Editor | Renee Nehls, Sponsorship Chair
602-996-6499 | clarewrite@aol.com | 262-820-2112 | rnehls@sussexim.com

Publication Release Dates

Fall Issue
October 2017

Winter Issue
January 2018

Spring Issue
March 2018

Summer Issue
June 2018

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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

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- 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
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- Company logo displayed at SPE events

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- 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